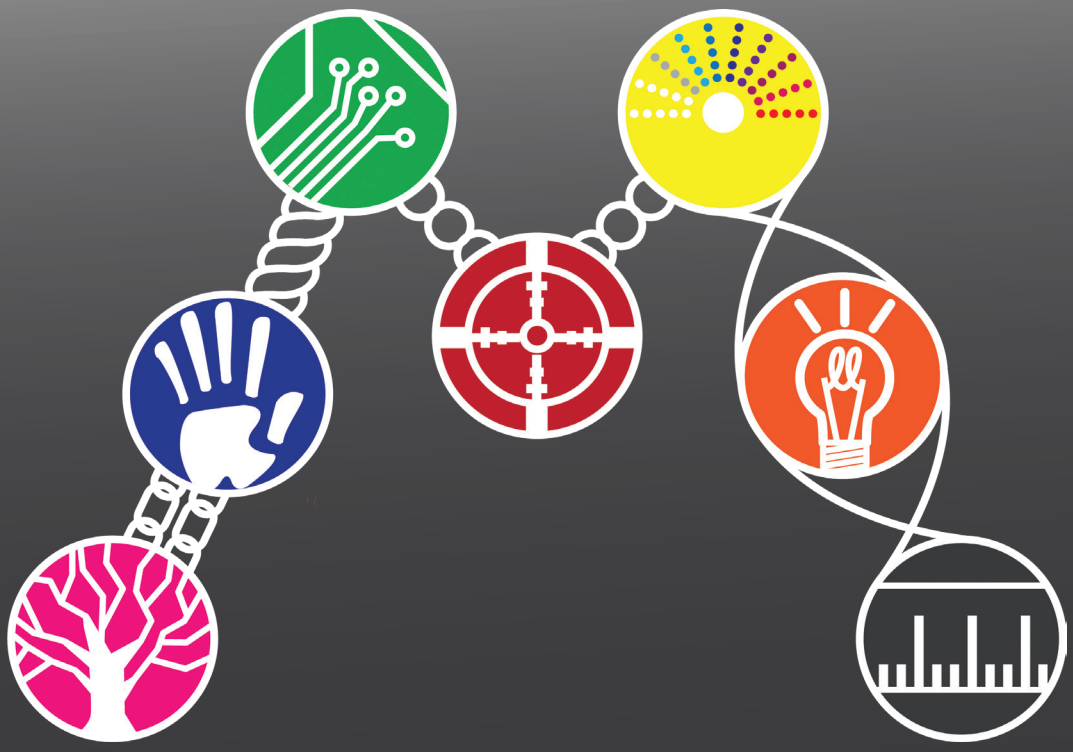

MEETINGS

MAKING SCIENCE, TECHNOLOGY AND SOCIETY TOGETHER

EASST2018 Conference 25-28th July 2018, Lancaster University

Sociology | Lancaster University

easst

Centre for Science Studies

WEDNESDAY 25 JULY	
10:30-17:20	Registration desk open *(LICA)*
10:00-12:00	'Meeting Soil' campus trip (meet at the Chaplaincy Centre, south side)
13:00-14:30	Session 1
14:30-15:00	Refreshments *(LICA)*
15:00-16:30	Session 2
15:00-16:30	Sub-plenary: Meeting Frankenstein *(Great Hall)*
17:00-18:30	Plenary 1: Meeting Soil *(Great Hall)*
18:45-19:15	Millennium Choir Performance: Frankenstein *(Great Hall)*
18:35-19:45	Welcome drinks *(LICA)*

THURSDAY 26 JULY	
08:00-15:45	Registration desk open *(LICA)*
08:00-08:45	'Meeting Chi' (*Lancaster Square or, if raining, in Minor Hall*)
09:00-10:30	Session 3
10:30-11:00	Refreshments (*LICA*)
11:00-12:30	Session 4
12:30-14:00	Lunch (*LICA*)
12:30-14:00	'Meeting Energy' campus trip (*meet at the Chaplaincy Centre, south side*)
12:30-14:00	German Association of STS meeting (*Marketplace*)
12:30-14:00	*Science and Technology Studies* Journal Board meeting (*Bowland North Seminar Room 2*)
12:30-14:00	EASST Review Editorial Board meeting (*FASS meeting room 1*)
14:00-15:30	Session 5
17:00-17:30	Doors open for Plenary 2 (*at the Town Hall, in City centre*)
17:30-19:00	Plenary 2: Meeting Energy (*at the Town Hall, in City centre*)

FRIDAY 27 JULY	
08:15-17:00	Registration desk open (*LICA*)
08:00-08:45	'Meeting Chi' (*Lancaster Square or, if raining, in Minor Hall*)
09:00-10:30	Session 6
10:30-11:00	Refreshments *(LICA)*
11:00-12:30	Session 7
12:30-14:00	Lunch (*LICA*)
12:30-14:00	'Meeting Machines' campus trip (*meet at the Chaplaincy Centre, south side*)
12:30-14:00	Launch Special Issue Pedagogical experiments with STS
12:30-14:00	Journal *Science as Culture* Advisory Panel meeting (*FASS meeting room 1*)
14:00-15:30	Session 8
15:30-16:00	Refreshments (*LICA*)
16:00-17:30	Session 9
17:45-19:00	EASST General Meeting & Awards Ceremony (*Great Hall*)
19:00-24:00	VERTEX Social event (*Lancaster Square*)

SATURDAY 28 JULY	
08:00-08:45	'Meeting Chi' (*Lancaster Square or, if raining, in Minor Hall*)
09:00-14:15	Registration desk open (*LICA*)
09:30-11:00	Session 10
11:00-11:30	Refreshments (*LICA*)
11:30-13:00	Session 11
13:00-14:00	Lunch (*LICA*)
14:00-15:30	Plenary 3: Meeting Machines (*Great Hall*)
15:30-16:30	Closing drinks reception (*LICA*)

MEETINGS

MAKING SCIENCE, TECHNOLOGY AND SOCIETY TOGETHER

European Association for the Study of Science and Technology (EASST) Conference,
Lancaster University, Lancaster, U.K., 25-28th July 2018

ROWMAN & LITTLEFIELD INTERNATIONAL

The Guardian
S&T Policy Blog

*As*SIST-uk
Association for Studies in Innovation Science and Technology-UK

EASST2018 Local Committee

Vicky Singleton (Centre for Science Studies/Centre for Gender and Women's Studies/Department of Sociology), Richard Tutton (Centre for Science Studies/Department of Sociology/Institute for Social Futures), co-chairs

Brian Bloomfield (Centre for Science Studies/ Department for Organization, Work and Technology), Dawn Goodwin (Centre for Science Studies/Division of Medicine), Adrian Mackenzie (Centre for Science Studies/Department of Sociology/Data Science Institute), Nils Markusson (Lancaster Environment Centre), Maureen McNeil (Centre for Science Studies/Centre for Gender and Women's Studies/Department of Sociology), Maggie Mort (Centre for Science Studies/Department of Sociology), Victoria Neumann (School of Computing and Communications), Celia Roberts (Centre for Science Studies/Centre for Gender and Women's Studies/Department of Sociology), Lucy Suchman (Centre for Science Studies/Centre for Gender and Women's Studies/Department of Sociology), Bron Szerszynski (Centre for the Study of Environmental Change /Department of Sociology), Gordon Walker (Lancaster Environment Centre/ESRC DEMAND), Claire Waterton (Centre for the Study of Environmental Change/Department of Sociology), Lisa Wood (Centre for Science Studies/Division of Medicine), Andy Yuille (Department of Sociology)

EASST2018 Programme Committee

Dawn Goodwin Gordon Walker, co-chairs

Attila Bruni, Jane Calvert, Endre Dányi, Miquel Domenech, Ulrike Felt, Kat Jungnickel, Kornelia Konrad, Allison Loconto, Jeanette Pols, Tereza Stöckelova, Goran Sundquivst, Carsten Timmerman, David Tyfield, Roz Williams

EASST Council

Ulrike Felt (President), Sarah de Rijcke (Treasurer), Attila Bruni, Justiina Dahl, Miquel Domènech, Dara Ivanova, Aleksandra Lis, Kalpana Shankar, Vicky Singleton, Salla Sariola, Ignacio Farias, Ingmar Lippert, Richard Tutton

Conference administrators

NomadIT: Eli Bugler, James Howard, Saskia Lillepuu, Rohan Jackson, Elaine Morley, Triinu Mets

Acknowledgements for financial and institutional support

For financial support: AsSIST-UK, The Guardian S&T Policy Blog, Rowman & Littlefield International

Thank you to cooperating local partners: Hilary Barraclough (Conference and Events Manager), and the many people in Lancaster University's Facilities and ISS (Information Systems Services) teams that helped out, to Jon Sear (transport consultant), Stagecoach, and Lancaster Business Improvement District

Wifi

You can connect to Eduroam using your home credentials, or connect to the LU Visitor network and follow the instructions which load in your browser.

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Panel grid ..... inside rear cover

Map of venues and events ..... outside rear cover

WELCOME

Welcome from the EASST President

It is my great pleasure to open the programme for the 18th EASST conference, 35 years after the association had its first meeting in London. The theme of this year's gathering is 'meetings'. It encourages us to explore how we can make science and technology studies together within the new world orderings that are creating divisions and seeking to undo many relations and connections that have helped to stabilise and improve the worlds we live in. In the face of new, often exclusionary and destructive, alliances, the EASST 2018 Conference will explicitly promote and celebrate meetings between, and differences within, the cultural and intellectual constituencies of STS but also engaging in togetherness well beyond our field's boundaries. Unfortunately, some will not be here with us, as visa granting authorities might not share our sense of the importance of meetings. This makes it all the more central, to reflect and cherish the possibilities 'meetings' offer in our efforts to think and shape the socio-technical/scientific futures seen worth attaining.

This year, thanks to the efforts of a group of colleagues at the Centre for Science Studies and across Europe, we are coming together in Lancaster to enjoy four days of varied intellectual, social and cultural engagements. Whether this is your first ever EASST conference or your eighteenth, I hope you will enjoy your time here. It is clear that interest in STS continues to grow as this is the largest EASST only conference to date, and the Local Organizing Committee have worked hard to craft a programme, which reflects the commitment of STS to reach out to different fields of scholarship and diverse ways of engaging with and intervening in the world. You can look forward to a set of rich and diverse presentations, to enjoying the multiple meetings in between the sessions and to engaging in stimulating co-thinking.

I warmly invite you to join us on Friday afternoon (17:45-19:00 in the Great Hall) for the EASST Awards Plenary, during which we will take the opportunity to recognize those colleagues who have made significant contributions to the field of STS. But EASST Awards do not solely recognize outstanding scholarship, we also want to convey a special message: at times when our academic environments become ever more competitive we want to give recognition to collaborative work through the Amsterdamska and Freeman awards and to highlight the importance of new forms of engagement with communities beyond our academic boundaries with our Ziman award.

It was a pleasure for the EASST council and in particular for me as president, to see the many transformations from first ideas to their manifold realisations. On behalf of the EASST council, I wish to express my deep gratitude to the Local Organizing Committee and the Programme committee, who have worked with tremendous commitment and care to host us and to provide a rich, inclusive and stimulating programme of events and activities. Thank you so much!

Professor Ulrike Felt,
President of EASST,

University of Vienna

Welcome from the Local Organizing Committee

Welcome!

The Local Organizing Committee warmly welcome you to Lancaster University for the EASST 2018 Conference. This is the largest ever EASST conference and we are excited about the four days that we are about to spend together, learning about each other's work and participating in the various activities and events on offer.

We began our conversation with EASST Council about hosting a conference back in 2012. Today, in 2018, we find ourselves in a very different world to that time, but one where we are even more strongly committed to a distinctively European STS that looks beyond its own borders and creates opportunities for connection. This commitment shaped the conference theme – Meetings: Making Science, Technology and Society Together.

The Centre for Science Studies (CSS) is hosting the conference; founded in 1986 it has a long-standing reputation for interdisciplinary research across the boundaries of science, technology, and public policy. The Centre brings together research and teaching within four key areas: health, technology and medicine; data cultures; energy and environment; and disasters and futures. It is a particularly strong hub for feminist STS. The Centre and its members have benefitted from the existence of EASST over many years and we are very happy to have this opportunity to support the aims of EASST, and to give something back to the European STS community.

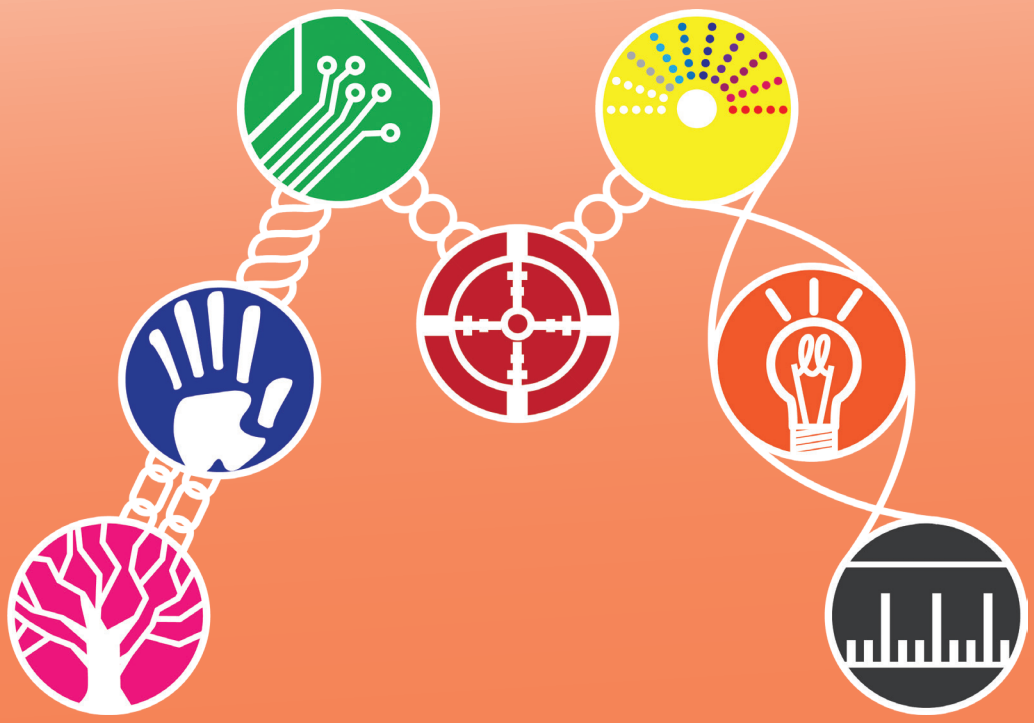
We hope that you enjoy the historic city of Lancaster. It is a beautiful city, the imposing castle situated at its heart dates back to the 12th century. Quakerism, also known as The Religious Society of Friends, began in mid-17th century Lancashire. This movement has a long-standing association with Lancaster, and with 'meetings' as transformative encounters. Small groups of 'Seekers' came together in Meeting Houses to look for a sense of connection, openness to insights and creative responses. Lancaster's Friends Meeting House, on Meeting House Lane close to the train station, was built in 1708.

Organizing the conference has been a large undertaking and a necessarily collaborative endeavour. Led by Vicky Singleton and Richard Tutton, the members of the Local Organising Committee have weaved our way through the trials, tribulations and excitements of materialising the Conference. Here we would like to acknowledge the work of the members of the Programme Committee, skilfully chaired by Dawn Goodwin and Gordon Walker, who reviewed panel abstract submissions. We also wish to acknowledge the tireless efforts of Andy Yuille, our local conference administrator. Triinu, Rohan, Elaine, James, Eli and Saskia at NomadIT have provided huge support to ensure the conference is a success, and so has Hilary Barraclough at Lancaster University's Conference Office.

Finally, we would also like to warmly thank the support we have received from the EASST Council; Andrew Webster, at ASSIST-UK; the Dean of the Faculty of Arts and Social Sciences, Simon Guy; and Corinne May-Chahal, the Head of the Department of Sociology at Lancaster University.

The Local Organizing Committee for EASST 2018

MEETING HOUSE LANE



EASST2018 CONFERENCE THEME

MEETINGS

MAKING SCIENCE, TECHNOLOGY AND SOCIETY TOGETHER

In March 2017 the Local Organising Committee met with the aim of identifying the conference theme. While pondering how to avoid the interminable tedium of meetings, we realised we had our theme – to celebrate meetings, to reclaim meetings not as monotonous exercises but as spirited encounters. We turned to the Oxford English Dictionary and came to realize that 'meetings' captured many of the things that are most important to us.

The word 'meeting' contains rich and diverse meanings. In English we find the following: an act or process of joining or coming together of people or things; an intersection or confluence; an encounter; an assembly; a place and time for discussion or decision; a space for dissent, battle, entertainment or contest; and (archaically) a unit of measurement.

Meetings has critical resonance at this time. Political and social forces - such as Brexit, Trump's Presidency in the US, the rise in support for PVV in the Netherlands and for Front Nationale in France - seek to undo many relations and connections and to establish new, often exclusionary and destructive, alliances. That is, the politics of meetings is not a choice between doing or not doing relations, but rather to think about which actors meet and how, and to curate meetings that make some things present and other things absent. In this context, and in step with many other progressive responses, the EASST 2018 Conference will explicitly bring together, promote and celebrate meetings between, and differences within, the cultural and intellectual constituencies of STS.

STS is located at the connexions of people, things and values. It is engaged with our sociotechnical lives and explores our interdependencies with multiple others. Preoccupations with logic and epistemology in early STS have been mixed with an intensified concern with aesthetics, values, ontologies, politics and emotions. Our conference theme promotes generative mixing through meetings in all senses of this word: as a practical activity, a substantive topic, a political engagement and as theoretical exploration. By doing so, we hope to open up ways to imagine how things within STS and in our social and political lives can be otherwise.

Given the theme of meetings, we decided to 'un-structure' the conference and we identified a series of streams that built upon the etymology of the word meetings in STS inflected ways. Our aim is that we will each encounter STS work in many different contexts as we seek analytic, critical and practical engagement with the theme of meetings. So, we invited you to think about your contribution in response to the following streams.

Encounters between people, things and environments

Art and craft of joining and keeping things together

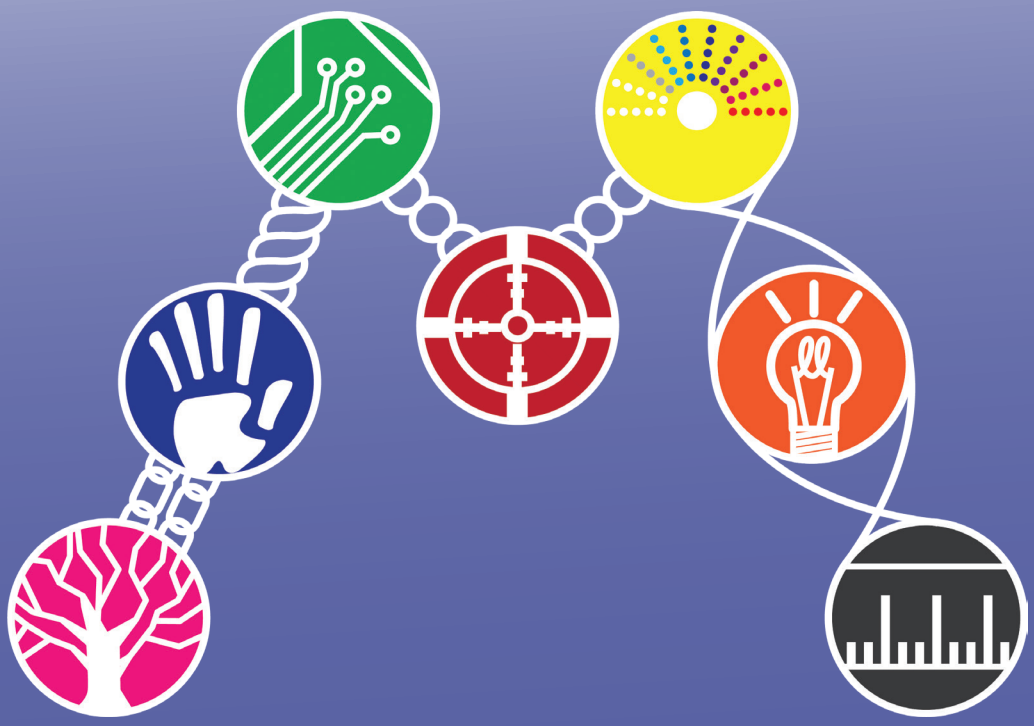
Confluence, collaboration and intersection

Conflict, dissolution, contest

Assembly, silence, dissent

Discovery, discussion and decision

Measurement, commensuration, markets and values



PRACTICAL INFORMATION

Using this programme

The general daily timetable on the inside front cover gives the times of the plenaries, panel sessions and other main events, so this is the easiest to find (though not detailed) key on what happens when. For the timings of specific panels, consult the ***Programme schedule*** which shows what is happening chronologically, or the ***List of panels*** which lists panels by stream and reference, while also showing locations and convenors. For a birds-eye view of which panels in which thematic streams are happening when, see the grid on the rear inside cover. The map on the outside rear cover shows the main locations of the conference activities. The **Practical information** and **Lancaster guide** aim to help you with the practicalities of being in Lancaster this week: how the conference works, which venues we are using, how to find food etc. The ***Events and meetings*** section informs you of all the activities that are going on this week outside of the core academic programme, including the reception, banquet and other meetings. The ***Plenary schedule***, ***Programme schedule***, ***List of panels*** and the full set of ***Paper abstracts*** follow, which should allow you to navigate the content of the conference. Finally, at the end of the book there is the ***List of participants*** to help you identify the panels in which particular colleagues will present their work. If you need any help interpreting the information in the conference book, please ask one of the conference team at the reception desk.

Timing of panels and individual papers

Eleven 90-minute panel sessions have been scheduled from 25 to 28 July, with two sessions on Wednesday and Saturday, three sessions on Thursday and four on Friday. We are using up to 22 panel rooms at a time, so any one panel is up against that number of alternatives. For the timings of specific panels, consult the *Programme schedule* that shows what is happening chronologically, or the *List of plenaries and panels* that lists panels by reference, while also showing locations and convenors.

In order to improve the conference experience for those delegates who like to panel-hop, convenors were asked to indicate the distribution of papers across the panel sessions and we've marked those session breaks in the printed (but not online) programme. We have asked panel convenors **not** to subsequently alter the order and if someone withdraws last-minute, we ask that you all have the patience to then either have discussion in the 'spare time' or a break, and hence retain papers in the allocated sessions.

EASST2018 conference venues

EASST2018 Conference takes place on the beautiful green campus of Lancaster University. The two main hubs of conference life will be **LICA** and the **Great Hall**. Both buildings are located towards the north of the Lancaster University campus.

Nestled in the wooded area of the campus and accessed via a footbridge across the pond, LICA - Lancaster Institute for the Contemporary Arts Building - is a 'BREEAM Outstanding' building, built with sustainability at the heart of its ethos. This is where **Registration desks** will be, as well as the **Book exhibit**, and the **coffee breaks** and **lunches** will be served here. The Welcome drinks on the opening night, as well as the Closing drinks reception on Saturday will both take place in LICA.

On Friday night, the social event VERTEX with food, drinks and music will take place on the Lancaster Square outside of LICA.

The Great Hall Complex stands close to LICA and its large hall will the **location for three plenary events**: Meeting Soil and Meeting Frankenstein on Wednesday, and Meeting Machines on Saturday. The EASST General Meeting & Awards Ceremony on Thursday will also be held in the Great Hall.

Meeting Energy plenary on Thursday will be the only conference event taking place off-campus, at Lancaster's Edwardian Town Hall (Dalton Square, LA1 1PJ) complete with a grand organ and a sprung dance floor!

Conference **panels, workshops and meetings** will be spread over various buildings in the North Campus, all within close proximity of each other, LICA and the Great Hall: Bowland Main, Bowland Hall, Bowland North, the Faraday Complex, FASS (Faculty of Arts and Social Sciences), County College South.

Catering

All conference catering endeavours are mindful of the dietary requirements you indicated when registering for the conference (vegan, vegetarian, food allergies), and food will be labelled accordingly. Conference registration includes coffee/tea during two refreshment breaks each day except Wednesday (with just one) and lunch on Thursday, Friday and Saturday.
Refreshments and lunch will be served in LICA.

VERTEX – the social event on Lancaster Square (next to LICA building)
The square is the centre of social life, where public meets private, local meets exotic, familiar meets strange. If you have registered for VERTEX, you will have a cutlery icon on you delegate badge. Be sure to bring the badge with you and join us in Lancaster Square from 19:00 till midnight on Friday 27 July for an evening of meetings – encounters with local food fused with distant flavours, local ales and conference cocktails, and local music and DJs.

Recycling

NomadIT re-uses the plastic badge holders and lanyards, so please hand these in at the boxes provided on the Reception desk, at the banquet, the farewell drinks, or to a member of the conference team when leaving the conference for the final time. This saves resources and helps keep registration fees to a minimum. With similar concern for the environment, we ask delegates to use the recycling bins for paper and plastic.

Reception desk, EASST2018 conference team, NomadIT office

The Reception desk will be located in LICA, near catering space and the Book exhibit. On arrival at the Reception desk you will have been given this book and your conference badge. There is a team of helpful volunteers, familiar with the programme, the venue and the surrounding area, that you can turn to when in need of assistance. The volunteer team members can be identified by their conference t-shirts. If you cannot see a team member, please ask for help at the Reception desk.

Reception desk opening hours

Wednesday	10:30-17:20
Thursday	08:00-15:45
Friday	08:15-17:00
Saturday	09:00-14:15

All financial arrangements must be dealt with in the Conference organisers' (NomadIT) office located in room A06 in LICA building, close to the Reception desk.

NomadIT office opening hours

Wednesday	10:30-13:30	14:00-17:30	
Thursday	08:00-12:00	12:30-15:45	15:30-17:30
Friday	08:15-12:00	12:30-15:00	
Saturday	09:00-12:00	12:30-15:00	

Emergency contact details

During the Conference, emergency messages should be sent to conference@easst.net, with subject line starting **URGENT**

Triinu Mets (NomadIT) can be contacted in emergency situations on
+447482613951

Printing

If you need to print a short paper, boarding pass or other (short) documents, you can do it for 20p (yes, 20p - we like trees) a page in NomadIT office (A06 in LICA building).

Library and fitness

All delegates needing some peace and quiet for working are welcome to visit the Lancaster University Library (Lancaster, LA1 4YH) located off the square in the centre of the University. It is open Monday 23 July 2018 – Friday 27 July from 08:00 to 22:00 and 10:00 to 17:00 on Saturday 28 July.

All those keen on exercising/walking/swimming should check out the following sites about facilties on campus:
Sports Centre http://www.lancaster.ac.uk/sport/sports-centre/classes/
Woodland Walk & Trim Trail http://www.lancaster.ac.uk/media/lancaster-university/content-assets/documents/sports/WoodlandWalks&TrimTrailLeaflet.pdf
And in town:
https://www.lancaster.gov.uk/salt-ayre-leisure-centre/salt-ayre-swimming-pool
https://www.dayoutwiththekids.co.uk/things-to-do/north-west/lancashire/lancaster/water/swimming-pools-leisure-centres

Wifi

You can connect to Eduroam using your home credentials, or connect to the LU Visitor network and follow the instructions which load in your browser.

Food and drink on campus

Some of the campus bars marked on the map will be open during the conference, serving teas, coffees and alcoholic drinks. The Great Hall bar will be open daily until early evening, and the County College Bar 'The Northern Oak', will be open 17:00 – 23:00. Both of these bars are close to the buildings used for panels and plenaries.

The Herdwick (Graduate College bar) is located near Cartmel College, where most conference campus accommodation is found (see map on page 18), and will be open until 23:00 each evening. Fylde College bar, south of Alexandra Square, will also be open throughout the conference. There will be a free music night at Barker House Farm in Cartmel College on Thursday, where you will also be able to buy bar food.

Some of the commercial catering outlets will be open during the conference, including Sultans, Ketcap, Go Burrito, the Wok Inn and mini-supermarket Spar in Edward Roberts Court; Walling's Ice Cream shop and the Juicafe, Costa and Greggs in Alexandra Square; and Subway just North of Alexandra Square and Café Republic on the South Spine.

Pre-booked meals
For those who have pre-booked dinners before the conference, the meals will be served from 6.30pm – 8pm at The Marketplace (County South Building), which is marked on the map in the conference programme, and is between the Great Hall and Lancaster Square. **You will be emailed confirmation of payment, which you must print out and bring with you each night that you eat on campus.** Meal options will vary each night, but our sample menu includes: Beef Lasagne, Vegetable Lasagne (V), Chicken and Chorizo Casserole, Vegetable Casserole (V), Lamb Hotpot, Spiced Mushroom and Lentil Hotpot (V), Chicken Arabiatta, Ratatouille and Basil Pesto Pasta Bake (V), Salmon and Broccoli Lasagne, Wild Mushroom Risotto with Parmesan Cheese (V).
These will be served with accompaniments such as: Garlic Bread, Crunchy Coleslaw, Tomato and Basil Salad, Mixed Leaves, Herby dumplings, Crusty Bread, Red Cabbage, Pickled Onions, Mushy Peas, New Potato Salad, Tomato and Mozzarella Salad, and Cous Cous. They will be finished off with a selection of homemade mini cakes and fresh fruit, tea, coffee and orange juice.

Getting around in Lancaster

Money
The currency in the UK is pound sterling (GBP/£). Most shops, hotels and restaurants accept Mastercard, Eurocard, Visa etc, but not all businesses are equipped with this option and it is recommended to have some cash on you for quick purchases. There are plenty of ATMs in the centre and several on campus, not far from LICA/Great Hall (see the map).There is a eurochange currency exchange office at Marketgate Shopping Centre (Lancashire LA1 1JF - from the Market Square entrance the 4th store on the left).

Getting around in Lancaster
Bus travel between the campus and town is included in the price of conference registration. Delegates will be emailed with details of the arrangements made with Stagecoach, the local bus company, for travel over the conference period. Buses between the town centre and the campus are frequent, and additional services will be laid on for peak times of conference travel.
The information below relates to the regular bus services operating in Lancaster. More information about how the additional services provided for the conference will operate is provided on the conference website under 'travel'.

In the City: The bus station is situated on Damside Street in the city centre. Buses **(services U2, U3, U3R, U4, X3, 41, 42)** leave for the University frequently and most services also stop at Common Garden Street. The **U3R bus service** runs every 30 minutes between the Railway Station and the University (Monday to Saturday daytimes; hourly on Sunday evenings with the **X3** service from 20:15).

On Campus: All buses drop off and collect passengers in the Underpass, situated underneath Alexandra Square in the centre of campus. Additionally, services U3, U3R, U4, 41 and 42 serve the southern perimeter road and South West Campus. There are also bus stops directly outside the Sports Centre on the main drive.

Routes U3, U3R, 40, 41, 42, and X3 run direct between town and campus, taking 10-15 minutes. Other routes go via Hala or Bowerham, which takes an additional 10-15 minutes.

For further bus information please use the Transport Hub in **iLancaster** or call 'Traveline' on 0871 200 22 33. Alternatively, visit the **Stagecoach website** for current timetables and further information.

You can find a route map at https://tiscon-maps-stagecoachbus.s3.amazonaws.com/ZoneMaps/Cumbria/CNL_Lancaster_Guide_Map_Greyhound_Bridge.pdf.

Taxis
A taxi to campus from town centre will be less than £10. N.B.: Most taxis will not take card payments so you will need cash!
Taxi ranks approved by the local authority are available on campus at the following locations:

Bowland Avenue South outside the Chaplaincy Centre
Perimeter Road outside the main entrance to the Management School
Alexandra Park Drive by the Lonsdale College Bus Stop

Taxi Ranks are available in Lancaster beside the Bus Station on Damside Street, at Lancaster Railway Station and at other locations throughout the city centre. The full list of local taxi ranks can be seen here:

http://www.lancaster.ac.uk/media/lancaster-university/content-assets/documents/facilities/car-parking-policy/LancasterandMorecambeTaxiRanksAug2016.pdf

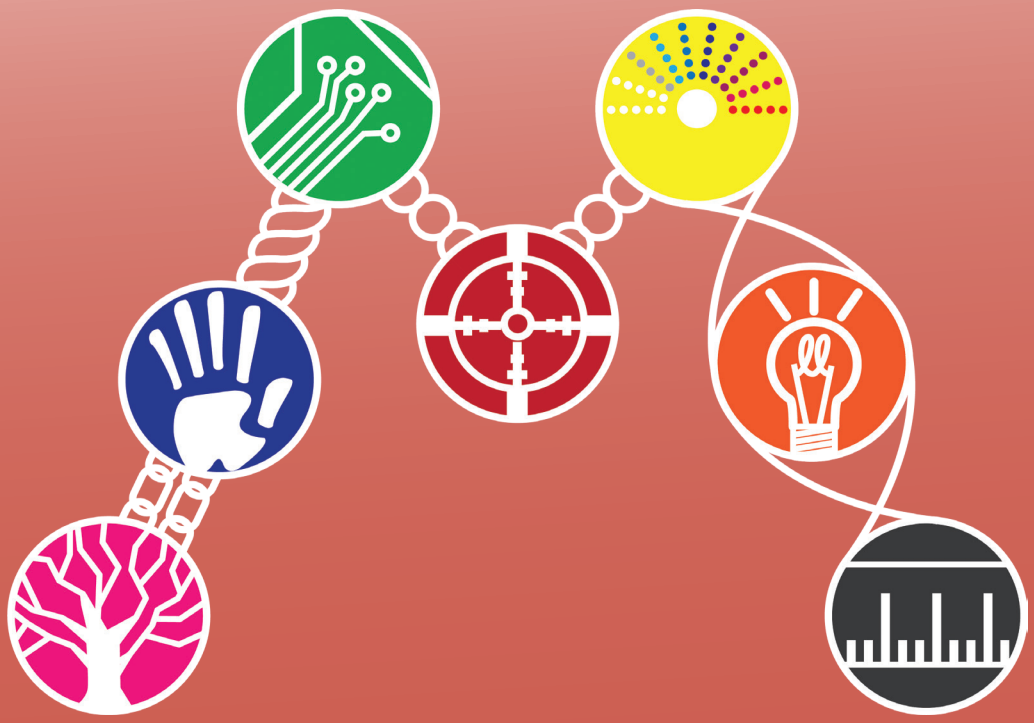
Local Taxi operators

Radio Taxis: +441524 848848
32090 Taxis: +441524 32090
Coastal Taxis: +441524 60000
A1 Taxis: +441524 35666

Parking in Lancaster
Parking in Lancaster Town Centre is restricted in most areas, and the central area is pedestrianised, but there are many car parks around the town centre. A map of council car parks, with charges and other information, can be found at https://www.lancaster.gov.uk/parking/car-parks. The other major 24 hour car park is Parksafe http://www.parksafesystems.com/lancaster.html

Lancaster by bike
Bikes can be hired from Leisure Lakes Bikes in the town centre (103 Penny Street, Lancaster, LA1 1XN, https://www.leisurelakesbikes.com/location/store/lancaster/) – although they currently only have 15 in stock, so you may need to book quickly! Lancaster was a designated 'cycling demonstration town' with good cycling connections from the university to town, and beyond to the countryside and coast. Walking and cycling route maps are available at http://www.lancaster.ac.uk/sustainability/sustainability-practice/environmental-management/commuting-to-campus/cycling/

MAP OF ACCOMMODATION



LANCASTER GUIDE

Overview

By Ben Johnson (https://www.historic-uk.com/HistoryMagazine/DestinationsUK/Lancaster/)

Lancaster, the county town of Lancashire, lies on the River Lune, three miles inland from the coastal resort of Morecambe, easily accessible from the M6 motorway and en route to the Lake District, 20 miles to the north. The Forest of Bowland, an area of outstanding natural beauty, lies to the east of the city.

Lancaster has a fascinating, varied and ancient history, with royal connections. The Romans established a garrison on the hill by the river. The city's first recorded name, Lancastre, meaning 'Roman fort on the River Lune' is recorded in the Domesday book in 1086.

Of national importance is Lancaster Castle, a Grade 1 listed building which sits in the centre of the city on a hilltop on the site of three successive Roman forts. It is a must for any visitor. The Normans began its construction in the 11th century for defence against the Scots, and it was further fortified and expanded over time. Some notable additions to the structure include the 12th century keep (later raised in height and substance by Queen Elizabeth I in the 16th century as a possible defence against the

Spanish Armada), and the 14th century witches tower and gateway. There was further strengthening of the Castle in the 15th century by John O'Gaunt, the second Duke of Lancaster, one of the best known historical figures associated with the city. Both the Houses of Lancaster and York were direct descendants of King Edward III (John of Gaunt was the third surviving son of Edward III) and were involved in the Wars of the Roses in the latter half of the 15th century.

Until 2011, Lancaster Castle served as a Crown Court and prison. Large numbers of people were sentenced there, receiving such punishments as imprisonment, fines, being sentenced to death, and, between 1788 and 1868, transportation to the penal colonies, mainly Australia.

The court at the castle handed out more death sentences than any other in the country. The town earned the nickname 'Hanging Town'. Executions were frequent, and, from the early 19th century took place outside the castle walls, often with crowds of more than 5000 gathering to witness the spectacle. Prior to that period, the condemned (and the crowd) had to make their way through the town (via a hostelry to have a last drink with family and friends) to Gallows Hill.

Towards the end of the 17th century, Lancaster's fortunes began to improve. The River Lune was deep, so ocean going vessels could navigate upriver, and being on the west side of the country, it was well placed to benefit from the growth of colonies in the West Indies and North America. The town began to prosper, the port became one of the busiest in the UK, importing such goods as sugar, mahogany and tobacco, and became the fourth most important in the slave trade. You can see a memorial (called 'Captured Africans') to the slaves whose lives were stolen by slave traders of that period on St George's Quay, on the bank of the River Lune.

Unfortunately the River Lune began to silt up, and Lancaster's maritime heyday was rather shortlived. Nowadays Heysham is the main port for the district. The Victorians started the development of Morecambe as a seaside resort.

Today Lancaster is a thriving and vibrant university city, which offers many free art and music festivals throughout the year. The Grand Theatre, one of the country's oldest working theatres (with ghost in residence!) holds many national and local productions.

Sightseeing

Lancaster is a small city, and, being compact, easily explored. You can stroll the meandering towpaths of the canal or along St George's Quay, marvelling at the Georgian architecture which lines the banks of the River Lune, or walk around in the old town and visit the excellent cafes.

The city's grand Edwardian **Williamson Park** perched on a hill overlooking Morecambe Bay is full of surprises including a Butterfly House, adventure play area and the iconic Ashton Memorial folly, once described as the grandest monument in England.

43 miles of lock-free **Lancaster Canal** winds its way through Lancaster and the surrounding farmland. In the 19th century a horse-drawn passenger boat, Waterwitch, made the 30-mile journey from Lancaster to Preston in a speedy three hours. Today visitors can take a diesel-powered pleasure cruise across an impressive Georgian aqueduct over the River Lune. A return trip of 4.2 miles takes nearly two hours. www.budgietransport.co.uk

Lancaster was once among the five busiest ports in Britain. Tall ships carrying sugar, spices, tea and coffee sailed up the River Lune into the city. The colonnaded customs house, a fine Georgian building, is now a **maritime museum** that also tells of the slave trade. www.lancashire.gov.uk

Forest of Bowland: located on the edges of the city to the South and East. In medieval times a 'forest' was a royal hunting ground. This Area of Outstanding Natural Beauty is often overlooked as visitors flock to the nearby Yorkshire Dales and Lake District. This means the country lanes that wind through its stone villages and moorland hills are free of traffic. Perfect for cycling (you could always tackle the hills with electric bikes...). forestofbowland.com

Judge's Lodgings (Church Street, Lancaster, Lancashire, LA1 1YS). Originally home to a keeper of Lancaster Castle who was a notorious witch hunter, this grand house is the oldest in Lancaster, with parts dating to 1550. Between 1776 and 1975 judges visiting the court at nearby Lancaster Castle lodged here. Now it's a museum with a renowned collection of Gillow furniture. Open Fridays, Saturdays and Sundays. For more information ring 01524 64637 or email judgeslodgings@lancashire.gov.uk.

Lancaster Castle: The castle holds one of the finest collections of Gillow furniture in the world, including a special throne-like chair made for the visit of Queen Victoria to the castle. The castle also displays an impressive collection of heraldry spanning 800 years in the form of 650 shields bearing the arms of every English monarch from Richard The Lionheart onwards, as well as all of the Constables of Lancaster Castle and High Sheriffs of Lancashire. Open Mon-Sun 09:00-17:00. http://www.lancastercastle.com/ https://www.visitlancashire.com/things-to-do/englands-historic-cities-lancaster-castle-app-p877150

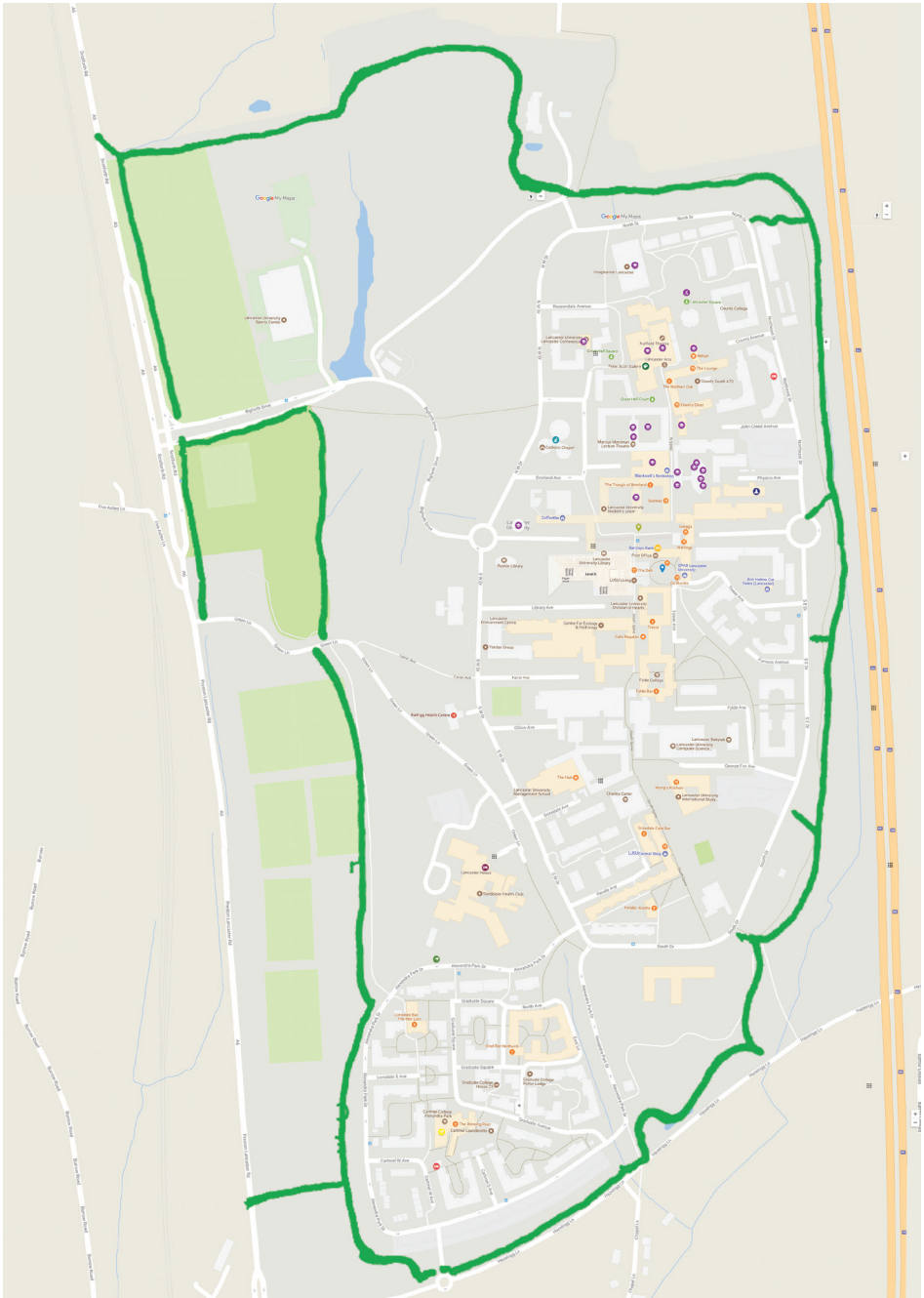
Lancaster City Museum (Market St, Lancaster LA1 1HT, UK): Situated in the heart of this historic cultural city of Lancaster in an elegant Georgian building. The exhibition covers Lancaster's past from the Romans to the present day. Closed on Mondays. Open 10:00-17:00 on all other weekdays.

Find out more about places to visit and things to see here:
http://www.lancashire.gov.uk/leisure-and-culture/museums/
https://www.visitlancashire.com/explore/lancaster
http://visitlancaster.org.uk/visitor-info/maps-and-guides/

Food and drink

Lancaster has a wide range of pubs, cafes and restaurants for a town of its size, many in heritage buildings and attractive locations.
You can get a taste of what's available at
http://visitlancaster.org.uk/eat-and-drink/.
However, do be aware that many places will stop taking orders for food at 21:00, or possibly even earlier, with mainly Indian, Thai, Chinese and Turkish restaurants serving food later into the evening.'

There is a woodland walking trail around the perimeter of the campus. It can be accessed at various points, including off the perimeter road behind the LICA building. Please use the map below to locate it.



EVENTS AND MEETINGS

Throughout

Creating Life-Event Walks: A Meeting of Landscape, People and Science, exhibition by Louise Ann Wilson
Peter Scott Gallery at Great Hall Complex, Lancaster University

Louise Wilson is a scenographer, visual artist and researcher who creates interdisciplinary, site-specific walking-performance, books, artworks, and installations in rural landscapes that emplace, re-image and transform 'missing', marginal life-events. Each piece of work is developed in close collaboration with scientists and experts in the field of the particular life-event in question and those experiencing it. She uses the features of a rural landscape and the act of walking as metaphor for the participants' experiences and immersion in that landscape as a therapeutic, transformative process. Her work has addressed bereavement, infertility, coping with change and the effects of aging. The work is underpinned by a rigorous methodology and her six principles for making socially engaged and therapeutic scenography. The exhibition will demonstrate how the methodology works and how she applies the principles in her practice using examples from her current projects and past work - a mixture of film, photography, objects, mapping drawings and text as well as an opportunity to try out her creative mapping process. The exhibition also marks the beginning of a year long relationship

between Louise, the Centre for Science Studies and Lancaster Arts which will support her development of a Centre for Life-Event Walks, a hub for research-based practice which aims to promote and disseminate the possibilities for socially engaged and applied scenography in rural landscapes.
Gallery opening times: Wed 25 July: 11:00 -18:00, Thu 26 July: 09:30-18:00, Fri 27 July 09:30-18:00, Sat 26 July 09:30-18:00
There are specific exhibition-related events, please see the schedule below.

Meeting Environments at Lancaster University

To complement the theme of the conference, the Local Organising Committee have organised various events to enable participants to 'meet' some of the specific kinds of environments we have at Lancaster. We have themed these: Meeting Soil (Wed, 10:00); Meeting Energy (Thu, 12:30); Meeting Machines (Fri, 12:30); and Meeting Chi (Thu, Fri, Sat 08:00). Please be aware that Meeting Soil, Meeting Energy and Meeting Machines required registration before the conference as places are limited. For Meeting Chi the registration will be open during the conferences if there are places available. More details below.

Wednesday 25th July

10:00–12:00

"Meeting Soil" campus trip
Meet at the Chaplaincy Centre, south side
A walk to the Eco-Hub where we can hear about and take part in student/staff natureculture experiments including permaculture and orchard plantings.
N.B. Pre-registration was required via as this campus trip will be limited to 30 pre-registered participants. Remember to bring suitable clothes and sturdy footwear for being outdoors, and for doing some practical work in a permaculture garden.

15:00-16:30

Sub-plenary: Meeting Frankenstein
Great Hall
This session will mark the 200th anniversary of the publication of Mary Shelley's Frankenstein through a wide-ranging consideration of the significance of that text and its contemporary relevance. It will be organised through explorations of meeting Frankenstein in: media (Christopher Frayling), technoscience (Lucy Suchman) and Science and Technology Studies (Maureen McNeil).

16:45-18:30

Plenary 1: Meeting Soil
Great Hall
Plenary speakers: Starhawk and Maria Puig De La Bellacasa, Chair: Joan Haran

18:45-19:15

Millennium Choir Performance 'Frankenstein Sings'
Great Hall

In this 25 minute performance, Lancaster's Millennium choir sings to and about James Whale's 1931 classic film, Frankenstein. Both ridiculously funny and sometimes moving, this unique musical performance explores and engages with the cultural significance of the Frankenstein legend in its Hollywood form.

All welcome!

18:35-19:45

Welcome drinks reception
LICA
After the plenary and the choir performance, we invite you to move on to LICA for a drinks reception, to enjoy drinks and snacks, reunite with old friends and meet some new ones.
Sponsored by **Rowman & Littlefield International**.

ROWMAN & LITTLEFIELD INTERNATIONAL

Thursday 26th July

08:00-08:45

"Meeting Chi"
Lancaster Square or, if raining, in Minor Hall in Great Hall Complex
Chi Gung followed by Tai Chi exercises enabling energy to flow freely in the body for a centred and relaxed start to the day.
N.B. Pre-registration required via https://goo.gl/forms/h9z7ia4uhgnl7A1K2

12:30-14:00

"Meeting Energy" campus trip
Meet at the Chaplaincy Centre, south side
Meeting energy includes a tour, talk and picnic at the Lancaster University wind turbine with campus energy manager Jan Bastiaans. Remember to bring clothing and sturdy footwear for a talk and picnic outdoors: it may be windy on the site which is in a field near the university.
N.B. The trip is limited to 44 participants and pre-registration was required.

12:30-14:00

German Association of STS meeting
Marketplace, County South Building

12:30-14:00

Science and Technology Studies Board meeting
Bowland North Seminar Room 2

12:30-14:00

EASST Review Editorial Board meeting
FASS meeting room 1

12:30-14:00

Encounter, create and eat the world: a meal (AW01 Workshop)
LICA C01 Design Studio

13:00:13:50

Creating Life-Event Walks: A Meeting of Landscape, People and Science exhibition by Louise Ann Wilson
Peter Scott Gallery at Great Hall Complex, Lancaster University
Exhibition Launch/Talk (Louise Ann Wilson with Celia Roberts, Simon Bainbridge, Jocelyn Cunningham)

17:00

Doors open for Plenary 2, Meeting Energy
Lancaster Town Hall, Dalton Square, Lancaster LA1 1PJ
Please arrive early to secure good places

17:30-19:00

Plenary 2: Meeting Energy
Lancaster Town Hall, Dalton Square, Lancaster LA1 1PJ
Meeting Energy will be a public event in a public place: Lancaster's Edwardian Town Hall in the famous Ashton Hall, complete with grand organ and sprung dance floor! This large space has been the scene of many lively public meetings over the years and now it brings together academics, activists, residents, journalists and politicians to explore and debate the most live and contentious issue: energy. Plenary speakers: Andrew Sterling, João Camargo, Gillian Kelly, Chair: Maggie Mort

Friday 27th July

08:00-08:45

"Meeting Chi"
Lancaster Square or, if raining, in Minor Hall in Great Hall Complex
Chi Gung followed by Tai Chi exercises enabling energy to flow freely in the body for a centred and relaxed start to the day.
N.B. Pre-registration required via https://goo.gl/forms/h9z7ia4uhgnl7A1K2

12:30-14:00

"Meeting Machines" campus trip
Meet at the Chaplaincy Centre, south side
Talk and tour around the nano-imaging and microscopy pod of Isolab, a space designed by Lancaster physicists to provide the most advanced environment for studying quantum systems.
N.B. The trip is limited to only 10 participants and pre-registration was required.

12:30-14:00

Special issue launch: "Re-learning Design: Pedagogical experiments with STS in design studio courses" (*DISEÑA* #12)
Marketplace, County South Building
Organised by Ignacio Farias & Tomás S. Criado. Guest commentators: Yana Boeva (York University, Toronto) and Teun Zuiderent-Jerak (Linköping University)
In the last decades, the institutionalization of STS in technical universities has made urgent the challenge of how to teach STS sensibilities and political commitments to a project of technical democracy when operating in the belly of the beast. Focusing on the crossroads of design and STS, "Re-learning Design: Pedagogical experiments with STS in design studio courses" is a bilingual issue of *DISEÑA* recently edited by Ignacio Farías and Tomás S. Criado, which features a series of interviews and articles on pedagogical experiments with STS in design studio courses undertaken by a diverse range of academics from Europe and the Americas.

12:30-14:00

Science as Culture Journal Advisory Panel meeting
FASS meeting room 1

12:30-14:00

AsSIST-UK Board meeting
Faraday Seminar Room 2

13:00-13:50

Gallery Talk and Creative Workshop (Walks to Remember)
Peter Scott Gallery, Great Hall Complex, Lancaster University

17:45-19:00

EASST General Meeting & Awards Ceremony
Great Hall

19:00-24:00

VERTEX – the EASST2018 social event (ticketed event, sold out)
Lancaster Square
In geometry, a vertex (plural: vertices or vertexes) is a point where two or more curves, lines, or edges meet. The square is the centre of social life, where public meets private, local meets exotic, familiar meets strange. This event will take place in Lancaster Square and is an evening of meetings that includes encounters with street food, pop-up bars, ambient sounds and live music. Dan Fox's Howling Wire, a 12-metre tall electro-acoustic wind harp, opens at 17:30 on the square. Live performances start at 19:00, by NuJazz Collective (electronica, hip-hop, nujazz), Paddy Steer (cosmic experimental lo-fi analogue funk) and the Groove Cutters (high-energy, super-danceable funk & soul). Drinks will be served from 19:00 and food from 20:00.

Saturday 28th July

08:00-08:45

"Meeting Chi"
Lancaster Square or, if raining, in Minor Hall in Great Hall Complex
Chi Gung followed by Tai Chi exercises enabling energy to flow freely in the body for a centred and relaxed start to the day.
N.B. Pre-registration required via https://goo.gl/forms/h9z7ia4uhgnl7A1K2

13:00-13:50

Gallery Talk and Creative Workshop (Warnscale for Men)
Peter Scott Gallery, Great Hall Complex, Lancaster University

14:00-15:30

Plenary 3: Meeting Machines
Great Hall
A key theme for the EASST Conference is meetings between, and differences within, the cultural and intellectual constituencies of STS and how this work embraces diverse socio-technical fields and practices. This Plenary, supported by AsSIST-UK and its members, provides an opportunity to discuss these processes at a synoptic level, exploring how work within both STS and innovation studies (IS) is opening up constructive engagement between the two, new forms of inquiry that remake intellectual constituencies and so will reshape future work.
Plenary speakers: Noortje Marres, Sampsa Hyysalo, Kornelia Konrad, Robin Williams, Chair: Andrew Webster

15:30-16:30

Closing drinks reception
LICA
It is time to celebrate the end of the conference and drink to new Meetings! The reception has been kindly sponsored by **AsSIST-UK**, the Association for Studies in Innovation Science and Technology, and **The Guardian S&T Policy Blog.**

The Guardian
S&T POLICY BLOG

*As*SIST-uk
Association for Studies in Innovation Science and Technology-UK

BOOK EXHIBIT

The Book exhibit is alongside the catering space in LICA, where delegates are invited to browse the titles, and talk to the publisher representatives. The support of the publishers is an important part of putting on the biennial conference, so please do take the time to visit their stands, and talk to their staff. This year MIT Press, Palgrave Macmillan, Taylor & Francis, Emerald Publishing, Duke University Press, Rowman International, UCL Press and Mattering Press will be present.

The Book exhibit hours are:

Wednesday	14:00-18:30
Thursday	10:00-16:00
Friday	10:00-16:30
Saturday	10:30-14:00

PLENARY SCHEDULE

Wednesday 25th July

15:00-16:30

Sub-plenary: Meeting Frankenstein, *by Christopher Frayling (Lancaster University), Maureen McNeil (Lancaster University) and Lucy Suchman (Lancaster University)*
Location: Great Hall

This session will mark the 200th anniversary of the publication of Mary Shelley's Frankenstein through a wide-ranging consideration of the significance of that text and its contemporary relevance. It will be organised through explorations of meeting Frankenstein in: media (Frayling), technoscience (Suchman) and Science and Technology Studies (McNeil).

Christopher Frayling was until recently Rector of the Royal College of Art and Chair of Arts Council England. An historian, a critic and an award-winning broadcaster, he has published widely on art, design and popular culture – including several books on aspects of the Gothic in literature and film. His latest books are: *Frankenstein – the first two hundred* years and *The 2001 File*. He is a visiting Professor at the University of Lancaster, a Fellow of Churchill College Cambridge, Professor Emeritus of Cultural History at the Royal College of Art and an honorary Research Fellow at the Victoria and Albert Museum.

Maureen McNeil is Professor Emeritus affiliated with the Department of Sociology at Lancaster University, with previous posts at Lancaster University as Associate Director Cesagen ESRC Centre for Economic and Social Aspects of Genomics) and Director, Institute for Women's Studies. Her publications include: *Under the Banner of Science: Erasmus Darwin and His Age*; *Feminist Cultural Studies of Science and Technology* and with Joan Haran and Kate O'Riordan, *Human Cloning in the Media: from Science Fiction to Science Practice*. Her ongoing research concerns the politics, practices and narratives of reproduction.

Lucy Suchman is Professor of Anthropology of Science and Technology in the Department of Sociology at Lancaster University. Before taking up her present post she was a Principal Scientist at Xerox's Palo Alto Research Center, where she spent twenty years as a researcher. Her publications include: *Human-Machine Reconfigurations: Plans and Situated Actions*. Her present work continues her longstanding critical engagement with the promises and limits of autonomous technologies as they are figured in the fields of artificial intelligence and robotics.

17:00-18:30

Plenary 1: Meeting Soil

by Starhawk (Independent) and Maria Puig de la Bellacasa (University of Leicester)
Chair: Joan Haran (Cardiff University)
Location: University Great Hall

Welcome to Lancaster University from Professor Steve Decent, Pro-Vice Chancellor of Lancaster University and Vicky Singleton and Richard Tutton, co-chairs of the Local Organizing Committee.

Soil *by Starhawk*

Soil—the ground beneath our feet, the living matrix upon which our very lives depend. Yet to be 'soiled' or 'dirty' is to be smeared, tainted, despicable. The denigration of soil is part of a metaphorical complex, a larger frame which sees spirit split from body, values the high, the light, the white, the male, and the transcendent over the low, the dark, the black, the female, and the immanent. This frame arises from historical roots in Europe that go back to the transition from the matrifocal, Goddess-centered societies of prehistory to patriarchal cultures of war, and in the later conquest of ancient, earth-centered Pagan traditions by Christianity, culminating in the Witch Persecutions of the 16th and 17th Centuries that opened the way for the triumph of capitalism. This metaphorical frame underlies and props up racism, sexism and other forms of oppression. The devaluing of nature also has enormous implications for our current age, when we are sacrificing the life-support systems of the planet on the

altar of that abstract, disembodied god profit.
What would it look like to truly meet soil as the living ecosystem under our feet that sustains and nourishes life? "Humble" shares the same root as humus—and the humble creatures of the soil, the bacteria, protists, worms and fungi and their interactions with plant roots hold enormous potential for healing damaged ecosystems, restoring fertility, sequestering excess carbon and mitigating the worst impacts of climate change. Yet to embrace that potential, we must shift our gaze from the heavens to the ground, put less faith in technology and more in biology, and place the messy, complex, bloody, dirty processes of life at the center of what we hold sacred.

Starhawk is an author, activist, permaculture designer and teacher, and a prominent voice in modern earth-based spirituality and ecofeminism. She is the author or co-author of thirteen books, including *The Spiral Dance: A Rebirth of the Ancient Religion of the Great Goddess* and the ecotopian novel *The Fifth Sacred Thing*, and its sequel *City of Refuge*. Her most recent non-fiction book is *The Empowerment Manual: A Guide for Collaborative Groups*, on group dynamics, power, conflict and communications. Starhawk founded Earth Activist Training, teaching permaculture design grounded in spirituality and with a focus on activism. She travels internationally, lecturing and teaching on earth-based spirituality, the tools of ritual, and the skills of activism.

Transforming human-soil affections – meeting sacred matter in science, culture and community *by Maria Puig de la Bellacasa*

Shifting our gaze to the ground, as Starhawk puts it, is an inspiring appeal in so many ways. It resonates with the search for invisible minor stories, for the infra-historical ways in which inventive ecological cultures are confronting with care, on the ground, the neglect and abuse of soils by productionism and extractivism. In times when Earth powers have come to evoke epic catastrophic confrontations and indifferent planetary reactions to anthropocenic domination, thinking Earth as soil involves more ordinary aspects of human relations with earthy forces. These stories might seem insignificant in the face of the overwhelming speed of technoscientific urgings that curtail rather than enable eco-social innovation. But hope for soils today not only resides in much needed practical solutions, but in transforming human-soil affections across science, culture, and community.
I met and fell in awe with soils through one of those innovative ground-gazing eco-social initiatives, permaculture, thanks to Starhawk and Erick Ohlsen's teachings in Earth Activist Trainings. I had to meet soil, because I was not even aware it was there. Like for most people today in the worlds I live in, the soil was a hidden world, the unnoticed infrastructure of life I walked upon, indifferent to how I was made and sustained by it. This was transformational. So, what happened when the aspiring earth activist and the feminist STS researcher met in one body? What could this particular "meeting" do to propagate love for the soil and awareness of our substantial commonness? And how to make this meeting matter to soils?

In technoscientific cultures, where relations with the more than human worlds are highly mediated by science, feminist STS inspires to look at how ground-gazing sciences reveal soil and think of how they could be more involved in re-animating ecological soil affections. Because scientific stories are much more than scientific. Earth Activist Trainings also engage soil scientific knowledge. But they overtly combine the discovery of soil's material and biological properties with a spiritual opening to its sacred character – through symbolic and metaphorical meanings. Translated in STS dialect, this is material-semiotic soil – intimate composition of matter, story and metaphor, technoscientific intervention and non-human agencies. STS itself remains generative of opening to these multifarious meetings, not only because it is interdisciplinary, but because it pushes the boundaries of academic knowledge and is eager

to learn from different practices. Meeting soil as sacred calls upon commitment to share the troubles of soils in ways that not only challenge what science is, but also what are legitimate affections knowledge accounts. As a contribution to our conversation on Meeting Soil, I'd like to share minor stories of material-semiotic sacred soils that emerge when sciences, cultures, and communities are made to meet through their affection for soils: Biological Wonder; Earthy Sensuality; Regenerations; Elemental Affinities; and Breakdown Ecopoethics.

Maria Puig de la Bellacasa is Associate Professor of Science, Technology and Organisation at the University of Leicester. Maria's work is grounded in science and technology studies, feminist theory and the environmental humanities. She is interested in how questions of ethics, politics and justice affect and are affected by scientific practices, as well as on the socio-cultural imaginaries enacted by technoscientific interventions. Her other main broad research interest is in alternative spaces of knowing and doing – currently focused on everyday forms of ecological care, permaculture movements and materialist spiritualities. Her current research on 'The Reanimation of Soils. Transforming Human-Soil Affections Through Science, Culture and Community', is an exploration of contemporary changes in human-soil relations. She has published her work in 3 books, numerous journal articles and book chapters. Her most recent book, *Matters of Care: Speculative Ethics in More Than Human Worlds*, was published in 2017 by University Minnesota Press.

Thursday 26th July

17:30-19:00

Plenary 2: Meeting Energy

by *Gillian Kelly, João Camargo (University of Lisbon) and Andrew Stirling (The Sussex Energy Group)*
Chair: Maggie Mort (Lancaster University)
Location: Lancaster Town Hall, City Centre

Meeting Energy will be a public event in a public place: Lancaster's Edwardian Town Hall in the famous Ashton Hall, complete with grand organ and sprung dance floor! This large space has been the scene of many lively public meetings over the years and now it brings together academics, activists, residents, journalists and politicians to explore and debate the most live and contentious issue: energy.
With a Science and Technology Studies sensibility we will see energy as an actor by exploring technologies and materials of energy and how they engage, imagine, undermine or support, think and plan with and through, energy systems. We aim in this meeting to pin down the category 'energy'; to ground it, by making visible some of the practices, strategies and encounters between humans and things that are often hidden in political rhetorics. We do this by starting with some hidden encounters between civil and military nuclearities, then we consider some embodied resistances to the violence of fracking and then widen to the experiences of activists and campaigners in the climate justice movement.

At 73 years of age, **Gillian Kelly** found herself one day sitting in the central reservation on the A583 outside Cuadrilla's fracking site near Blackpool, Lancashire, one arm locked into a steel tube and surrounded by police. She and others that day were later charged with obstructing the highway. Born and brought up in the Fylde in Lancashire, Gillian has been based in the English Lake District for more than 40 years. Following drama school in London she has had careers in teaching, as a vegetarian restaurateur and latterly retraining as a psychotherapist. She worked as a practitioner and trainer travelling between London and the Lakes for several years and is still practicing as a psychotherapist. In 2017 after learning about fracking, she encountered a 'tipping point' and became an activist, taking direct action, involving three generations of her family, to oppose the Government's imposition of fracking as a national infrastructure project, overriding local democracy.

João Camargo is an animal scientist and environmental engineer, formerly a journalist and teacher of botany and chemistry. He's been a political activist in precarious workers' movements, in the struggles against austerity and the troika and currently focuses on climate justice in the Portuguese movement Climáximo. He's currently finishing his PhD in climate change in the University of Lisbon, about climate change as a new metanarrative for humanity, while evaluating climate and energy public policy in Portugal, Spain and Morocco. He's published two books in 2018: *Climate Change Combat Manual* and *Portugal in Flames – How to Rescue the Forests.*

Andrew Stirling has a background in the natural sciences, a master's degree in archaeology and social anthropology (Edinburgh) and a D.Phil in science and technology policy (Sussex). Formerly a campaigner and board member for Greenpeace, he has collaborated with a range of governmental, business and civil society organisations. His research interests include technological risk, scientific uncertainty and issues around diversity, power and democracy in research and innovation (where he has helped develop participatory appraisal methods). He has served on several policy advisory committees, including the UK Government's Advisory Committee on Toxic Substances and GM Science Review Panel as well as the European Commission's Expert Group on Science and Governance. He has published widely, including a book with colleagues in the Sussex STEPS Centre: Dynamic Sustainabilities, Technology, Environment, Social Justice published by Taylor and Francis Group in 2010.

Saturday 28th July

14:00-15:30

Plenary 3: Meeting Machines

by *Kornelia Konrad (University of Twente), Noortje Marres (University of Warwick), Sampsa Hyysalo (Aalto University) and Robin Williams (University of Edinburgh)*
Chair: Andrew Webster (University of York)
Location: University Great Hall

A key theme for the EASST Conference is meetings between, and differences within, the cultural and intellectual constituencies of STS and how this work embraces diverse socio-technical fields and practices. This Plenary, supported by AsSIST-UK and its members, provides an opportunity to discuss these processes at a synoptic level, exploring how work within both STS and innovation studies (IS) is opening up constructive engagement between the two, new forms of inquiry that remake intellectual constituencies and so will reshape future work. There is, for example, shared interest between STS and the new IS wave interested in pro-poor/below the radar innovation, greener innovation, user driven innovation and social innovation – issues which require a coming together of STS-informed research and the approaches of IS. There are also new forms of intervention in innovation and technology development. This is exemplified by debates in regard to responsible research and innovation, and challenge-oriented, engaged research within policy which fosters a problem-orientated approach that open up spaces for STS and IS engagement. These are some of the issues the Panel will be discussing. AsSIST-UK is keen to open up such debates to reflect recent and future work by members of the Association within the UK and internationally.

Kornelia Konrad is Assistant Professor on Anticipation and Assessment of Emerging Technologies at the Department of Science, Technology and Policy Studies (STePS) at the University of Twente, NL. Her research interests address the role of anticipation in the form of expectations, hypes or specific anticipatory practices, such as foresight or roadmaps in innovation; work that fed into the emergence of the STS field 'sociology of expectations', but also draws on concerns and approaches from innovation studies. Further work addresses constructive technology assessment, responsible research and innovation, sectoral dynamics in innovation and socio-technical transitions. Her research projects and teaching are partly integrated in research & innovation programmes, as the Dutch Nanotechnology programme, and technical education programmes, thus also raising as a core issue how STIS insights can be introduced into ongoing research and innovation processes respectively made relevant for future innovation actors.

Noortje Marres is Associate Professor and Research Director in the Centre for Interdisciplinary Methodologies (CIM) at the University of Warwick (UK). She studied sociology and philosophy of science and technology at the University of Amsterdam and the Ecole des Mines (Paris), and much of her research focuses on problems of participation in technological societies. Noortje has also contributed to the development of issue mapping methodology, in particular digital methods of issue network analysis. Her first book, *Material Participation: Technology, the Environment and Everyday Publics* (Palgrave) came out in paperback in 2015 and her second, *Digital Sociology* (Polity) was published last year. She is a visiting professor in the Centre for Science and Technolology Studies at the University of Leiden and a Mercator Fellow in the Media of Cooperation research program at the University of Siegen.

Sampsa Hyysalo is a Professor of Co-Design at Aalto University. His research interest is in the roles users play in technological change, design in particular. This includes research on co-design, innovation by users, user communities, adaption of technology, design and use practices, innovation processes, and sustainability transitions. Most of Sampsa's research takes the form of in-depth longitudinal studies that span both designing and using of new technology. His research orientation is multidisciplinary, science & technology studies, innovation studies and collaborative design being his main fields, and he has led a multidisciplinary users and innovation research group in Aalto since 2011. Sampsa received his PhD in behavioral sciences in University of Helsinki and his docenture in is user-centered design of information systems in University of Turku. He has published over 70 articles and book chapters, and authored several books, the latest being *The new production of users: Changing innovation communities and involvement strategies* (with Elgaard Jensen and Oudshoorn, Routledge, 2016), *Health Technology Development and Use: From practice-bound imagination to evolving impacts* (Routledge, 2010). He was the chief editor of *Science & Technology Studies* journal 2007-2016 and was awarded the Academy of Finland prize for social impact of research in 2010 and EASST Freeman prize in 2016.

Robin Williams is Professor of Social Research on Technology and Director of Institute for the Study of Science Technology and Innovation (ISSTI) in the School of Social and Political Science at the University of Edinburgh. He led Edinburgh's successful bid under the ESRC Programme on Information and Communication Technologies (1987-95) which formed the basis for an interdisciplinary programme of research into 'the social shaping of technology' with over 60 externally funded research projects. This culminated in the establishment of ISSTI, which brings together researchers across the University of Edinburgh in Science, Technology and Innovation Studies. Much of this research is conducted in collaboration with practitioners and specialists from science and engineering. Robin's personal research trajectory focuses on the design, implementation, use and outcomes of information and communication technologies. He has published a number of books including *How Industry Analysts Shape the Digital Future* (2016, with Neil Pollock), *Software and Organisation* (2009, with Neil Pollock) and *Social Learning in Technological Innovation* (2005, with James Stewart and Roger Slack).

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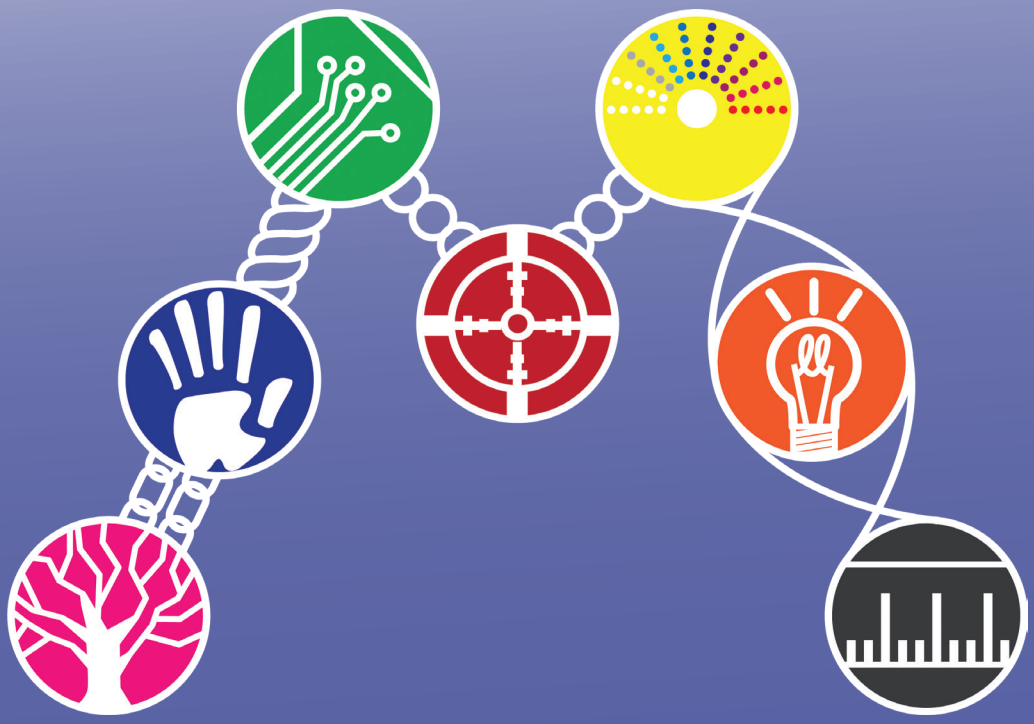


PROGRAMME SCHEDULE

Wednesday 25th July, 13:00-14:30

A06 Meeting (in) data

Convenors: Tahani Nadim (Humboldt University Berlin); Antonia Walford (University College London/ University of Copenhagen)
Discussant: Jennifer Gabrys (Goldsmiths, University of London)
Bowland Lecture Theatre (Bowland Main): **first of two sessions**

Bets, bots and bodies: erasing erroneous environments. *Ingmar Lippert (Museum für Naturkunde Berlin).*

Remaking the world for reproducibility. *Nicole Nelson (University of Wisconsin Madison).*

In data we trust? Negotiating data assemblages in the implementation of Brazil's climate targets. *Raoni Rajão (Universidade Federal de Minas Gerais); Juliane Jarke (University of Bremen).*

Matters of scale, or how Satellite Remote Sensing, grasslands and vegetation models meet in data. *Jonas Müller (Kassel University).*

A16 Infrastructures of the Anthropocene

Convenors: Martin Mahony (University of East Anglia); Martin Skrydstrup (Copenhagen Business School)
Bowland North Seminar Room 2: **first of two sessions**

The rain, the return, and the credit. Turning climate change into an insurable risk in Senegal. *Sara Angeli Aguiton (École des Hautes Études en Sciences Sociales).*

Meteorology for 'marginal climates': colonial science in British East Africa. *Martin Mahony (University of East Anglia).*

"Infrastructural geopolitics" of climate knowledge. *Jean Carlos Miguel (Federal University of São Paulo).*

Economies of appearances: information technology and the management of (in)visibility in the Brazilian Amazon. *Theodore Vurdubakis (Lancaster University); Raoni Rajão (Universidade Federal de Minas Gerais).*

A20 Chemical entanglements: exploring ontologies at the atomic level

Convenors: Emma Cardwell (Glasgow University); Claire Waterton (Lancaster University)
Bowland North Seminar Room 6: **first of two sessions**

Chemical entanglements in air pollution science and research. *Emma Garnett (King's College London).*

Representation in nineteenth century chemistry. *Rachel Dunn (Durham University).*

Biopolitics, or a chemical society. *Andrew Barry (University College London).*

Hypermetabolic N: the social life of nitrogen. *Emma Cardwell (Glasgow University).*

A23 The politics of negative emissions

Convenors: Nils Markusson (Lancaster University); Duncan McLaren (Lancaster University); Rob Bellamy (University of Oxford)
Welcome Centre Lecture Theatre 2: **first of two sessions**

Public perceptions of bioenergy with carbon capture and storage under different policy instrument framings. *Rob Bellamy (University of Oxford).*

The geopolitics of negative emissions. *Judith Kreuter (Technische Universität Darmstadt).*

Carbon removal from below: understanding tensions between discourses of drawdown versus negative emissions. *Holly Buck (University of California Los Angeles).*

The politics and publics of Enhanced Weathering for carbon sequestration. *Emily Cox (Cardiff University).*

A24 Disasters and participation: inventive/disruptive encounters

Convenors: Maggie Mort (Lancaster University); Israel Rodriguez-Giralt (Universitat Oberta de Catalunya)
Faraday Lecture Theatre (Faraday Complex): **first of two sessions**

Disaster on standby. *Joe Deville (Lancaster University).*

Participatory crisis governance and emergency planning for pandemic preparedness. *Elisa Pieri (University of Manchester).*

IsITEthical? Participatory ethics in crises. *Maria Alejandra Lujan Escalante (Lancaster University); Monika Buscher (Lancaster University); Hayley Alter (Lancaster University); Xaroula Kerasidou (Lancaster University).*

Shifts in medical work following the Fukushima disaster. *Sudeepa Abeysinghe (University of Edinburgh).*

A26 More-than-human mobilities

Convenors: Jen Southern (Lancaster University); Samuel Thulin (Concordia University); Monika Buscher (Lancaster University)
Cavendish Lecture Theatre (Faraday Complex): **first of two sessions**

From Critter Chips to Critter Compilers - a fabulation of environmental computing otherwise. *Helen Pritchard (Goldsmiths, University of London).*

Crafting geographies of human-wildlife encounter: visual praxiography in more-than-human worlds. *Jared Margulies (University of Sheffield).*

Lenses and rhythms in the sea in crisis. *Astrid Schrader (University of Exeter).*

What is a dog able to do? Producing a new cosmopolitan antropozoogenesis in Chilean cities. *Arthur Arruda Ferreira; Jimena Carrasco (Universidade Austral do Chile).*

B05 Crafting attachments, making worlds

Convenors: Annelieke Driessen (University of Amsterdam); Else Vogel (Linköping University); Justine Laurent (University of Amsterdam)
Discussant: Marianne de Laet (Harvey Mudd College)
Bowland North Seminar Room 23: **first of two sessions**

On getting attached to music. Strategies and drivers of loving music in everyday life. *Víctor Ávila Torres (University of York).*

Curated detachment: how to translate aesthetic experiences of 'ugly socialism' into 'beautiful modernism'. *Anastasiya Halauniova (University of Amsterdam).*

Persistent attachments: chronic pain and the post-ANT theoretical repertoire. *Else Vogel (Linköping University).*

Non-interventions as form of care. *Annelieke Driessen (University of Amsterdam); Erica Borgstrom (Open University); Simon Cohn (London School of Hygiene & Tropical Medicine).*

B09 Feminist figures: crafting intersections in theory and practice

Convenors: Kate O'Riordan (University of Sussex); Joan Haran (Cardiff University)
Welcome Centre Lecture Theatre 3: **first of three sessions**

Meeting in collaborative figurations. *Waltraud Ernst (Technical University Dresden).*

Why fabulate design? *Daniela Rosner (University of Washington).*

Living in/as im/possibility: on our response-ability to mend. *Jonnet Middleton (Lancaster University).*

Crafting companions and cyborgs: anger and attachment. *Kate O'Riordan (University of Sussex).*

C04 Productive frictions: co-laboration and confluence in the work of new alliances

Convenors: Christine Schmid (Humboldt University of Berlin); Jonna Josties (Humboldt-Universität zu Berlin); Lauren Cubellis (Washington University in St. Louis)
Discussants: Jeannette Pols (University of Amsterdam), Joerg Niewoehner (Humboldt-Universität zu Berlin)
Frankland Lecture Theatre (Faraday Complex): **first of two sessions**

"Between productive friction and productive fiction": juxtaposing two research projects on `Genesungsbegleitung` and their moments of friction. *Christine Schmid (Humboldt-University Berlin).*

"Inchoate potential": negotiating ethnographic presence in dialogic network therapy. *Lauren Cubellis (Washington University in St. Louis).*

New cooperation between social psychiatry and the housing industry in Berlin: staging parasites from within an urban assembly. *Patrick Bieler (Humboldt-Universität zu Berlin).*

Bio-sensing in research on the city-psychosis nexus: theoretical and methodological challenges of a mixed-method approach. *Marc Winz (University of Neuchâtel).*

C11 Scientific meetings across disciplinary boundaries

Convenors: Miles MacLeod (University of Twente); Johan Munck af Rosenschöld (University of Helsinki)
Frankland Colloquium (Faraday Complex): **first of two s**

Meeting of the minds. Or: on building walls instead of bridges. *Anna-Lena Berscheid (University of Paderborn).*

Cultivating and hampering interdisciplinary meetings: the role of institutional work. *Johan Munck af Rosenschöld (University of Helsinki); Mikko Salmela (University of Helsinki).*

Serious yet playful: the benefits of play when social scientists and synthetic biologists meet. *Carmen McLeod (University of Nottingham); Stevienna de Saille (University of Sheffield); Brigitte Nerlich (University of Nottigham).*

Pursuing knowledge integration between modernist and reflexive cultures: lessons learned from two organised spaces for epistemic alignment. *Eva-Maria Kunseler (PBL Netherlands Environmental Assessment Agency); Lisa Verwoerd (Athena Institute, Vrije Universiteit Amsterdam); Barbara Regeer (Athena Institute, Vrije Universiteit Amsterdam); Femke Verwest (PBL Netherlands Environmental Assessment Agency).*

C17 Moving together: problematizing the makings of togetherness

Convenors: Lisa Wood (Lancaster University); Sung-Yueh Perng (Tunghai University)
Cavendish Colloquim (Faraday Complex): **first of two sessions**

Travelling together: bioships in science fiction. *Ingvil Hellstrand (University of Stavanger).*

"Feed 'em and flog 'em": socio-technical enactments of togetherness in ambulance work. *Lisa Wood (Lancaster University).*

Makings of togetherness in blood. *Vera Raivola (University of Eastern Finland).*

Taking responsibility together: unpacking promises and problems in civic hacking. *Sung-Yueh Perng (Tunghai University).*

C19 Mainstreaming zero carbon buildings in Europe?

Convenors: Michael Ornetzeder (Austrian Academy of Sciences); Thomas Berker (Norwegian University of Science and Technology); Harald Rohracher (Linköping University)
FASS Building Meeting Room 1: **first of two sessions**

'One is hypothetical and one is real…'. Accounting for "error" in low-carbon building performance. *Catherine Willan (University College London); Russell Hitchings (University College London); Michelle Shipworth (University College London).*

The zero emission kindergarten at Lø: a contested site for a zero emission future. *Ruth Woods (Norwegian University of Science and Technology).*

Regulation and performance: lessons from the first and the second passive house school in Norway. *Thomas Berker (Norwegian University of Science and Technology).*

Towards the emergence of a zero carbon building sector in France: reflecting on the appropriation of regulation in online discussion forums. *Alexandre Mallard (MINES ParisTech, Université PSL).*

C23 STS meet ICT: politics and the collaborative turn in STS

Convenors: Peter Lyle (Madeira Interactive Technologies Institute); Mariacristina Sciannamblo (Madeira Interactive Technologies Institute); Maurizio Teli (Madeira Interactive Technologies Institute); Christopher Csikszentmihalyi (Madeira Interactive Technologies Institute)
Bowland North Seminar Room 20: **first of two sessions**

Data cultures from the Global South: decentering data universalism. *Stefania Milan (University of Amsterdam); Anita Chan (University of Illinois, Urbana-Champaign).*

Inverting the global internet surveillance infrastructure with IXmaps, the crowd-sourced mapping tool. *Andrew Clement (University of Toronto).*

Broadening ideas of interoperability in citizen science. *Claudia Göbel (European Citizen Science Association / Museum für Naturkunde).*

C25 Global health collaborations and alignments

Convenors: Patricia Kingori (The Ethox Centre, University of Oxford); Nora Engel (Maastricht University); Salla Sariola (University of Turku); Catherine Montgomery (University of Oxford)
FASS Building Meeting Room 2/3: **first of two sessions**

'Built for expansion': conditions of possibility and sites of performance for the WHO's mhGAP diagnostic algorithm. *Eva Hilberg (University of Sheffield); China Mills (University of Sheffield).*

Indigenous epistemologies in global health: WHO regulation of traditional medicine since Alma Ata 1978. *Francesco Salvini (University of Kent); Emilie Cloatre (University of Kent).*

Aligning to variable and shifting (user-) settings in developing point-of-care diagnostics for tuberculosis and HIV. *Nora Engel (Maastricht University).*

Lords of the fly: tracing tsetse control networks and the social proximity of sleeping sickness interventions in Uganda. *Shona Jane Lee (University of Edinburgh).*

E08 Topologies of race: bringing a touchy object in STS

Convenors: Lisette Jong (University of Amsterdam); Amade M'charek (University of Amsterdam)
Elizabeth Livingston Lecture Theatre (Bowland North): **first of two sessions**

Race in the New Life Sciences: how to analyze social and scientific effects of biological differentiations in Germany? *Andrea zur Nieden (Albert-Ludwigs-Universität Freiburg).*

The (in)visibilities of race through Forensic DNA Phenotyping technologies. *Filipa Queirós (University of Minho); Helena Machado (University of Minho); Rafaela Granja (University of Minho).*

Facing the unknown suspect. An inquiry into 'the face' generated through Forensic DNA Phenotyping. *Roos Hopman (University of Amsterdam).*

Race as a multiple object in contemporary biomedicine. *Anna Bredstrom (Linköping University).*

E10 Geographies of knowledge production and legacy of postsocialist technoscience

Convenors: Krzysztof Abriszewski (Nicolaus Copernicus University); Andrzej Wojciech Nowak (Adam Mickiewicz University); Marcin Zaród (Kozminski University)
Marcus Merriman Lecture Theatre (Bowland North): **first of two sessions**

The Internet development in Lithuania: (research) actors. *Migle Bareikyte (Leuphana University Lüneburg).*

Local ecological knowledges and the North-South knowledge divide: consequences for citizen science and participatory approaches. *Sara MacBride-Stewart (Cardiff University); Zeeda Fatimah Mohamad (University of Malaya).*

Meetings and relationalities instead of individuals and separated units. Reformulation of biological concepts for life sciences in XXI century. *Aleksandra Derra (Nicolas Copernicus University).*

The disappearance of the Second World, "suitcase science" - polish higher education reform and exclusion of technoscientific perspective. *Andrzej Wojciech Nowak (Adam Mickiewicz University).*

F05 Promissory encounters? Exploring innovations at the intersection of reproduction and genetics from a feminist STS perspective

Convenors: Cathy Herbrand (De Montfort University); Nolwenn Bühler (University of Neuchâtel)
Chair: Joanna Latimer (University of York)
Welcome Centre Lecture Theatre 4: **first of two sessions**

Non-invasive predictions: visual predictive tools in IVF. *Manuela Perrotta (Queen Mary University of London); Alina Geampana (Queen Mary University of London).*

Risky pregnancy? Women's choice and risk accountability of non-invasive prenatal diagnosis in Taiwan. *Liwen Shih (Taipei Medical University).*

"You are not ready to be a mum if you are not listening to a medical professional say it is not safe": how 'reproductive responsibility' affects family-building choices in women with Turner Syndrome. *Kristine Fearon (De Montfort University).*

Genetics, heritability and family histories: materialising the healthy egg donor in clinical screening practices. *Nicky Hudson (De Montfort University); Cathy Herbrand (De Montfort University); Catherine Coveney (University of Sussex).*

G04 Beyond market attachment: differentiating and explicating the role of 'policy devices' in organising economic matters

Convenors: Oz Gore (University of Leicester); Adam Brisley (University of Manchester); Simon Bailey (University of Manchester)
Bowland Hall Main Room: **single session**

Revisiting Callon's Singular Statements: is public management knowledge performative? *Oz Gore (University of Leicester).*

Keep diversity - make standards! Interbull as a space of international commensurability for cattle breeding standards. *Lidia Chavinskaia (Institut National de la Recherche Agronomique).*

Making up the numbers: quality improvement as a policy device for hard times. *Simon Bailey (University of Manchester); Adam Brisley (University of Manchester).*

Smarter together? Policy assemblages and economisation in the European Union. *Claudia Mendes Bernhard (Technical University of Munich).*

G07 STS for critical public health studies

Convenors: Ger Wackers (UiT The Arctic University of Norway); Rolf Andreas Markussen (UiT The Arctic University of Norway); Marthe Schille-Rognmo (UiT The Arctic University of Norway)
Bowland North Seminar Room 10: **first of two sessions**

Check here if you are mad, bad or sad: dLTC surveys and their consequences. *Marthe Schille-Rognmo (UiT The Arctic University of Norway).*

Reality capturing states of mind. *Ger Wackers (UiT The Arctic University of Norway).*

Digital epidemiology and the disruption of public health. *Lukas Engelmann (University of Edinburgh).*

Whose feedback is it anyway? Enacting agency in online health experience reports. *Farzana Dudhwala (Oxford University).*

V01 Promises and practices of biotechnologies

Chair: TBC
Bowland North Seminar Room 4: **single session**

Genome testing and the social ontology of childhood adoption. *Michael Arribas-Ayllon (Cardiff University).*

The value(s) of archiving transgenic mice: exploring the bioeconomies of animal research through a case study of mouse biobanks. *Sara Peres (University of Southampton); Emma Roe (University of Southampton).*

Rethinking the public versus private debate on UCB biobanking: the participation of donors in the processes of shaping UCB biobanking configurations in Greece. *Katerina Vlantoni (National and Kapodistrian University of Athens); Constantinos Morfakis (National and Kapodistrian University of Athens).*

V02 Epistemic contexts: questions of standards, credibility and expertise

Convenor: Dawn Goodwin (Lancaster University)
Faraday Complex Seminar Room 1: **single session**

To collaborate interdisciplinarily but work disciplinarily? Trading zone and the cognitive dynamics of interdisciplinary collaboration. *Lianghao Dai (Georg-August-Universität Göttingen).*

WHO child growth standards and the politics of child malnutrition measurement during early childhood. *Natalia Nino (University of Edinburgh).*

How do climate scientists use social media? Collusion and collision of personal, professional and epistemic contexts. *Warren Pearce (University of Sheffield).*

The use of digital forensic expertise in crime investigation: views from the field. *Dana Wilson-Kovacs (University of Exeter).*

Wednesday 25th July, 15:00-16:30

A06 Meeting (in) data

Convenors: Tahani Nadim (Humboldt University Berlin); Antonia Walford (University College London/ University of Copenhagen)
Discussant: Jennifer Gabrys (Goldsmiths, University of London)
Bowland Lecture Theatre (Bowland Main): **second of two sessions**

'Data basing' Danish educational governance - relations, 'gaps' and ontological experimentation. *Helene Ratner (Aarhus University); Christopher Gad (IT-University of Copenhagen).*

Biodiversity databases - wishful meetings, differing ontologies. *Minna Santaoja (University of Tampere).*

European Natural History Museums as part of a global biodiversity-research infrastructure. *Henk Koerten (Vrije Universiteit).*

To share or not to share: following the journeys of the data collected by citizen scientists. *Yuwei Lin (University of Stirling).*

A16 Infrastructures of the Anthropocene

Convenors: Martin Mahony (University of East Anglia); Martin Skrydstrup (Copenhagen Business School)
Bowland North Seminar Room 2: **second of two sessions**

Staying with speculation: natures, futures, politics. *Luke Moffat (Lancaster University).*

Artful farming and articulations of ecological care. *Line Marie Thorsen (Aarhus University).*

A20 Chemical entanglements: exploring ontologies at the atomic level

Convenors: Emma Cardwell (Glasgow University); Claire Waterton (Lancaster University)
Bowland North Seminar Room 6: **second of two sessions**

Nitrogen - too much of a good thing? *Carly Stevens (Lancaster University).*

Doing and re-doing phosphorus relations. *Claire Waterton (Lancaster University).*

Of indivisible a-toms and nuclear life worlds: an ethnographic framing of socio-chemical transformations in West Cumbria. *Petra Tjitske Kalshoven (University of Manchester).*

Sorting out the particles: following nano-particulates and their mobilities. *Gordon Walker (Lancaster University).*

A23 The politics of negative emissions

Convenors: Nils Markusson (Lancaster University); Duncan McLaren (Lancaster University); Rob Bellamy (University of Oxford)
Welcome Centre Lecture Theatre 2: **second of two sessions**

Perspectives on the science and politics of negative emissions in integrated assessment models. *Sean Low (Institute for Advanced Sustainability Studies).*

Conceptual vs. actual use of Greenhouse Gas Removal. *Oliver Geden (Max Planck Institute for Meteorology); Felix Schenuit (German Institute for International and Security Affairs).*

The techno-politics of negative emissions. *Duncan McLaren (Lancaster University); David Tyfield (Lancaster University); Nils Markusson (Lancaster University).*

A24 Disasters and participation: inventive/disruptive encounters

Convenors: Maggie Mort (Lancaster University); Israel Rodriguez-Giralt (Universitat Oberta de Catalunya)
Faraday Lecture Theatre (Faraday Complex): **second of two sessions**

Citizen science after the Fukushima nuclear accident: an encounter with bottom-up crisis management and post-disaster recovery. *Joke Kenens (SCK•CEN Belgian Nuclear Research Centre); Ine Van Hoyweghen (KU Leuven).*

Intimate evidence, experimental politics: DIY citizen sensing and the regimes of perceptibility of slow disasters. *Manuel Tironi (Pontificia Universidad Católica de Chile).*

Infernal encounters: extractive communities at the intersection of earth system and stratigraphic trouble. *Nigel Clark (Lancaster University); Lauren Rickards (RMIT University).*

Managing the "wave of helpers": socio-technical solutions for societal resilience. *Linda Madsen (University of Freiburg); Jens Hälterlein (University Freiburg).*

A26 More-than-human mobilities

Convenors: Jen Southern (Lancaster University); Samuel Thulin (Concordia University); Monika Buscher (Lancaster University)
Cavendish Lecture Theatre (Faraday Complex): **second of two sessions**

Hybrid assemblages on the move: a more-than-human understanding of pandemic threat identification and governance. *Jose Cañada (University of Helsinki).*

More-than-human hypermobilities: unravelling the entanglements and resonances of air travel in the Anthropocene. *Kaya Barry (Griffith University).*

Affective encounters with pollution data: growing augmented reality trees. *Jane Prophet (Stamps School of Art & Design, University of Michigan).*

The more-than of acceptable resonances in traffic mobilities. *Doerte Weig (KU Leuven).*

B05 Crafting attachments, making worlds

Convenors: Annelieke Driessen (University of Amsterdam); Else Vogel (Linköping University); Justine Laurent (University of Amsterdam)
Discussant: Marianne de Laet (Harvey Mudd College)
Bowland North Seminar Room 23: **second of two sessions**

Making clients to decide for themselves: turning people with learning difficulties into "modern subjects". *Zdeněk Konopásek (Charles University); Michal Synek (Charles University / Masaryk University); Radek Carboch (Masaryk University, Charles University).*

Mexicanness, hybrid attachments and the economy of passion. *Maximino Matus (El Colegio de la Frontera Norte).*

"Clean enough": attachments and detachments in practices of excretion. *Justine Laurent (University of Amsterdam).*

B09 Feminist figures: crafting intersections in theory and practice

Convenors: Kate O'Riordan (University of Sussex); Joan Haran (Cardiff University)
Welcome Centre Lecture Theatre 3: **second of three sessions**

Modelling cells in risky comakings and devious worlds. *Abigail Durrant (Northumbria University); Alex Taylor (City, University of London).*

"I would rather be a cyborg than a goddess": the meeting place/time of the spiral dance. *Joan Haran (Cardiff University).*

"... but the visual orientation of the mind persists". Of Kellerites, body talk and golden gypsies, so far: a journey to the inspirational roots of situated knowledges. *Myriam Raboldt (KoMMa.G TU Braunschweig).*

Sensing a constellation: dancing forward a desirable future. *Margaret Westby (Metropolitan College of New York).*

C04 Productive frictions: co-laboration and confluence in the work of new alliances

Convenors: Christine Schmid (Humboldt University of Berlin); Jonna Josties (Humboldt-Universität zu Berlin); Lauren Cubellis (Washington University in St. Louis)
Discussants: Jeannette Pols (University of Amsterdam), Joerg Niewoehner (Humboldt-Universität zu Berlin)
Frankland Lecture Theatre (Faraday Complex): **second of two sessions**

Transmutations in communities of expertise: being a good scientist in the innovation ecosystem. *Andie Thompson (University of Amsterdam).*

The formation of interest within innovation networks and the role of the anthropologist inside. *Jonna Josties (Humboldt-Universität zu Berlin).*

Rethinking the great divide: probing the tensions between anthropologists and data scientists through situated interventions. *David Moats (Linköping University).*

Sticky business: techniques to engage with the viscosity of practices in healthcare. *Jessica Mesman (Maastricht University); Suyin Hor (University of Technology Sydney).*

C11 Scientific meetings across disciplinary boundaries

Convenors: Miles MacLeod (University of Twente); Johan Munck af Rosenschöld (University of Helsinki)
Frankland Colloquium (Faraday Complex): **second of two sessions**

'Doing' interdisciplinarity - experiences of researchers in urban sustainability. *Ashley Lewis (University of Nottingham).*

Imaginary friends - interdisciplinarity and digitalization as two imaginaries covering each other's back in times of uncertainty. *Silvio Suckow (WZB Berlin Social Science Center).*

Interdisciplinary research in law and forensic science: from 'silos' to systems. *Karen Richmond (University of Dundee / European Graduate School).*

C17 Moving together: problematizing the makings of togetherness

Convenors: Lisa Wood (Lancaster University); Sung-Yueh Perng (Tunghai University)
Cavendish Colloquim (Faraday Complex): **second of two sessions**

Sound publics: imaginations of the public inscribed in a Japanese public loudspeaker system. *Naoki Matsuyama (University of Vienna).*

Hackathons as space-times of creative togetherness: dystopian and utopian hues of ideals and their realisation. *Peter Müller (Munich Center for Technology in Society).*

Risky borders: designing togetherness using information technology for interoperability in disaster response. *Katrina Petersen (Trilateral Research, Ltd).*

C19 Mainstreaming zero carbon buildings in Europe?

Convenors: Michael Ornetzeder (Austrian Academy of Sciences); Thomas Berker (Norwegian University of Science and Technology); Harald Rohracher (Linköping University)
FASS Building Meeting Room 1: **second of two sessions**

Mainstreaming passive houses in Sweden: institutional perspectives from two regions. *Johan Niskanen (Linkopings University); Harald Rohracher (Linköping University).*

Mainstreaming energy efficient buildings in Austria. *Michael Ornetzeder (Austrian Academy of Sciences); Harald Rohracher (Linköping University).*

C23 STS meet ICT: politics and the collaborative turn in STS

Convenors: Peter Lyle (Madeira Interactive Technologies Institute); Mariacristina Sciannamblo (Madeira Interactive Technologies Institute); Maurizio Teli (Madeira Interactive Technologies Institute); Christopher Csikszentmihalyi (Madeira Interactive Technologies Institute)
Bowland North Seminar Room 20: **second of two sessions**

STS meet Participatory Design for social good: the case of Commonfare. *Mariacristina Sciannamblo (Madeira Interactive Technologies Institute).*

Articulating assemblages of playbour to question participation in ICT-based collaborative platforms. *Giacomo Poderi (IT University of Copenhagen).*

From the virtual communities of digital commons to the phygital practices of makerspaces: an intersectional feminist study. *Natalia- Rozalia Avlona (Aristotle University of Thessaloniki).*

Out here and in there: intervening in HCI's outwardly moves from the comfort of the ubicomp home. *Xaroula Kerasidou (Lancaster University).*

C25 Global health collaborations and alignments

Convenors: Patricia Kingori (The Ethox Centre, University of Oxford); Nora Engel (Maastricht University); Salla Sariola (University of Turku); Catherine Montgomery (University of Oxford)
FASS Building Meeting Room 2/3: **second of two sessions**

Living-with microbes in the era of antimicrobial resistance. *Salla Sariola (University of Turku); Elina Oinas (University of Helsinki).*

Managing superbugs and desire to belong in Latvia. *Zane Linde-Ozola (University of Leeds).*

D04 Outlaw innovation and the invention of the outlaw

Convenors: Maxigas . (Lancaster University); Johan Soderberg (Göteborg University)
Bowland Hall Main Room: **single session**

Narcosubmarines: outlaw innovation and maritime interdiction in the war on drugs. *Javier Guerrero C (Instituto Tecnológico Metropolitano).*

The social construction of risk and value in information security: recuperation versus détournement. *Maxigas . (Lancaster University).*

The legal grey zone as an incubator of innovation: from drugs to pharma. *Johan Soderberg (Göteborg University).*

Self-regulation vs. precautionary principle: governing uncertainty in and around DIY biology in Europe and North America. *Anna Verena Eireiner (Munich Center for Technology in Society).*

E08 Topologies of race: bringing a touchy object in STS

Convenors: Lisette Jong (University of Amsterdam); Amade M'charek (University of Amsterdam)
Elizabeth Livingston Lecture Theatre (Bowland North): **second of two sessions**

The interpretation of blood: how blood group anthropology imagined assimilation and rationalized discrimination in the colonial Korea. *Joon Young Jung (Soul National University); Hyomin Kim (Ulsan National Institute of Science and Technology).*

Permanent temporality: doing race and the citizen in practices of issuing temporary ID cards in Romania. *Ildikó Plájás (University of Amsterdam).*

Working with stereotypes in facial composite drawing. *Ryanne Bleumink (University of Amsterdam).*

The edges of vitality: race, infrastructure, and the moral boundaries of the state. *Norma Möllers (Queen's University).*

E10 Geographies of knowledge production and legacy of postsocialist technoscience

Convenors: Krzysztof Abriszewski (Nicolaus Copernicus University); Andrzej Wojciech Nowak (Adam Mickiewicz University); Marcin Zaród (Kozminski University)
Marcus Merriman Lecture Theatre (Bowland North): **second of two sessions**

Suitcase science and after. Structures of semi-peripheral knowledge production. *Krzysztof Abriszewski (Nicolaus Copernicus University).*

Transformation processes after 1989 reflected in changes to Czech industrial chemical research institutes. *Nina Fárová (Institute of Sociology, Czech Academy of Sciences); Hana Dankova (Institute of Sociology, Czech Academy of Sciences).*

"You can taste it in the wine": making minerality matter in post-socialist Hungary. *June Brawner (University of Georgia); Jennifer Thompson (University of Georgia); Aaron Thompson (University of Georgia).*

Improvise. Adapt. Overcome. - Key examples of post-soviet military equipment solutions in development of armed forces in central Europe after the Cold War. *Piotr Krzyzanski (Adam Mickiewicz University).*

F01 Machine learning, social learning

Convenor: Jack Stilgoe (University College London)
Bowland North Seminar Room 7: **single session**

Can machines learn to save energy? *Thomas Turnbull (Max Planck Institute for the History of Science).*

Making machine learn - ethnographic insights on learning algorithms in the field of robotics. *Arne Maibaum (Technical University of Berlin).*

Responsible innovation as social learning. *Jack Stilgoe (University College London).*

F05 Promissory encounters? Exploring innovations at the intersection of reproduction and genetics from a feminist STS perspective

Convenors: Cathy Herbrand (De Montfort University); Nolwenn Bühler (University of Neuchâtel)
Chair: Joanna Latimer (University of York)
Welcome Centre Lecture Theatre 4: **second of two sessions**

"It's very simple, they ... just get it done there" - reproductive technologies, gene editing, and moral geographies as sense making devices. *Sarah Bieszczad (University of Vienna).*

Powering life: exploring the bio-objectification of mitochondria in reproduction. *Nolwenn Bühler (University of Neuchâtel); Cathy Herbrand (De Montfort University).*

When "do it yourself" with cryopreserved semen becomes unsafe. *Stine Willum Adrian (Aalborg University).*

Reproductive medicine and biopolitical strategies in Germany. *Susanne Schultz (Goethe University Frankfurt).*

G07 STS for critical public health studies

Convenors: Ger Wackers (UiT The Arctic University of Norway); Rolf Andreas Markussen (UiT The Arctic University of Norway); Marthe Schille-Rognmo (UiT The Arctic University of Norway)
Bowland North Seminar Room 10: **second of two sessions**

Algorithmic populations: Markov chain modelling and the making of a 'national' HPV vaccination programme. *Oscar Javier Maldonado Castaneda (University of Rosario).*

The anthropology of health disobedience. *Rolf Andreas Markussen (UiT The Arctic University of Norway).*

EU blood supply risk governance and MSM deferral in Europe: longitudinal case study of sociotechnical imaginaries mobilized in the public debate on the deferral of Men who have Sex with Men in Belgium. *Nathan Wittock (Ghent University); Lesley Hustinx (Ghent University).*

V03 Expertise, publics and anticipations

Chair: Elspeth Oppermann (Charles Darwin University)
Faraday Complex Seminar Room 1: **single session**

Collaboration beyond disciplinary boundaries - meetings in outreach activities. *Maria Strecht Almeida (Universidade do Porto).*

How to conceal a 395-acre oil handling terminal: landscape and visual impact analysis at Flotta, Orkney, 1969-1978. *Moa Karolina Carlsson (MIT).*

Anticipation as a normative practice. Life science researchers' anticipatory practices between care and managerialism. *Lisa Sigl (University of Vienna); Maximilian Fochler (University of Vienna); Ulrike Felt (University of Vienna).*

Dirty dancing on democratic stages: knowledge that matters in nuclear waste experiments. *Céline Parotte (University of Liège).*

Thursday 26th July, 09:00-10:30

A04 Involving compounds

Convenors: Dimitris Papadopoulos (University of Leicester); Manuel Tironi (Pontificia Universidad Católica de Chile); Maria Puig de la Bellacasa (University of Leicester)
Bowland North Seminar Room 6: **first of three sessions**

Prototyping a new sanitation system: socio material relations and shifting norms. *Rebeca Ibañez Martin (University of Amsterdam).*

Encountering anthroposols: vitality, risk and anger on Tierra Amarilla. *Sebastian Ureta (Universidad Alberto Hurtado).*

Cement and the material form as bearer of responsibility and accountability. *Daniel Neyland (Goldsmiths, University of London); Véra Ehrenstein (Goldsmiths, University of London).*

Involving the future: compounding the composition of the fatberg. *Mike Michael (University of Exeter).*

A07 Techno-scientific expertise and geographical imaginaries in the making of new resource frontiers

Convenors: Alena Bleicher (Helmholtz Centre for Environmental Research GmbH - UFZ); Paul Gilbert (University of Sussex)
Discussant: Nigel Clark (Lancaster University)
Bowland North Seminar Room 2: **single session**

The role of framing technologies used by techno-scientific experts to make secondary resources. *Alena Bleicher (Helmholtz Centre for Environmental Research GmbH - UFZ); Martin David (Helmholtz Centre for Environmental Research GmbH - UFZ); Henriette Rutjes (Helmholtz Centre for Environmental Research GmbH - UFZ).*

Energy from magma: the emergence of a new 'science infrastructure'. *Alexandra Gormally (Lancaster University).*

Geocapital: geological expertise, financialised valuation & extractive industry frontiers. *Paul Gilbert (University of Sussex).*

Lunar extractivism: scientists and mining companies' shared ambitions in the European Space Agency's Moon Village concept. *Tamara Alvarez (The New School).*

Making coltan. Technologies, expertise, and knowledge in Sierra Leone mining. *Lorenzo D'Angelo (University of Milano-Bicocca); Fenda Akiwumi (University of South Florida).*

A11 Encountering energy in systems and everyday spaces

Convenors: Eefje Cuppen (Delft University of Technology); Karen Henwood (Cardiff University); Nick Pidgeon (Cardiff University)
Faraday Lecture Theatre (Faraday Complex): **first of three sessions**

Heating controllers as boundary objects between homes and energy infrastructures. *Clare Hanmer (University College London); Charlotte Johnson (University College London); Michelle Shipworth (University College London).*

Creating energy encounters with experts: a cultural probes-based approach. *Nick Pidgeon (Cardiff University); Karen Henwood (Cardiff University); Christopher Groves (Cardiff University).*

When institutions do not help: making and mending sustainable energy systems at home. *Alice Dal Gobbo (Cardiff University).*

Techno-scientific promises as a negation of the future. The case of Enhanced Geothermal Systems. *Olivier Ejderyan (ETH Zurich).*

A17 Making Outer Space

Convenors: Valentina Marcheselli (University of Edinburgh); Deborah Scott (University of Edinburgh)
Bowland North Seminar Room 23: **first of two sessions**

Exoplanetology as "proximisation" policy. *Eve Seguin (Université du Québec à Montréal).*

Engineering the biogeochemical planet: how life support systems shape earthly forms of life. *Filippo Bertoni (Aarhus University).*

Towards an anthropology of gravity: body and affect in the extra-terrestrial. *Aaron Parkhurst (University College London); David Jeevendrampillai (University College London).*

Terracentric ontologies/epistemologies and the limits of thinking outside and beyond the Earth. *Craig Jones (Lancaster University).*

A22 Farming data – collaborations on site

Convenors: Christine Hanke (University of Bayreuth); Ulrike Beisel (University of Bayreuth); Susanne Bauer (University of Oslo)
Discussant: Tahani Nadim (Museum für Naturkunde and Humboldt University of Berlin)
Bowland Lecture Theatre (Bowland Main): **first of two sessions**

Locating the data centre. Attending to place in the study of cloud computing. *Susanne Bauer (University of Oslo); Christine Hanke (University of Bayreuth).*

Prospecting the domains: data, knowledge, software and much else. *David Ribes (University of Washington).*

The more GPUs you buy, the more money you save: images in data centres. *Adrian Mackenzie (Lancaster University).*

Preparing for future value - collaboration in big data labs. *Laura Kocksch (Ruhr-University Bochum).*

B09 Feminist figures: crafting intersections in theory and practice

Convenors: Kate O'Riordan (University of Sussex); Joan Haran (Cardiff University)
Welcome Centre Lecture Theatre 3: **third of three sessions**

Mother nature, earth as mother and queer cyborggoddesses: refiguring (eco)feminist genealogies through Clayoquot Sound. *Niamh Moore (University of Edinburgh).*

Time travel as research method for reverse engineering feminist archives. *Niamh Moore (University of Edinburgh); Niamh Moore (University of Edinburgh); Niamh Moore (University of Edinburgh).*

Opening an ecological differently speculative ethics? *Guillem Palà (Autonomous University of Barcelona).*

Re-crafting indexical issues: a spherology of feminisms explicated by visual means. *Amanda Windle (University of the Arts London).*

C03 Empirical bioethics in STS. Making science, technology and society in research and deliberative spaces

Convenors: Matthias Wienroth (Newcastle University); Jackie Leach Scully (Newcastle University); Madeleine Murtagh (Newcastle University); Ilke Turkmendag (Newcastle University)
Frankland Lecture Theatre (Faraday Complex): **first of two sessions**

Responsible innovation in action: spaces for socio-ethical reflection on synthetic biology. *Ken Taylor (Newcastle University); Simon Woods (Newcastle University).*

Citizens' negotiations of information, value and reciprocity in the biobank context. *Melanie Goisauf (University of Vienna); Susanne Oechsner (University of Vienna).*

Empirical imaginaries of care robots in a children's hospital. *Miquel Domènech (Universitat Autònoma de Barcelona); Núria Vallès-Peris (Universitat Autònoma de Barcelona).*

Who's afraid of ghosts? Ethics, data, and disconnected collaboration in epidemiological research. *Mwenza Blell (Newcastle University).*

C12 Colliding theories, cultures, and futures. STS view(s) beyond the horizon. Or: STS diaspora

Convenors: Melike Sahinol (Orient-Institute Istanbul); Harun Kaygan (Middle East Technical University); Cansu Guner-Birdal (Technical University of Munich); Arsev Aydinoglu (Middle East Technical University)
Bowland North Seminar Room 20: **first of three sessions**

Anticolonial science and technology: seizing the means of liberation? *Sophie Toupin (McGill University).*

Why Bogotá? The local, the global, and the interesting. Or: STS, here and there. *Malcolm Ashmore (Loughborough University); Olga Restrepo Forero (Universidad Nacional de Colombia).*

Banking on blood: the science, market and traditional methods of umbilical cord blood storage in South India. *Amishi Panwar (The Graduate Institute, Geneva).*

Potentials of a widened concept of culture for gender research in STS. The example of Chinese and Indian female doctoral researchers in computer science at German universities. *Katharina Losch (Ostfalia University of Applied Sciences).*

C13 Assembling the smart city: exploring the contours of social difference

Convenors: Alan-Miguel Valdez (Open University); Matthew Cook (Open University); Nick Bingham (Open University)
FASS Building Meeting Room 1: **first of two sessions**

Datafied spaces: (re)figurating the city as laboratory. *Sandra Balbierz (University Eichstätt-Ingolstadt).*

Exploring problem-centred smart / digital urbanism in Australia. *Ralph Horne (RMIT University); Lauren Rickards (RMIT University).*

Transformative visions of IoT: whose visions, whose rights, whose responsibilities? *Naomi Jacobs (University of Aberdeen); Karen Salt (University of Nottingham).*

Partial platforms: the everyday life of oligoptic geospatial technologies in the neoliberal city. *Debra Mackinnon (Queen's University); David Murakami Wood (Queen's University).*

C14 Smugglers, idiots and loyal cheats: situated intervention as method out of control

Convenors: Martina Klausner (Humboldt-University); Teun Zuiderent-Jerak (Linköping University)
Chair: Judith Igelsböck (Technical University of Munich)
FASS Building Meeting Room 2/3: **first of three sessions**

Reconfiguring 'sexting': contrasting interventions in contentious debates. *Willemijn Krebbekx (University of Amsterdam).*

Reconfiguring motivation as emerging motives in evolving collectives. *Morten Nissen (Aarhus University); Sebastian Tobias-Renstrøm (Aarhus University).*

Architectural intraventions: pedagogical experiments with 'technical democracy' in design studio projects. *Tomás Criado (Humboldt University of Berlin).*

C20 Software & organisation

Convenors: Armin Beverungen (University of Siegen); Lisa Conrad (Leuphana University Lüneburg); Paula Bialski (Leuphana University Lüneburg)
Bowland Hall Main Room: **first of three sessions**

Coding for the common good - writing software in organizations with care. *Tobias Boczanski (Goethe University Frankfurt); Laura Kocksch (Ruhr-University Bochum).*

Error-driven development? On confluences between agile development methods, the character of software and errors as actors. *Roman Tischberger (Augsburg University).*

The dependence of agile software project organization on agile software development tools. *Matthias Bottel (Technical University of Berlin); Ingo Schulz-Schaeffer (Technical University of Berlin).*

CW04 The European Research Council: funding science by and through scientists (Workshop)

Convenor: Lionel Thelen (European Research Council)
Frankland Colloquium (Faraday Complex): **single session**

E09 Experiments in democracy

Convenors: Jason Chilvers (University of East Anglia); Helen Pallett (University of East Anglia)
Elizabeth Livingston Lecture Theatre (Bowland North): **first of three sessions**

Doing "deliberative mini-publics": tracing translocal networks of experimentation with democratic innovations - does politics become technologized? *Jan-Peter Voß (Berlin University of Technology); Volkan Sayman (Technical University of Berlin); Sina Birkholz (Technical University of Berlin).*

Converging in dialogue? Nanotechnology as multi- and transnational field of democratic experimentation. *Franz Seifert.*

Politicising or depoliticising public participation: civil society lobbying and e-petitions in pro-vaccination public support. *Samantha Vanderslott (University of Oxford).*

Social media governance, controversies and democratic possibilities. *Chiara Poletti (Cardiff University).*

F02 Health professionals' adaptation to societal and economic uncertainties, intensifying demands and growing challenges to healthcare provision

Convenors: Assaf Givati (University of Portsmouth); Mick Harper (University of Portsmouth)
Bowland North Seminar Room 7: **first of three sessions**

The bargaining of professionalism in emergency care practice: NHS paramedics and higher education. *Assaf Givati (University of Portsmouth).*

Visible persons, invisible work? Exploring articulation work in person-centered care. *Doris Lydahl (University of Gothenburg).*

The contribution of internet use in personal networks of support for long-term condition self-management. *Chris Allen (University of Portsmouth).*

Ecology of care. A more-than-institutional analysis of healthcare in the urban space of Trieste, Italy, and London, UK. *Francesco Salvini (University of Kent).*

F04 STS and normativity-in-the-making: good science and caring practices

Convenors: Jonna Brenninkmeijer (Academic Medical Centre, University of Amsterdam); Annemarie van Hout (Windesheim University of Applied Sciences); Jeannette Pols (Academic Medical Centre, University of Amsterdam); Dick Willems (Academic Medical Centre, University of Amsterdam); Sonja Jerak-Zuiderent (Academic Medical Centre, University of Amsterdam); Vicky Singleton (Lancaster University)
Welcome Centre Lecture Theatre 4: **first of three sessions**

Caring for science/worlds in the making - philosophy's involvement in primary education. *Sonja Jerak-Zuiderent (Academic Medical Centre, University of Amsterdam).*

Caring for quality of life? Normativities in the making on a dialysis ward. *Anna Mann (University of Copenhagen).*

The case of Bob: caring for telecare by nurses and researchers. *Annemarie van Hout (Windesheim University of Applied Sciences).*

Thinking through alternatives: a case of research on unconventional medicine. *Tereza Stockelova (Institute of Sociology of the Czech Academy of Sciences).*

F06 Making science and diplomacy: historical and contemporary entanglements

Convenors: Maria Paula Diogo (Universidade Nova de Lisboa); Luísa Veloso (ISCTE - Instituto Universitário de Lisboa); Paula Urze (Universidade Nova de Lisboa)
Marcus Merriman Lecture Theatre (Bowland North): **single session**

Politics by other means? Czech chemical industrial R&D institutes before and after 1989. *Hana Dankova (Institute of Sociology, Czech Academy of Sciences); Nina Fárová (Institute of Sociology, Czech Academy of Sciences).*

A beacon for science? The soft power of regional research museums in a post-fact era. *Holly Alexa Hasted (UiT The Arctic University of Norway).*

The global supercomputer race: geopolitics and the discourse of competitiveness. *Nil Uzun (Rutgers University).*

F07 Methodography of data practices in STS's ethnographic collaboration and participant observation

Convenors: Ingmar Lippert (Museum für Naturkunde Berlin); Julie Sascia Mewes (Humboldt University Berlin)
Bowland North Seminar Room 4: **first of three sessions**

Inciting infrastructural inversion: modes of engagement in the ethnography of data-intensive science. *Charles Hahn (University of Washington); Sarah Inman (University of Washington); David Ribes (University of Washington); Stephen Slota (University of California, Irvine); Andrew Hoffman (University of Washington).*

From hospital to code and back again. Data transformations in interdisciplinary cooperation. *Cornelius Schubert (Universität Siegen); Judith Willkomm (Universität Siegen).*

"Life of Things Project": being useful as a way of knowing. *Alexandra Endaltseva (EHESS Linköping University).*

Making landscape in ethnography: the trip to the ice cave and storytelling on Svalbard Archipelago. *Eva Kotaskova (Masaryk University).*

F11 Technopolitics of integration. Charting imaginaries of innovation in the European Union

Convenors: Ine Van Hoyweghen (KU Leuven); Jim Dratwa (European Commission and Woodrow Wilson Center); Luca Marelli (Katholieke Universiteit Leuven)
Faraday Complex Seminar Room 1: **first of three sessions**

"Data protection is a fundamental right in Europe". Examining sociotechnical imaginaries of search engines and a European identity. *Astrid Mager (Austrian Academy of Sciences).*

Policy framing of risks and opportunities of an emerging technology: the case of Artificial Intelligence. *Inga Ulnicane (De Montfort University); Bernd Stahl (De Montfort University); Tyr Fothergill (De Montfort University).*

Visions of unification and integration: an ethnography of the European Human Brain Project. *Tara Mahfoud (King's College London).*

G03 Technologies that count: big data and social order

Convenors: Anne K. Krueger (Humboldt University Berlin); Norma Möllers (Queen's University)
Bowland North Seminar Room 10: **first of three sessions**

Big data and the anticipated reshaping of the patient-physician relationship. *Margo Bernelin (University of Nantes).*

Domesticating digital insurance. *Maiju Tanninen (University of Tampere).*

A new form of social ordering? Investigating the impact of datafication practices on regulation. *Florian Irgmaier (Weizenbaum Institute for the Networked Society); Florian Eyert (Weizenbaum Institute for the Networked Society); Lena Ulbricht (WZB Berlin Social Science Center); Rainer Rehak (Weizenbaum-Institut für die vernetzte Gesellschaft).*

V04 Imagining and making futures

Chair: Nils Markusson (Lancaster University)
Welcome Centre Lecture Theatre 2: **single session**

Future as infeasible, desirable and unimaginable: an analysis of lay public imaginaries of the 2°C goal and low-carbon energy transitions. *Shinichiro Asayama (Waseda University); Midori Aoyagi (National Institute for Environmental Studies, Japan).*

Disposable bodies: robots and care in Real Humans. *Amelia DeFalco (University of Leeds).*

Freezing life, escaping death? Cryonics as a meeting point of transhumanist visions. *Franziska von Verschuer (Goethe University Frankfurt/Main).*

Thursday 26th July, 11:00-12:30

A04 Involving compounds

Convenors: Dimitris Papadopoulos (University of Leicester); Manuel Tironi (Pontificia Universidad Católica de Chile); Maria Puig de la Bellacasa (University of Leicester)
Bowland North Seminar Room 6: **second of three sessions**

Creating atmospheric compounds through human and nonhuman involvements. *Nerea Calvillo (University of Warwick).*

Intensive scales: what is an ecologically obliged chemistry? *Dimitris Papadopoulos (University of Leicester).*

Cosmic compounds, or electromagnetic politics against the Anthropocene. *Manuel Tironi (Pontificia Universidad Católica de Chile).*

Making urban worlds: involving citizens, particles, sensors and cities. *Jennifer Gabrys (Goldsmiths, University of London).*

A08 What do we still not know about the IPCC?

Convenors: Jasmine Livingston (Lund University); Tommaso Venturini (École Normale Supérieure Lyon); Kari De Pryck (University of Geneva)
Cavendish Lecture Theatre (Faraday Complex): **first of two sessions**

Why is there early career scientists in IPCC? *Karin M Gustafsson (Örebro University).*

The history and politics of the carbon budget. *Bård Lahn (CICERO Center for International Climate Research).*

International expertise under 'controversy'. The case of the IPCC. *Kari De Pryck (University of Geneva).*

A topography of climate change research. *Max Callaghan (Mercator Research Institute on Global Commons and Climate Change).*

A11 Encountering energy in systems and everyday spaces

Convenors: Eefje Cuppen (Delft University of Technology); Karen Henwood (Cardiff University); Nick Pidgeon (Cardiff University)
Faraday Lecture Theatre (Faraday Complex): **second of three sessions**

Korean traditional beliefs and energy transition: pungsu, shamanism, and the local perception of wind turbines. *Eun-Sung Kim (Kyung Hee University).*

Nuancing NIMBYism: examining perspectives on the practice of community engagement in energy projects. *Elisabeth van de Grift (Delft University of Technology); Shannon Spruit (Delft University of Technology); Eefje Cuppen (Delft University of Technology).*

Smart solutions, private households and control; a case study of experimental projects. *Sophie Nyborg (Technical University of Denmark); Meiken Hansen (Technical University of Denmark).*

Switching things on and off: encountering and monetising demand-responsiveness in dispersed electricity-using technologies. *Mette Kragh-Furbo (Lancaster University).*

A17 Making Outer Space

Convenors: Valentina Marcheselli (University of Edinburgh); Deborah Scott (University of Edinburgh)
Bowland North Seminar Room 23: **second of two sessions**

Unearthing the Moon's secrets: science and extractivism in ESA's and NASA's lunar station concepts. *Tamara Alvarez (The New School).*

On the social afterlife of space-junk. *Valentina Marcheselli (University of Edinburgh).*

Space tourism: a case of novel needs. *Harro van Lente (Maastricht University).*

A22 Farming data – collaborations on site

Convenors: Christine Hanke (University of Bayreuth); Ulrike Beisel (University of Bayreuth); Susanne Bauer (University of Oslo)
Discussant: Tahani Nadim (Museum für Naturkunde and Humboldt University of Berlin)
Bowland Lecture Theatre (Bowland Main): **second of two sessions**

Data meets electronic waste: practices and temporalities of a transformative encounter. *Katrin Amelang (University of Bremen); Franziska Klaas (University of Bremen).*

The cloud at the horizon of the internet infrastructure. *Andreas Baur (University of Tübingen).*

Promissory collaborations: Big-Tech datacenters and the state. *James Maguire (IT University of Copenhagen).*

A30 Meeting alternative energetic materialities

Convenor: Dagmar Lorenz-Meyer (Charles University)
Bowland North Seminar Room 2: **single session**

Meeting photovoltaics: a plea for technoecological analysis. *Dagmar Lorenz-Meyer (Charles University).*

Wind, power, and the situatedness of community engagement. *Hyomin Kim (Ulsan National Institute of Science and Technology).*

Enacting a responsive energy technology in the aftermath of a disaster: locality, materiality and an alternative imagination. *Chihyuan Yang (Lancaster University).*

Food that matters: exploring the material-discursive boundaries between animal-sourced and vegan food practices. *Steffen Hirth (Sustainable Consumption Institute, University of Manchester).*

AW02 Infrastructuring in STS: what does infrastructuring look like? When does it look like that? (Workshop)

Convenors: Hanne Cecilie Geirbo (University of Oslo); Helena Karasti (University of Oulu); Andrea Botero (University of Oulu); Joanna Saad-Sulonen (IT University of Copenhagen); Sanna Marttila (IT University of Copenhagen)
Chair: Karen Baker (University of Oulu; UIUC)
Discussant: Elena Parmiggiani (Norwegian University of Science and Technology)
Welcome Centre Lecture Theatre 2: **first of two sessions**

B01 Joining together cells and tissues: novel in vitro technologies in context

Convenors: Neil Stephens (Brunel University London); Niki Vermeulen (University of Edinburgh)
Welcome Centre Lecture Theatre 3: **first of to sessions**

Authenticating manufactured human cells for regenerative medicine. *Linda Hogle (University Wisconsin-Madison).*

T-cell immunotherapy an ethnographic case study in progress: a donors registry and a cell bank. *Violeta Argudo Portal (Autonomous University of Barcelona).*

Big Tissue: on mass producing body parts in vitro. *Neil Stephens (Brunel University London).*

The promise and challenges of human and animal stem cell tissue economies. *Elisabeth Abergel (Université du Québec à Montréal); Céline Lafontaine (Université de Montréal).*

B07 Situating designs

Convenors: Yana Boeva (York University); Peter Fuzesi (Lancaster University)
Discussants: Alex Wilkie (Goldsmiths, University of London), Daniela Rosner (University of Washington)
Cavendish Colloquim (Faraday Complex): **first of two sessions**

Situating design in architecture: reflections on spatial-visual knowledge in architectural design education. *Bernhard Böhm (ETH Zurich).*

(Re)framing engagements in and with design - abduction, design synthesis, and the implication of heterogeneous actors through 'domestication'. *Yutaka Yoshinaka (Technical University of Denmark).*

Who gets to situate design? Reflections from engaging with diversity in design. *Nicholas Baroncelli Torretta (Umeå University); Heather Wiltse (Umeå University); Xaviera Sánchez de la Barquera (Umeå University).*

The mundane and strategic work in collaborative design. *Sampsa Hyysalo (Aalto University).*

C03 Empirical bioethics in STS. Making science, technology and society in research and deliberative spaces

Convenors: Matthias Wienroth (Newcastle University); Jackie Leach Scully (Newcastle University); Madeleine Murtagh (Newcastle University); Ilke Turkmendag (Newcastle University)
Frankland Lecture Theatre (Faraday Complex): **second of two sessions**

Epistemic authority in deliberative and interpretive empirical bioethics. *Jackie Leach Scully (Newcastle University).*

Empirical bioethics provocation: getting our hands dirty - necessary tensions in intersectoral and interdisciplinary collaboration and co-production. *Madeleine Murtagh (Newcastle University).*

Negotiating bioethics of reproductive donation in Taiwan and Japan. *Yu-ling Huang (National Cheng-Kung University).*

C12 Colliding theories, cultures, and futures. STS view(s) beyond the horizon. Or: STS diaspora

Convenors: Melike Sahinol (Orient-Institute Istanbul); Harun Kaygan (Middle East Technical University); Cansu Guner-Birdal (Technical University of Munich); Arsev Aydinoglu (Middle East Technical University)
Bowland North Seminar Room 20: **second of three sessions**

The Alleluia syncretic revitalization movement. *Daniel Cooper (University of Oxford).*

Uses of ANT in design research: towards a critical dialogue. *Ali O. Ilhan (Ozyegin University); Harun Kaygan (Middle East Technical University); Sebnem Timur Ogut (Istanbul Technical University).*

Doing ethnography at home: a reflection from post-disaster Fukushima. *Kaoru Miyazawa (Gettysburg College).*

Togetherness and co-creation in a VUCA-world - chances and challenges. *Ursula Caser (Technical University of Munich).*

C13 Assembling the smart city: exploring the contours of social difference

Convenors: Alan-Miguel Valdez (Open University); Matthew Cook (Open University); Nick Bingham (Open University)
FASS Building Meeting Room 1: **second of two sessions**

The smart city as conscription device: negotiating the politics of emptiness in Santiago de Chile. *Ignacio Perez (University of Oxford); Martin Tironi (Pontificia Universidad Católica de Chile).*

Enacting social difference through smart city tech: the gathering of groupings through a platform. *Oliver Zanetti (University of Oxford); Parvati Raghuram (Open University).*

Smart cities in the making: learning from Milton Keynes. *Nick Bingham (Open University); Gillian Rose (University of Oxford); Alan-Miguel Valdez (Open University); Matthew Cook (Open University).*

C14 Smugglers, idiots and loyal cheats: situated intervention as method out of control

Convenors: Martina Klausner (Humboldt-University); Teun Zuiderent-Jerak (Linköping University)
Chair: Judith Igelsböck (Technical University of Munich)
FASS Building Meeting Room 2/3: **second of three sessions**

Intervening in urban strategy. *Ask Jørgensen (Aalborg University).*

Co-production, intervention and experimentation in science governance: STS and Future Earth. *Eleanor Hadley Kershaw (University of Nottingham).*

Doing participatory urbanism: traps and tropes for technical democratization. *Ignacio Farias (Humboldt University of Berlin).*

C20 Software & organisation

Convenors: Armin Beverungen (University of Siegen); Lisa Conrad (Leuphana University Lüneburg); Paula Bialski (Leuphana University Lüneburg)
Bowland Hall Main Room: **second of three sessions**

Softare and organizing: the case of a telemedicine toolkit to manage emergencies in nursing homes. *Gérald Gaglio (University of Nice Sophia Antipolis).*

Organizing algorithmic explanations. *Bastian Jørgensen (IT University of Copenhagen).*

The "invisible work" of data management systems in Big Science: following the development of the European Spallation Source. *Katherine Harrison (Lund University).*

C28 Meetings over and around food

Convenors: Allison Loconto (Institut National de la Recherche Agronomique); Isabel Fletcher (University of Edinburgh); Katerina Psarikidou (Lancaster University); Kathryn Packer (City, University of London); Claire Marris (Centre for Food Policy)
Frankland Colloquium (Faraday Complex): **first of four sessions**

Meeting 'territories' in food markets. *Allison Loconto (Institut National de la Recherche Agronomique).*

Meetings and marketplace platforms: platform capitalism and the mediation of food encounters. *Jeremy Brice (London School of Economics).*

Doing 'good coffee'? Explorations on the sociomateriality of taste in the specialty coffee market. *Derly Yohanna Sanchez Vargas (Lancaster University).*

What is the 'right price' for food? The French "Etats Généraux de l'Alimentation" and the attempt to tame markets. *Pierre-Benoit Joly (INRA/UPEM).*

E05 Assembly, silence and dissent in the design and use of gerontechnologies

Convenors: Daniel Lopez Gomez (Universitat Oberta de Catalunya); Alexander Peine (Utrecht University); Louis Neven (Avans University of Applied Sciences)
Marcus Merriman Lecture Theatre (Bowland North): **first of two sessions**

Wag the dog - how robotics configures care situations. *Andreas Bischof (Chemnitz University of Technology).*

Matters of concern in welfare technology. *Michela Cozza (Mälardalen University); Lucia Crevani.*

Matters of time - the different times of technological innovation and care practice. *Marie Ertner (University of Copenhagen); Signe Louise Yndigegn (IT University of Copenhagen).*

'Infomateriality': Whitehead and digital experience amongst the over 65s. *David Kreps (University of Salford); Jessica Muirhead (University of Salford).*

E09 Experiments in democracy

Convenors: Jason Chilvers (University of East Anglia); Helen Pallett (University of East Anglia)
Elizabeth Livingston Lecture Theatre (Bowland North): **second of three sessions**

Cities as test fields. Urban innovation projects as democratic experiments. *Roman Solé-Pomies (MINES ParisTech); Brice Laurent (MINES ParisTech).*

Experimenting the parliament as a platform. Design cultures at the french National Assembly. *Loup Cellard (University of Warwick).*

An "open" and/or "centralized" public service? Digital-common "Openfisca" case study. *Sebastien Shulz (IFRIS, Université Paris-Est).*

Threats to democracy: balancing democratic ideals and security concerns. *Sam Weiss Evans (Tufts University).*

F02 Health professionals' adaptation to societal and economic uncertainties, intensifying demands and growing challenges to healthcare provision

Convenors: Assaf Givati (University of Portsmouth); Mick Harper (University of Portsmouth)
Bowland North Seminar Room 7: **second of three sessions**

Negotiating medicalisation: the clinical practice of ADHD in paediatric psychiatry. *Fan-Tzu Tseng (Academia Sinica).*

Efficiency, standardization and the complexity of integrating care for old people in a primary care setting in Northen Italy. *Francesco Diodati (University of Bologna).*

How to be nudged, and be just at the same time? Exploring an innovation in the organisation of health care as a practice of justification and critique. *Willemine Willems (Maastricht University).*

Health professionals responses to demands for medical solutions to emotional distress in Uruguay. *Gabriela Bruno (Universidad de la República, Uruguay); Andrea Bielli (Universidad de la República, Uruguay); María Pilar Bacci Mañaricua (Universidad de la República, Uruguay); Santiago Navarro (Universidad de la República, Uruguay).*

F04 STS and normativity-in-the-making: good science and caring practices

Convenors: Jonna Brenninkmeijer (Academic Medical Centre, University of Amsterdam); Annemarie van Hout (Windesheim University of Applied Sciences); Jeannette Pols (Academic Medical Centre, University of Amsterdam); Dick Willems (Academic Medical Centre, University of Amsterdam); Sonja Jerak-Zuiderent (Academic Medical Centre, University of Amsterdam); Vicky Singleton (Lancaster University)
Welcome Centre Lecture Theatre 4: **second of three sessions**

Ontological politics of cure: towards a world without leprosy? *Glaucia Maricato (Federal University of Rio Grande do Sul).*

The dream of precision: normative shifts in recent medicine. *Dick Willems (Academic Medical Centre, University of Amsterdam).*

The good, the bad and the difficult: sharpening STS tools to navigate conflicting normativities in the medical practice of deceased organ donation. *Sara Bea (University of Edinburgh).*

Good diagnostics: productive uncertainty and caring for health in the case of Hepatitis C testing. *Lisa Lehner (Cornell University).*

F07 Methodography of data practices in STS's ethnographic collaboration and participant observation

Convenors: Ingmar Lippert (Museum für Naturkunde Berlin); Julie Sascia Mewes (Humboldt University Berlin)
Bowland North Seminar Room 4: **second of three sessions**

Environmental Impact Assessment through ethnography: disentangling or negotiating slippery subjects? *Sofia Bento (University of Lisbon); Raquel Carvalheira (Universidade NOVA de Lisboa).*

Professional practices and the materiality of knowing and making biodiversity in the Black Forest. *Ronja Mikoleit (University Freiburg).*

Challenges of participant observation and collaborative ethnography in context with infrastructures. *Catharina Lüder (Universität Kassel); Jonas Müller (Kassel University).*

Composite method: experimenting with the absent presence of race in film and facial composite drawing. *Ryanne Bleumink (University of Amsterdam); Lisette Jong (University of Amsterdam); Ildikó Plájás (University of Amsterdam).*

F11 Technopolitics of integration. Charting imaginaries of innovation in the European Union

Convenors: Ine Van Hoyweghen (KU Leuven); Jim Dratwa (European Commission and Woodrow Wilson Center); Luca Marelli (Katholieke Universiteit Leuven)
Faraday Complex Seminar Room 1: **second of three sessions**

Innovate to adapt European agricultures to climate change ? The "Climate Smart Agriculture Booster", a regulatory policy aiming at incentivizing technological innovation. *Jeanne Oui (Centre Alexandre Koyré - EHESS).*

Relative gains or human security? A closer look at the EU's Ethics Issues Checklist for upstream control of dual-use research in Europe. *Saheli Datta (King's College London); Christine Aicardi (King's College London); Tara Mahfoud (King's College London).*

Make way for the robots! Roles for autonomy in building a European public-private partnership. *Kjetil Rommetveit (University of Bergen); Niels van Dijk (Vrije Universiteit Brussel); Kristrún Gunnarsdóttir (University of Surrey).*

G03 Technologies that count: big data and social order

Convenors: Anne K. Krueger (Humboldt University Berlin); Norma Möllers (Queen's University)
Bowland North Seminar Room 10: **second of three sessions**

(Big) data brokers, identity graphs and social sorting. *Stefan Strauß (Austrian Academy of Sciences).*

Postulated consumers - big data in a marketable world. *Roger von Laufenberg (University of St Andrews).*

Commensurating financial intelligence: a qualitative study of European Financial Intelligence Units (fius). *Pieter Lagerwaard (University of Amsterdam).*

Higher education and the labour market infrastructure in the digital economy. *Janja Komljenovic (Lancaster University); Adrian Mackenzie (Lancaster University); Eva Hartmann (University of Cambridge).*

Thursday 26th July, 12:30-14:00

AW01 Encounter, create and eat the world: a meal (Workshop)

Convenors: Michael Guggenheim (Goldsmiths, University of London); Laura Cuch (University College London)
LICA C01 Design Studio: **single session**

Thursday 26th July, 14:00-15:30

A04 Involving compounds

Convenors: Dimitris Papadopoulos (University of Leicester); Manuel Tironi (Pontificia Universidad Católica de Chile); Maria Puig de la Bellacasa (University of Leicester)
Bowland North Seminar Room 6: **third of three sessions**

An appreciation for the extraneous in medical eradication of Ebola. *Marsha Rosengarten (Goldsmiths University of London).*

Toxic capacities: chemopolitics and the horror of late industrialism. *Nicholas Beuret (University of Essex).*

Caring for cortisol: stress, violence and endogenous compounds. *Celia Roberts (Lancaster University).*

Self-disclosure and community-building in open source medicinal chemistry. *Javier Lezaun (Oxford University).*

A08 What do we still not know about the IPCC?

Convenors: Jasmine Livingston (Lund University); Tommaso Venturini (École Normale Supérieure Lyon); Kari De Pryck (University of Geneva)
Cavendish Lecture Theatre (Faraday Complex): **second of two sessions**

The experts network. *Tommaso Venturini (École Normale Supérieure Lyon).*

The IPCC as an organizer of scientific research: the case of the 1.5 Special Report. *Jasmine Livingston (Lund University).*

Balancing formalisation of procedures against professional judgement in synthesising science for policy purposes: the case of the IPCC. *Göran Sundqvist (University of Gothenburg).*

Organising policy-relevant knowledge for climate action: Integrated Assessment Modelling, the IPCC, and the emergence of a collective expertise on socioeconomic emission scenarios. *Christophe Cassen (Centre International de Recherche sur l'Environnement et le Développement); Alain Nadai (Centre National de la Recherche Scientifique); Béatrice Cointe (University of Oslo).*

A11 Encountering energy in systems and everyday spaces

Convenors: Eefje Cuppen (Delft University of Technology); Karen Henwood (Cardiff University); Nick Pidgeon (Cardiff University)
Faraday Lecture Theatre (Faraday Complex): **third of three sessions**

Using boundary object-theory as a framework for understanding adoption of renewable energy innovations in housing: building and HPAC-plan. *Mika Nieminen (VTT Technical Research Centre of Finland); Maria Akerman (VTT Technical Research Centre of Finland).*

A19 Sensing security. Sensors and the making of transnational security infrastructures

Convenors: Nikolaus Pöchhacker (Technical University of Munich); Nina Witjes (Technical University of Munich)
Discussant: Jan-Hendrik Passoth (Technical University of Munich)
Bowland Lecture Theatre (Bowland Main): **single session**

De-scription of security technologies: countering terrorist financing in financial institutions. *Esmé Bosma (University of Amsterdam).*

The making of (digital) space for European border security. *Paul Trauttmansdorff (University of Vienna).*

Right engineering for smart infrastructures? Tracing the techno-epistemic network of privacy by design. *Niels van Dijk (Vrije Universiteit Brussel); Kjetil Rommetveit (University of Bergen).*

AW02 Infrastructuring in STS: what does infrastructuring look like? When does it look like that? (Workshop)

Convenors: Hanne Cecilie Geirbo (University of Oslo); Helena Karasti (University of Oulu); Andrea Botero (University of Oulu); Joanna Saad-Sulonen (IT University of Copenhagen); Sanna Marttila (IT University of Copenhagen)
Chair: Karen Baker (University of Oulu; UIUC)
Discussant: Elena Parmiggiani (Norwegian University of Science and Technology)
Welcome Centre Lecture Theatre 2: **second of two sessions**

B01 Joining together cells and tissues: novel in vitro technologies in context

Convenors: Neil Stephens (Brunel University London); Niki Vermeulen (University of Edinburgh)
Welcome Centre Lecture Theatre 3 **second of two sessions**

Scaffolding expertise: from expectations to interventions in the development of biofabrication. *Carlos Cuevas Garcia (Technical University of Munich).*

3D bioprinting for medical and enhancement purposes: scenarios and options for European policy. *Philip Boucher (European Parliament).*

B07 Situating designs

Convenors: Yana Boeva (York University); Peter Fuzesi (Lancaster University)
Discussants: Alex Wilkie (Goldsmiths, University of London), Daniela Rosner (University of Washington)
Cavendish Colloquim (Faraday Complex): **second of two sessions**

Situating design in a mobile phone research intervention to train Kenyan health workers: the design-reality gap as a lateral concept. *Jade Vu Henry (UCL Institute of Education); Niall Winters (University of Oxford); Martin Oliver (UCL Institute of Education).*

Meeting users and meeting needs - negotiating use in assistive technologies. *Peter Fuzesi (Lancaster University).*

Makeshift Engineering: practicing the craft of locally manufactured small wind turbines. *Kostas Latoufis (National Technical University of Athens); Aristotle Tympas (National and Kapodistrian University of Athens).*

Radical engineering: an ethnography of promise. *Goetz Bachmann (Leuphana University of Lüneburg).*

BW01 A pop-up inventory of STS researchers' roles and interventions (Workshop)

Convenors: Judith Igelsböck (Technical University of Munich); Hannah Varga (Technical University of Munich); Yutaka Yoshinaka (Technical University of Denmark); Denisa Kera
Discussant: Jane Calvert (University of Edinburgh)
Bowland North Seminar Room 23: **single session**

C02 A panel on panels: studying academic conference practice

Convenors: Geert Somsen (Maastricht University); Alexandra Supper (Maastricht University)
Frankland Lecture Theatre (Faraday Complex): **single session**

Conferences: tracking shifts in disciplinary boundaries and professional hierarchies. *Sandra P. González-Santos (Universidad Anahuac).*

Women's conferences in computer science: separating the advocates from the advocated for. *Elizabeth Patitsas (McGill University).*

Big pharma in public behind closed doors. *Sergio Sismondo (Queen's University).*

"We must communicate the value of chemistry". Producing order through publishing infrastructures in chemistry professional conferences. *Marianne Noel (Université Paris-Est).*

C12 Colliding theories, cultures, and futures. STS view(s) beyond the horizon. Or: STS diaspora

Convenors: Melike Sahinol (Orient-Institute Istanbul); Harun Kaygan (Middle East Technical University); Cansu Guner-Birdal (Technical University of Munich); Arsev Aydinoglu (Middle East Technical University)
Bowland North Seminar Room 20: **third of three sessions**

When engineering practices encountered the unacceptable, unpredictable, unthinkable: how STS can shed light on engineering education reform in Taiwan. *Wen-Ling Hong (National Kaohsiung University of Science and Technology); Jr-Ping Wang (National Kaohsiung University of Science and Technology).*

C14 Smugglers, idiots and loyal cheats: situated intervention as method out of control

Convenors: Martina Klausner (Humboldt University); Teun Zuiderent-Jerak (Linköping University)
Chair: Judith Igelsböck (Technical University of Munich)
FASS Building Meeting Room 2/3: **third of three sessions**

Smuggling everyday Quality of Life into conventional oncological treatment. *Denny Chakkalakal (Humboldt Universität zu Berlin); Sabine Biedermann (Technical University Berlin).*

From idiotic questions to the co-production of knowledge - reflections on in-tervention as method in research with/on a highly specialized field. *Anja Klein (Humboldt-Universität Berlin).*

Integrating different knowledges in clinical practice guidelines: exploring the third space between epidemiology and science and technology studies. *Teun Zuiderent-Jerak (Linköping University).*

C20 Software & organisation

Convenors: Armin Beverungen (University of Siegen); Lisa Conrad (Leuphana University Lüneburg); Paula Bialski (Leuphana University Lüneburg)
Bowland Hall Main Room: **third of three sessions**

How the 'material agency' of computer programs manifests itself in project meetings. *Ole Pütz (Bielefeld University).*

Organising control: a study of the collaborative production of free software. *Reinhard Anton Handler (Karlstad University).*

"Don't let them feed you with organic sorts": demystifying 'organic' ordering on social media with rhythmedia. *Elinor Carmi (Royal Holloway, University of London.).*

C28 Meetings over and around food

Convenors: Allison Loconto (Institut National de la Recherche Agronomique); Isabel Fletcher (University of Edinburgh); Katerina Psarikidou (Lancaster University); Kathryn Packer (City, University of London); Claire Marris (Centre for Food Policy)
Frankland Colloquium (Faraday Complex): **second of four sessions**

Three kinds of milk. Interferences in food quality assurance regimes. *Gisela Welz (Goethe University Frankfurt).*

Bringing social science into food safety agencies: the European Food Safety Authority perspective. *Giulia Nicolini (European Food Safety Authority).*

T-labs as transformative spaces: the case of alternative food networks in the Western Cape, South Africa. *Laura Pereira (City University of London); Olive Zgambo (Food and Agriculture Organization of the United Nations); Scott Drimie (University of Stellenbosch).*

'Exchanging knowledge' around food: moving towards more inclusive research and policy agendas? *Katerina Psarikidou (Lancaster University).*

CW01 Recommended reading: opening up STS syllabi (Workshop)

Convenors: Michaela Spencer (Charles Darwin University); Julien Mchardy (Martin Luther University)
FASS Building Meeting Room 1: **single session**

E05 Assembly, silence and dissent in the design and use of gerontechnologies

Convenors: Daniel Lopez Gomez (Universitat Oberta de Catalunya); Alexander Peine (Utrecht University); Louis Neven (Avans University of Applied Sciences)
Marcus Merriman Lecture Theatre (Bowland North): **second of two sessions**

Designing persistent maladjustments: age simulation suits and the problematization of elder's agency. *Lluvi Farré (Fundacio per a la Universitat Oberta de Catalunya); Daniel Lopez Gomez (Universitat Oberta de Catalunya).*

Translating cell biology of ageing? On the importance of choreographing knowledge. *Tiago Moreira (Durham University).*

Resourceful ageing: creative assemblages as quiet dissent against the paternalistic stance. *Louis Neven (Avans University of Applied Sciences); Ivo Maathuis (Tilburg University).*

Dying in place: almost at home. *Bernike Pasveer (Maastricht University).*

E09 Experiments in democracy

Convenors: Jason Chilvers (University of East Anglia); Helen Pallett (University of East Anglia)
Elizabeth Livingston Lecture Theatre (Bowland North): **third of three sessions**

Why practices and atmospheres of participation matter: insights from a democratic experiment in distributed deliberative mapping. *Jason Chilvers (University of East Anglia); Helen Pallett (University of East Anglia); Rob Bellamy (University of Oxford); Tom Hargreaves.*

'Re-wilding' participatory modelling for democratic environmental management. *Catharina Landstrom (University of Oxford).*

Climate strategies as experiments in democracy: evidence from a mixed-method study of national politicians. *Rebecca Willis (Lancaster University).*

Evaluating the participation in epistemo-political practices. *Josefine Raasch (Ruhr University Bochum).*

F02 Health professionals' adaptation to societal and economic uncertainties, intensifying demands and growing challenges to healthcare provision

Convenors: Assaf Givati (University of Portsmouth); Mick Harper (University of Portsmouth)
Bowland North Seminar Room 7: **third of three sessions**

Meeting uncertainty in next generation clinical genetics. *Kathleen Job (Cardiff University).*

F04 STS and normativity-in-the-making: good science and caring practices

Convenors: Jonna Brenninkmeijer (Academic Medical Centre, University of Amsterdam); Annemarie van Hout (Windesheim University of Applied Sciences); Jeannette Pols (Academic Medical Centre, University of Amsterdam); Dick Willems (Academic Medical Centre, University of Amsterdam); Sonja Jerak-Zuiderent (Academic Medical Centre, University of Amsterdam); Vicky Singleton (Lancaster University)
Welcome Centre Lecture Theatre 4: **third of three sessions**

Achieving good interdisciplinary research. *Jonna Brenninkmeijer (Academic Medical Centre, University of Amsterdam).*

Normativities of integrity - a matter of care. *Peter Lutz (Maastricht University); Bart Penders (Maastricht University).*

"Conscience implies a sense of duty". Good science and caring for wild animals in applied ecology. *Angela Cassidy (University of Exeter).*

Evaluating care work and searching for scientific grounding in the disaster zone: disaster mental health activities in northern Japan. *Ben Epstein (University College London).*

F07 Methodography of data practices in STS's ethnographic collaboration and participant observation

Convenors: Ingmar Lippert (Museum für Naturkunde Berlin); Julie Sascia Mewes (Humboldt University Berlin)
Bowland North Seminar Room 4: **third of three sessions**

Collaboration in and beyond the ethnographic field: overcoming epistemic asymmetries through collaborative practices in and beyond residential care settings. *Leyla Safta-Zecheria (Central European University); Julie Sascia Mewes (Humboldt University Berlin).*

Material practices of establishing ethnographic presence. *Stefan Laube (Technische Universität Dresden).*

Being reflexively ethnographic in the face of an opaque Internet of Things. *Christine Hine (University of Surrey).*

F11 Technopolitics of integration. Charting imaginaries of innovation in the European Union

Convenors: Ine Van Hoyweghen (KU Leuven); Jim Dratwa (European Commission and Woodrow Wilson Center); Luca Marelli (Katholieke Universiteit Leuven)
Faraday Complex Seminar Room 1: **third of three sessions**

The diversity of regional innovation cultures in the European Union: "conservative innovation" in Bavaria. *Alexander Wentland (Technical University of Munich); Sebastian Pfotenhauer (Technical University of Munich); Luise Ruge (Technical University of Munich).*

Contribution Systems: how to re-think the politics of innovation as agencies without actors? *Anton Schröpfer (Technical University of Munich).*

Innovation and neocolonialism in the European Space Agency's Moon Village concept (or how Europe will guide humanity into deep space). *Tamara Alvarez (The New School).*

A solution looking for a problem? Interrogating the 'innovation imperative' and the 'deficit model' of innovation. *Sebastian Pfotenhauer (Technical University of Munich); Erik Aarden (University of Vienna); Joakim Juhl (Harvard STS/Aalborg University).*

G03 Technologies that count: big data and social order

Convenors: Anne K. Krueger (Humboldt University Berlin); Norma Möllers (Queen's University)
Bowland North Seminar Room 10: **third of three sessions**

Situated valorizations: accounting for domain-industry collaborations on the cloud. *Andrew Hoffman (University of Washington).*

Recognition by numbers: who shapes algorithmic science evaluation? *J. Hartstein (German Centre for Higher Education Research and Science Studies).*

Large scale data assessments through digital platforms in science- the coproduction of significance. *Clemens Bluemel; Stephan Gauch (DZHW/Humboldt University Berlin).*

Tracing data transformations. *Judit Varga (University of Nottingham).*

Friday 27th July, 09:00-10:30

A01 Biosocial forms of living: imbricating technologies, social and medical knowledge

Convenors: Yannis Papadaniel (University of Lausanne); Luca Chiapperino (University of Lausanne); Giada Danesi (University of Lausanne)
Cavendish Lecture Theatre (Faraday Complex): **first of three sessions**

Plasticity before plasticity: an archaeology and biopolitics of biosocial entanglements. *Maurizio Meloni (Deakin University).*

Environmental epigenetics and mental health research: enacting trauma in the lab. *Georgia Samaras (Technical University of Munich).*

The biosocial imaginaries of epigenetics: performance, visibility, ethopolitics. *Luca Chiapperino (University of Lausanne); Francesco Panese (University of Lausanne).*

Vaccines' intricacies and elusive biological processes. *Roberta Pala (University of New South Wales).*

A05 Meetings of local knowledges: conflicts, complements, and reconfigurations

Convenors: Linda Russell (Universidad Autónoma de Campeche); Nicole Klenk (University of Toronto); Andy Yuille (Lancaster University)
Bowland Lecture Theatre (Bowland Main): **first of three sessions**

Who decides what is fair and natural? Mayan beekeeper encounters with global fair trade cooperatives and organic product scientific standardisation and control. *Linda Russell (Universidad Autónoma de Campeche); Said Jose Abud (CEPHCIS, Universidad Nacional Autónoma de México); Wendy Bazan (Muuch Kambal A.C.).*

Beekeepers, scientists, and disparate voices: understanding, and addressing pollinator decline through reconfigured environmental knowledge. *Siobhan Maderson (Aberystwyth University).*

The 360°approach as a case of undone science: knowledges about a plant phatology in Apulia. *Christian Colella (University of Milano-Bicocca); Roberto Carradore (University of Milan-Bicocca).*

"Permaculture ky ki?"- The transformation of knowledge and meaning in development aid. *Astrid Wiedmann (University of Siegen).*

A09 Encounters with and for circular economy initiatives

Convenors: Helena Valve (Finnish Environment Institute); Maria Akerman (VTT Technical Research Centre of Finland)
Chair: David Lazarevic (Finnish Enviornment Institute)
Bowland North Seminar Room 2: **first of three sessions**

Circularity by the numbers. Enacting and imagining the circular economy through indicators. *Thomas Völker (Joint Research Centre of the European Commission); Zora Kovacic (Universitat Autònoma de Barcelona); Roger Strand (Universitetet i Bergen).*

Understanding the sustainable innovation journey of the Dutch Energy & Resource Factory. *Kasper Ampe (Ghent University).*

Modular smartphones. Assessing a recent hype. *Stefan Laser (University of Kassel).*

A12 Meet our chemicals: ubiquitous presence, selective views

Convenors: Stefan Böschen (RWTH Aachen University); Nona Schulte-Römer (Helmholtz-Centre for Environmental Research GmbH UFZ)
Faraday Lecture Theatre (Faraday Complex): **first of two sessions**

Sustainable chemistry: concept, actors and activities. *Nona Schulte-Römer (Helmholtz-Centre for Environmental Research GmbH UFZ); Max Söding (Helmholtz-Centre for Environmental Research GmbH UFZ); Vera Hickethier (Helmholtz-Centre for Environmental Research GmbH – UFZ).*

Use and representation of substances. Experimentation in natural science lessons. *Anna Dorn (University of Mainz).*

Chemicals in daily life - an emerging concern ignored in Portugal? *Susana Fonseca (University of Lisbon).*

Making chemical infrastructures (in)visible: environmental imaginaries and the environmental sciences of antimicrobial resistance. *Richard Helliwell (University of Nottingham); Sujatha Raman (University of Nottingham); Carol Morris (University of Nottingham).*

A15 Intimate entanglements in science and technology

Convenors: Daniel Lopez Gomez (Universitat Oberta de Catalunya); Joanna Latimer (University of York)
Bowland North Seminar Room 6: **first of three sessions**

"My genes are in mice": intimate encounters in co-clinical trials. *Gail Davies (University of Exeter); Rich Gorman (University of Exeter).*

Embodiment, affect and the transformation of HIV: intimate knowledge and biomedical consensus. *Peter Keogh (Open University); Catherine Dodds (University of Glasgow).*

Transgenerational epigenetics: intimate entanglements between being and knowing in a contested field. *Michael Penkler (Technical University of Munich); Ruth Müller (Technical University of Munich).*

Accomplishing complex genomic based multi-arm trials: working with tissue, time and value. *Julia Swallow (University of Leeds); Anne Kerr (University of Leeds); Choon Key Chekar (University of Leeds); Sarah Cunningham-Burley (University of Edinburgh).*

The intimacy of collaboration and resistance: patient organizations, gynecological cancer and changing lives. *Lisa Lindén (University of Gothenburg).*

A27 The power of correlation and the promises of auto-management. On the epistemological and societal dimension of data-based algorithms

Convenors: Jutta Weber (University Paderborn); Gabriele Gramelsberger (RWTH Aachen University)
Welcome Centre Lecture Theatre 2: **first of three sessions**

The rise of big data (technologies) as Eurocentric and androcentric endeavor. *Bianca Prietl (Technical University Darmstadt).*

Learning in the wild: on the problem of adaptivity in machine learning. *Nikolaus Pöchhacker (Technical University of Munich); Marcus Burkhardt (University of Siegen).*

Exploring the bias in de-biasing. *Doris Allhutter (Austrian Academy of Sciences).*

Auto-management as governance? Predictive analytics in counter-insurgency and marketing. *Jutta Weber (University Paderborn).*

B06 Collaboration in/with "open labs": studying the objects of boundary-making and crossing

Convenors: Morgan Meyer (MINES ParisTech); Evelyne Lhoste (Laboratoire Interdisciplinaire Sciences Innovations Sociétés); Luis Felipe Rosado Murillo (CNAM/IFRIS)
Bowland North Seminar Room 23: **first of three sessions**

The boundaries of open data: digitally mapping displacement as an anti-capitalist collective. *Erin McElroy (University of California, Santa Cruz).*

The co-laborator: place-making through laboratization practices in a living lab construction. *Dara Ivanova (Erasmus University Rotterdam); Iris Wallenburg (Erasmus University Rotterdam); Roland Bal (Erasmus University Rotterdam).*

Turning utopias into material: spaces of cultural and technical experimentation in Helsinki. *Philip Hector (Aalto University); Mikko Jalas (Aalto University).*

Stabilized instability. Hacking tournament as a laboratory. *Marcin Zaród (Kozminski University).*

B11 Descriptive meetings: description as site, ground and point of politics

Convenors: Ciara Kierans (University of Liverpool); Nicole Vitellone (University of Liverpool); Michael Mair (University of Liverpool)
Welcome Centre Lecture Theatre 3: **first of two sessions**

Describing the unexplained: rethinking the 'thin' and the 'thick' as practical problems for anthropology. *Ciara Kierans (University of Liverpool).*

Taking sides: the syringe and the problem of description. *Nicole Vitellone (University of Liverpool).*

Just what are we doing when we're describing AI? Harvey Sacks, the commentator machine and the descriptive turn in artificial intelligence. *Philippe Sormani (Swiss Institute in Rome); Phillip Brooker (University of Liverpool); Michael Mair (University of Liverpool).*

The art of description in establishing failures in healthcare. *Dawn Goodwin (Lancaster University).*

C16 Data worlds? Public imagination and public experimentation with data infrastructures

Convenors: Tommaso Venturini (École Normale Supérieure Lyon); Carolin Gerlitz (University of Amsterdam); Jonathan Gray (King's College London); Noortje Marres (University of Warwick)
Frankland Lecture Theatre (Faraday Complex): **first of four sessions**

Research portfolios as tools for opening up deliberations on priority setting. *Ismael Rafols (Universitat Politècnica de València).*

Where's the database in digital ethnography? Exploring database ethnography for open data and smart cities research. *Ryan Burns (University of Calgary); Grace Wark (University of Calgary).*

Agencies in the database: the role of flagging. *Sarah Inman (University of Washington).*

Fintech apps and data-driven irrationalities: speculation in the face of precarity. *Rolien Hoyng (Chinese University of Hong Kong).*

C22 Citizen science: active citizenship vs. data commodification

Convenors: Alexandra Albert (University of Manchester); Katja Mayer (Technical University of Munich); Josep Perelló (Universitat de Barcelona); Martina Franzen (WZB Berlin Social Science Center)
FASS Building Meeting Room 2/3: **first of two sessions**

Radiation monitoring after Fukushima: rearticulating "citizen science" as active citizenship. *Michiel Van Oudheusden (KU Leuven); Go Yoshizawa (Osaka University).*

A history and vision of participatory scientific activities in South Korea. *Yunjae Kang (Dongguk University); Ji Yeon Kim (Korea University).*

Epistemic cultures in citizen science and humanities: distribution, epistemic subjects, programs and anti-programs. *Dick Kasperowski (University of Gothenburg); Christopher Kullenberg; Frauke Rohden (University of Gothenburg).*

When co-creation of citizen science drives empowerment: an example from the mental health community. *Anna Cigarini (Universitat de Barcelona); Josep Perelló (Universitat de Barcelona).*

C26 Precision medicine at the crossroads: meeting the micro and macro, the molecular and social in new medical strategies

Convenors: Nadav Even Chorev (European Institute of Oncology); Ilaria Galasso (European Institute of Oncology)
Bowland North Seminar Room 20: **first of three sessions**

Meeting the genome half way: entangled agency where the genome meets the clinic. *Chris Goldsworthy (University of Oxford).*

Nordic strategies to harness the "goldmine" of population data. *Heta Tarkkala (University of Eastern Finland/University of Helsinki); Karoliina Snell (University of Helsinki).*

Actionable data for precision oncology: developing a trustworthy data source. *Niccolo Tempini (University of Exeter); Sabina Leonelli (University of Exeter).*

Precision asthma medicine in primary care: a controversy study. *Alex Rushforth (University of Oxford); Trisha Greenhalgh (University of Oxford).*

C27 Recombining life: sociotechnical intersections in the making of genome editing

Convenors: Michael Morrison (University of Oxford); Paul Martin (University of Sheffield)
Discussant: Ilke Turkmendag (Newcastle University)
Cavendish Colloquim (Faraday Complex): **first of two sessions**

Something old, something new, something borrowed: genome editing as a disruptive technology. *Ilke Turkmendag (Newcastle University); Paul Martin (University of Sheffield); Michael Morrison (University of Oxford).*

The social construction of genome-editing technologies in the conference agora. *Fiona Coyle (University of Edinburgh).*

Patient power? The influence of Rare Disease Patient Organisation on the development of gene therapy and genome editing. *Paul Martin (University of Sheffield); Ilke Turkmendag (Newcastle University).*

Social responsibility and gene-editing in wheat research. *Michael Reinsborough (University of West of England).*

C28 Meetings over and around food

Convenors: Allison Loconto (Institut National de la Recherche Agronomique); Isabel Fletcher (University of Edinburgh); Katerina Psarikidou (Lancaster University); Kathryn Packer (City, University of London); Claire Marris (Centre for Food Policy)
Frankland Colloquium (Faraday Complex): **third of four sessions**

Waste becoming food: value questions, uneasy solutions, and policy possibilities in the surplus food system. *Megan Blake (Univeristy of Sheffield).*

Antimicrobial resistance and food policy: beating, meeting or greeting microbial life? *Suzanne Hocknell (Newcastle University).*

Understanding processing: Mega Food Parks and technological interactions in the Indian food system. *Barkha Kagliwal (Cornell University).*

CW02 The Museum of Random Memory: a meeting of research, activism, and critical pedagogy (Workshop)

Convenors: Justin Lacko (Futuremaking Group); Ramona Dremljuga; Gabriel Pereira (Aarhus University); Annette Markham (Aarhus University); Christopher Bratton (Center for Arts, Design, and Social Research)
Chair: Deborah Lanzeni (RMIT)
Discussant: Dalida Maria Benfield (Centre for Arts, Design, & Social Research)
FASS Building Meeting Room 1: **first of two sessions**

D01 Politicizing futures. When conflicting visions meet

Convenors: Andreas Lösch (Karlsruhe Institute of Technology); Alexandra Hausstein (Karlsruhe Institute of Technology); Christoph Schneider (Technical University of Munich); Ulrich Ufer (Karlsruhe Institute of Technology)
Elizabeth Livingston Lecture Theatre (Bowland North): **first of four sessions**

Clashing futures as drivers of socio-technological change. *Andreas Lösch (Karlsruhe Institute of Technology); Alexandra Hausstein (Karlsruhe Institute of Technology).*

Disruptive innovation & the idea of technology. *Darryl Cressman (Maastricht University).*

Responsibility to drill or not to drill for oil in the Arctic Ocean? The translation of techno-scientific uncertainty into political power, then and now. *Justiina Dahl (KTH Royal institute of Technology).*

Meeting to plan the future of cycling: from technical to epistemic and recurrent objects. *Pim Peters (Technische Universität München).*

D02 Challenging formal arrangements and decision-making in the energy sector

Convenors: Olivier Ejderyan (ETH Zurich); Shannon Spruit (Delft University of Technology)
Bowland Hall Main Room: **first of three sessions**

Energy regulators as mediators or managers? A case study in South Africa. *David Walwyn (University of Pretoria).*

Impacts of the fossil fuel divestment movement. *Noam Bergman (University of Sussex); Tim Foxon (University of Sussex).*

How to organize stakeholders involvement in regulating technological issues? An argument for controversies-thinking. *Lonneke Poort (Eramus School of Law).*

On site public participation in the development of renewable energy installations. *Gerhard Fuchs (University of Stuttgart).*

E04 Meeting the visual

Convenors: Dorothea Born (University of Vienna); Regula Valérie Burri (HafenCity University Hamburg)
Bowland North Seminar Room 7: **first of two sessions**

Resisting visualizations. A cross-species and cross-field comparative exploration - part 1. *Ann Rudinow Saetnan (Norwegian Institute for Science & Technology); Rocco Bellanova (University of Amsterdam).*

Normal x-ray images and entrenchment: visualising problematic anatomy. *Peter Winter (University of Sheffield).*

A real world laboratory and the vital role of visuals in tracing the trail of a lethal virus. *Linda Madsen (University of Freiburg).*

Meeting gender in space: visual imagery in children's science books. *Elizabeth Caldwell (University of Huddersfield); Susan Wilbraham (University of Cumbria).*

E06 The room where it happens: inclusion, exclusion and power in STS research and practice

Convenors: Katharine Howell (Lancaster University); Craig Jones (Lancaster University)
Marcus Merriman Lecture Theatre (Bowland North): **first of three sessions**

Fossil networks and dirty power in the land of Oz. *Adam Lucas (University of Wollongong).*

How do environmental planning knowledge and environmental policies travel in Chinese metropolis? An urban assemblage study of 'Sponge Cities' in Shanghai. *Chao Wang (University of Sheffield).*

The enactment of legitimate stakeholders and issues at the Green Climate Fund board meetings. *Jonas Bertilsson (University of Gothenburg).*

Intersectionality, power dynamics and visibility of women in science. *Chandni Vadhavana (Central University of Gujarat).*

F03 Scientists - agents under construction

Convenors: Sarah Schönbauer (Technical University of Munich); Rosalind Attenborough (University of Edinburgh)
Welcome Centre Lecture Theatre 4: **first of four sessions**

Being lucky and making choices: making sense of mobility. *Sarah Davies (University of Copenhagen).*

Finding a place in science: the role of institutional configurations in the formation of scientific identity. *Niki Vermeulen (University of Edinburgh); Andrea Nunez Casal (Goldsmiths, University of London).*

At least a little bit of stability. How life scientists do identity work in today´s academia. *Sarah Schönbauer (Technical University of Munich).*

F09 Democracies of controlled experimentation? The emerging landscape of social laboratories

Convenors: Franziska Engels (WZB Berlin Social Science Center); Kyriaki Papageorgiou (ESADE/Harvard Kennedy School); Sebastian Pfotenhauer (Technical University of Munich); Verena Kontschieder (Technical University of Munich)
Faraday Complex Seminar Room 1: **first of three sessions**

Mapping design methods for public policy innovation in European Policy Labs. *Federico Vaz (Loughborough University London).*

Encounters and disencounters: design, innovation and the 'public' in public sector innovation labs in Ibero-America. *Maria Ferreira (Aalto University); Andrea Botero (University of Oulu).*

"A safe place to do dangerous things": Policy Labs as the future of policymaking in Europe. *Verena Kontschieder (Technical University of Munich); Sebastian Pfotenhauer (Technical University of Munich).*

Design thinking-apparatuses. The quality and scope of lab-solutions. *Tim Seitz (Technische Universität Berlin).*

F10 The public imagination of the future

Convenors: Roy Bendor (Delft University of Technology); Joost Vervoort (Utrecht University); Peter Pelzer (Utrecht University); Jesse Hoffman (Utrecht University)
Bowland North Seminar Room 4: **first of three sessions**

Potential public use of 'Opportunity Radars'. *Nicholas Rowland (Pennsylvania State University); Matthew Spaniol (Roskilde University).*

The designer in the middle: urban futures for public consumption. *Roy Bendor (Delft University of Technology).*

Overshooting futures: investigating digital representations of scenarios with climate change. *Simon David Hirsbrunner (University of Siegen).*

Disconcerting (big) data futures through data sprints. *Michael Hockenhull (IT University of Copenhagen).*

G05 Seeing with data and devices

Convenors: Dorthe Kristensen (University of Southern Denmark); Minna Ruckenstein (University of Helsinki)
Chair: Nina Janasik-Honkela (University of Helsinki)
Bowland North Seminar Room 10: **first of two sessions**

Partial vistas: records, self-monitoring and everyday data practices. *Kate Weiner (University of Sheffield); Catherine Will (University of Sussex).*

How to think like an accelerometer. *Steven Richardson (Queen's University).*

Seeing the self through data. *Dorthe Kristensen (University of Southern Denmark).*

Imagining human-centric data futures: an analysis of the visual conventions of personal finance, health and integrated data management tools. *Nina Janasik-Honkela (University of Helsinki); Mika Pantzar (University of Helsinki); Sari Yli-Kauhaluoma (University of Helsinki).*

Friday 27th July, 11:00-12:30

A01 Biosocial forms of living: imbricating technologies, social and medical knowledge

Convenors: Yannis Papadaniel (University of Lausanne); Luca Chiapperino (University of Lausanne); Giada Danesi (University of Lausanne)
Cavendish Lecture Theatre (Faraday Complex): **second of three sessions**

Embodiment and self-care practices: how injured runners negotiate medical expertise online. *Patricia Campbell (Red Deer College).*

Managing sociocultural expectations of women with Turner Syndrome with biomedicine and technology. *Malgorzata Rajtar (Polish Academy of Sciences).*

Living with type 1 diabetes as a biosocial form of living. *Giada Danesi (University of Lausanne).*

Ovulation biosensors: emerging practices of sensing and knowing. *Joann Wilkinson (Lancaster University).*

A05 Meetings of local knowledges: conflicts, complements, and reconfigurations

Convenors: Linda Russell (Universidad Autónoma de Campeche); Nicole Klenk (University of Toronto); Andy Yuille (Lancaster University)
Bowland Lecture Theatre (Bowland Main): **second of three sessions**

Expertise and agency in neighbourhood planning. *Andy Yuille (Lancaster University).*

Neogeography and the insurrection of knowledges. *Doug Specht (University of Westminster).*

Tackling the problem of reach: a neighborhood knowledge collective in-the-making. *Sanne Raap (Maastricht University); Mare Knibbe (Mastricht University); Klasien Horstman (Maastricht University).*

The city between object and subject: on analysing the reconfigurations of planning action. *Julio Paulos (ETH Zurich).*

A09 Encounters with and for circular economy initiatives

Convenors: Helena Valve (Finnish Environment Institute); Maria Akerman (VTT Technical Research Centre of Finland)
Chair: David Lazarevic (Finnish Enviornment Institute)
Bowland North Seminar Room 2: **second of three sessions**

Re-ordering material flows for renewable energy production or manure management: the emergence of biogas production in Finland. *David Lazarevic (Finnish Environment Institute); Helena Valve (Finnish Environment Institute).*

Manure and material politics of resource-making: the case study of Biovakka biogas company. *Maria Akerman (VTT Technical Research Centre of Finland); Niko Humalisto (Finnish Evangelical Lutheral Mission).*

Inclusive biobased innovation for sustainability: a case study in Jamaica. *Zoe Robaey (Delft University of Technology); Lotte Asveld (Delft University of Technology).*

A12 Meet our chemicals: ubiquitous presence, selective views

Convenors: Stefan Böschen (RWTH Aachen University); Nona Schulte-Römer (Helmholtz-Centre for Environmental Research GmbH UFZ)
Faraday Lecture Theatre (Faraday Complex): **second of two sessions**

Interdisciplinary study of the management at the source of pharmaceutical residues in the hospital: a chemical and a sociological analysis. *Geoffrey Carrere (University of Toulouse-Jean Jaurès); Julia Barrault (Université de Bordeaux); Vincent Dufour (University of Bordeaux); Helene Budzinski (Université de Bordeaux); Denis Salles (IRSTEA).*

Plastic matters: the material politics of microplastics at the Environment Agency Austria. *Artemis Papadaki-Anastasopoulou (University of Vienna).*

Epistemic regimes: the case of regulating chemicals in the European Union. *Stefan Böschen (RWTH Aachen University).*

A15 Intimate entanglements in science and technology

Convenors: Daniel Lopez Gomez (Universitat Oberta de Catalunya); Joanna Latimer (University of York)
Bowland North Seminar Room 6: **second of three sessions**

The practiced intimacies of heat: negotiating the energetic imbrications of working and researching bodies. *Elspeth Oppermann (Charles Darwin University).*

Knowledge, intimacy & being alongside the life sciences of ageing. *Joanna Latimer (University of York).*

Abundance in the Anthropocene. *Eva Giraud (Keele University); Eleanor Hadley Kershaw (University of Nottingham); Richard Helliwell (University of Nottingham).*

Objectual companionship? Intimating with objects at the end of their lives. *Blanca Callén (BAU Design College of Barcelona); Daniel Lopez Gomez (Universitat Oberta de Catalunya).*

A27 The power of correlation and the promises of auto-management. On the epistemological and societal dimension of data-based algorithms

Convenors: Jutta Weber (University Paderborn); Gabriele Gramelsberger (RWTH Aachen University)
Welcome Centre Lecture Theatre 2: **second of three sessions**

Whose knowledge, whose power? Investigating principles of machine learning from a feminist epistemological perspective. *Goda Klumbyte (University of Kassel); Claude Draude (University of Kassel).*

New regimes of knowledge production: the case of Wifi-footfall counts. *Daan Kolkman (Jheronimus Academy of Data Science).*

Trust and machine learning. *Andreas Breiter (University of Bremen); Hendrik Heuer (University of Bremen).*

PRECOBS: theory- and correlation-based construction of crime futures. *Simon Egbert (Universität Hamburg).*

B06 Collaboration in/with "open labs": studying the objects of boundary-making and crossing

Convenors: Morgan Meyer (MINES ParisTech); Evelyne Lhoste (Laboratoire Interdisciplinaire Sciences Innovations Sociétés); Luis Felipe Rosado Murillo (CNAM/IFRIS)
Bowland North Seminar Room 23: **second of three sessions**

Structures of emancipation in design-centered makerspaces. *Yana Boeva (York University).*

Promissory equipment: the fabric of participation in DIY practices. *Morgan Meyer (MINES ParisTech).*

Crafting education: professionalization of makers in a collaboration with schools. *Florian Tichy (Technical University of Munich).*

Creating space and means for public participation in S&T - case of Art Science BLR. *Mahendra Shahare (Indian Institute of Technology Delhi).*

B11 Descriptive meetings: description as site, ground and point of politics

Convenors: Ciara Kierans (University of Liverpool); Nicole Vitellone (University of Liverpool); Michael Mair (University of Liverpool)
Welcome Centre Lecture Theatre 3: **second of two sessions**

In between silence and re-describing matters of care: an attempt at ethnography of cognitive dis/ability. *Dana Hradcova (Faculty of Humanities Charles University); Michal Synek (Charles University/ Masaryk University); Radek Carboch (Masaryk University/Charles University); Dita Jahodová (Charles University).*

Never been modern? Hailing autism in evolutionary psychology and science and technology studies. *Gregory Hollin (University of Leeds).*

"All in relationship". Meetings between social sciences and design through description. *Alvise Mattozzi (Free University of Bozen-Bolzano).*

Situating STS within design practices: the concept of "network within". *Laura Lucia Parolin (University of Southern Denmark).*

C16 Data worlds? Public imagination and public experimentation with data infrastructures

Convenors: Tommaso Venturini (École Normale Supérieure Lyon); Carolin Gerlitz (University of Amsterdam); Jonathan Gray (King's College London); Noortje Marres (University of Warwick)
Frankland Lecture Theatre (Faraday Complex): **second of four sessions**

Intervening in data infrastructure using ontological switches. *Christian Nold (University College London).*

A citizen data app as an emergent para-site for official statistics: imagining citizens as more than data collectors and subjects. *Francisca Grommé (Goldsmiths, University of London); Evelyn Ruppert (Goldsmiths, University of London).*

Grounding public engagement in data: some experiments to 'issue-fy' vertical farming. *Laurie Waller (Technical University of Munich).*

Situational analytics. *Noortje Marres (University of Warwick); Brit Winthereik (IT University of Copenhagen).*

C22 Citizen science: active citizenship vs. data commodification

Convenors: Alexandra Albert (University of Manchester); Katja Mayer (Technical University of Munich); Josep Perelló (Universitat de Barcelona); Martina Franzen (WZB Berlin Social Science Center)
FASS Building Meeting Room 2/3: **second of two sessions**

Citizen science from below or from above: a tale of two projects. *Ana Delicado (Lisbon University).*

Citizen science: paving the way for automated knowledge production? *Martina Franzen (WZB Berlin Social Science Center).*

The barriers and opportunities to participation in the Empty Houses Project: crowdsourced citizen social science for more socially robust knowledge. *Alexandra Albert (University of Manchester).*

Re-situating participatory social research in Citizen Social Science. *Barbara Kieslinger (Zentrum für Soziale Innovation GmbH); Katja Mayer (Technical University of Munich); Teresa Schaefer (Zentrum für Soziale Innovation GmbH).*

C26 Precision medicine at the crossroads: meeting the micro and macro, the molecular and social in new medical strategies

Convenors: Nadav Even Chorev (European Institute of Oncology); Ilaria Galasso (European Institute of Oncology)
Bowland North Seminar Room 20: **second of three sessions**

The missing publics: Taiwan Biobank, controversy, and democratic governance. *Yu-Yueh Tsai (Academia Sinica); WanJu Lee (Academia Sinica).*

Precision medicine benefitting populations? Discourse of altruism around precision medicine cohorts. *Ilaria Galasso (European Institute of Oncology); Giuseppe Testa (European Institute of Oncology / University of Milan).*

Destigmatization in/of psychiatry: is biomarker research the 'right tool for the job'? *Laura Schnieder (Goethe-Universität Frankfurt); Jonas Rueppel (Goethe-University Frankfurt).*

Dilemmatic situations between benzodiazepine prescription recommendations and practices in Uruguay. *Nancy Calisto (Universidad de la República, Uruguay); Andrea Bielli (Universidad de la República, Uruguay); Lauren Predebon (Universidad de la República).*

C27 Recombining life: sociotechnical intersections in the making of genome editing

Convenors: Michael Morrison (University of Oxford); Paul Martin (University of Sheffield)
Discussant: Ilke Turkmendag (Newcastle University)
Cavendish Colloquim (Faraday Complex): **second of two sessions**

Decriminalizing human germline modification? *Erika Kleiderman (Centre of Genomics and Policy).*

Beware the intersections: developing a feminist lens for discussions of genome editing. *Stevienna de Saille (University of Sheffield).*

Economies of hope and the commodification of life itself: transgenic mosquitoes as technoscientific matters of care. *Josef Barla (Goethe University Frankfurt).*

C28 Meetings over and around food

Convenors: Allison Loconto (Institut National de la Recherche Agronomique); Isabel Fletcher (University of Edinburgh); Katerina Psarikidou (Lancaster University); Kathryn Packer (City, University of London); Claire Marris (Centre for Food Policy)
Frankland Colloquium (Faraday Complex): **fourth of four sessions**

The introduction of sustainability into Finnish nutrition recommendations: a new dietary ontonorm in the making? *Mikko Jauho (University of Helsinki); Minna Santaoja (University of Tampere).*

Best før, ofte god etter (best before, often good after) - the construction, practice and consequences of the expiration date of food in Norway. *Tanja Plasil (Norwegian University of Science and Technology).*

Digital eating: exploring the contours of platformed food. *Tanja Schneider (University of St. Gallen); Karin Eli (University of Oxford).*

'I can be part of that cool new thing if I eat more soft boiled wholegrains'. Developing new food/nutrition policies (and cultures) in Denmark and Scotland. *Isabel Fletcher (University of Edinburgh).*

CW02 The Museum of Random Memory: a meeting of research, activism, and critical pedagogy (Workshop)

Convenors: Justin Lacko (Futuremaking Group); Ramona Dremljuga; Gabriel Pereira (Aarhus University); Annette Markham (Aarhus University); Christopher Bratton (Center for Arts, Design, and Social Research)
Chair: Deborah Lanzeni (RMIT)
Discussant: Dalida Maria Benfield (Centre for Arts, Design, & Social Research)
FASS Building Meeting Room 2/3: **second of two sessions**

CW03 Assessing the confluence of digital and physical meetings: a toolbox for digital media research (Workshop)

Convenor: Christian Ritter (Norwegian University of Science and Technology)
FASS Building Meeting Room 1: **single session**

D01 Politicizing futures. When conflicting visions meet

Convenors: Andreas Lösch (Karlsruhe Institute of Technology); Alexandra Hausstein (Karlsruhe Institute of Technology); Christoph Schneider (Technical University Munich); Ulrich Ufer (Karlsruhe Institute of Technology)
Elizabeth Livingston Lecture Theatre (Bowland North): **second of four sessions**

Citizen led visions of the future smart city from grassroots urban agriculture. *Adrian Clear (Northumbria University); Sara Heitlinger (Newcastle University); Rachel Clarke (Northumbria University); Simran Chopra (Northumbria University).*

Exploring diverging visions of the future city using the tree as method. *Hanne Cecilie Geirbo (University of Oslo); Hanne Johnsrud (Link Arkitektur); Ida Nilstad Pettersen (Norwegian University of Science and Technology).*

Smart urban risks in decontextualized tech-visions. *Ulrich Ufer (Karlsruhe Institute of Technology); Sadeeb Simon Ottenburger (Karlsruhe Institute of Technology).*

Politicizing energy futures in conflicting visions. *Cordula Kropp (Uniuversität Stuttgart); Ricarda Scheele (University of Stuttgart).*

D02 Challenging formal arrangements and decision-making in the energy sector

Convenors: Olivier Ejderyan (ETH Zurich); Shannon Spruit (Delft University of Technology)
Bowland Hall Main Room: **second of three sessions**

Social conflicts in energy projects: exploring differences in moral appraisals through the lens of epistemic cultures. *Shannon Spruit (Delft University of Technology); Eefje Cuppen (Delft University of Technology); Elisabeth van de Grift (Delft University of Technology).*

Critical challenges to theorising public engagement with the design and deployment of hybrid forums: empirical evidence from Waste-to-Energy contestation in Wales. *Nick Hacking (Cardiff University).*

Co-producing knowledge and publics amidst controversy: analysis of an EU expert network on unconventional hydrocarbons development. *Leonie Reins (Tilburg University); Kärg Kama (University of Birmingham); Aleksandra Lis (Adam Mickiewicz University).*

How procedural fairness influences the formation of willingness to cooperate in Switzerland's energy transition. *Agnes Harms (Swiss Federal Institute for Forest, Snow and Landscape Research); Tobias Schulz (Swiss Federal Institute for Forest, Snow and Landscape Research).*

E04 Meeting the visual

Convenors: Dorothea Born (University of Vienna); Regula Valérie Burri (HafenCity University Hamburg)
Bowland North Seminar Room 7: **second of two sessions**

Threatening, dominated, vulnerable: visualizations of nature in the climate change communication of GEO and National Geographic. *Dorothea Born (University of Vienna).*

The black boxes of visual interfaces - study of the power structures in the field of gameplay. *Paweł Gaska (Nicolaus Copernicus University).*

Premediating a deep future: visualizations of deep geological repositories for radioactive waste. *Simon Zingerle (University of Vienna).*

E06 The room where it happens: inclusion, exclusion and power in STS research and practice

Convenors: Katharine Howell (Lancaster University); Craig Jones (Lancaster University)
Marcus Merriman Lecture Theatre (Bowland North): **second of three sessions**

Peer review and networks in STEM disciplines - a question of gendered inclusion, exclusion and power? *Felizitas Sagebiel (University of Wuppertal).*

Giving voice to unheard older adults. Participation technologies for knowledge-making-practices. *Susan van Hees (Tilburg University); Katrien Luijkx (Tilburg University).*

Isolated yet profoundly networked: a mobile and multi-sited ethnography of control rooms. *Asher Boersma (Siegen University).*

Building interdisciplinary capacity for responsible research and innovation: the Interdisciplinary Translation initiative. *Andi Hess (Arizona State University).*

F03 Scientists - agents under construction

Convenors: Sarah Schönbauer (Technical University of Munich); Rosalind Attenborough (University of Edinburgh)
Welcome Centre Lecture Theatre 4: **second of four sessions**

"Within the frames that were laid out": 'independent' doctoral research in the projectified humanities. *Alexandra Supper (Maastricht University).*

Evidence for excellence? How ERC reviewers attribute (non-)excellence to researchers. *Kay Felder (Technical University of Munich); Ruth Müller (Technical University of Munich).*

Filling in the gaps. The politics of interpreting academic CVs in evaluative situations. *Wolfgang Kaltenbrunner (Leiden University); Sarah de Rijcke (Leiden University); Ruth Müller (Technical University of Munich).*

Impacted or impactful? The research impact agenda as a challenge to academic identities. *Justyna Bandola-Gill (University of Edinburgh).*

F09 Democracies of controlled experimentation? The emerging landscape of social laboratories

Convenors: Franziska Engels (WZB Berlin Social Science Center); Kyriaki Papageorgiou (ESADE/Harvard Kennedy School); Sebastian Pfotenhauer (Technical University of Munich); Verena Kontschieder (Technical University of Munich)
Faraday Complex Seminar Room 1: **second of three sessions**

A Policy Lab approach between critical STS, technology foresight and design fictions. *Susana Nascimento (European Commission, Joint Research Centre); Alexandre Pólvora (European Commission).*

Ethics and politics of service design: reflections on Canada's Innovation Lab. *Helin Burkay (Ludwig Maximilian University of Munich).*

Testing future societies - how test beds re-interpret and co-produce technology and society. *Franziska Engels (WZB Berlin Social Science Center); Sebastian Pfotenhauer (Technical University of Munich); Alexander Wentland (Technical University of Munich).*

Making urban laboratories: living with bioengineered mosquitos in Medellín. *Rosie Sims (Graduate Institute of International and Development Studies).*

F10 The public imagination of the future

Convenors: Roy Bendor (Delft University of Technology); Joost Vervoort (Utrecht University); Peter Pelzer (Utrecht University); Jesse Hoffman (Utrecht University)
Bowland North Seminar Room 4: **second of three sessions**

Techniques of futuring: imagining sustainable cities of tomorrow. *Jesse Hoffman (Utrecht University); Peter Pelzer (Utrecht University); Maarten Hajer (Urban Futures Studio).*

Futures limited: innovations pathways in public foresight. *Petra Schaper-Rinkel (Austrian Institute of Technology).*

Comparing visions via scenario development. *Coyan Tromp (Institute for Interdisciplinary Studies, University of Amsterdam).*

Women's imagination of future, less polluted, urban environments. *Maria Loroño-Leturiondo (Manchester Metropolitan University); Paul O'Hare (Manchester Metropolitan University); Simon Cook (University of Dundee); Sam Illingworth (Manchester Metropolitan University).*

G05 Seeing with data and devices

Convenors: Dorthe Kristensen (University of Southern Denmark); Minna Ruckenstein (University of Helsinki)
Chair: Nina Janasik-Honkela (University of Helsinki)
Bowland North Seminar Room 10: **second of two sessions**

Doing experiments on customer data: customer data as epistemic object. *Markus Unternährer (University of Lucerne).*

The market that fails to see. *Minna Ruckenstein (University of Helsinki).*

New transparency, new opacity. *Lisa Conrad (Leuphana University Lüneburg).*

Have you seen this dog? Rendering more-than-human publics legible in urban settings. *Morgan Mouton (University of Calgary); Melanie Rock (University of Calgary); Olga Solomon (University of Southern California).*

Friday 27th July, 14:00-15:30

A01 Biosocial forms of living: imbricating technologies, social and medical knowledge

Convenors: Yannis Papadaniel (University of Lausanne); Luca Chiapperino (University of Lausanne); Giada Danesi (University of Lausanne)
Cavendish Lecture Theatre (Faraday Complex): **third of three sessions**

Restorative justice and the epigenetics of early life adversity: new approaches to the biosocial effects of trauma. *Martha Kenney (San Francisco State University); Ruth Müller (Technical University of Munich).*

Treating and living endometriosis: a biosocial experience. *Anne-Charlotte Millepied (Ecole des Hautes Etudes en Sciences Sociales).*

Forgetting about the sword of Damocles: how do people live with presymptomatic diagnosis? *Madeleine Akrich (MINES ParisTech); Vololona Rabeharisoa (MINES ParisTech); Florence Paterson (MINES ParisTech, CNRS, PSL).*

Digital biocommunities: community-building and sharing practices on blogs and forums among people diagnosed with bipolar disorder. *Claudia Egher (Maastricht University).*

A05 Meetings of local knowledges: conflicts, complements, and reconfigurations

Convenors: Linda Russell (Universidad Autónoma de Campeche); Nicole Klenk (University of Toronto); Andy Yuille (Lancaster University)
Bowland Lecture Theatre (Bowland Main): **third of three sessions**

Making spaces of participation: an enquiry into researchers' and practice actors' narrations of participatory knowledge production in sustainability research. *Livia Fritz (École Polytechnique Fédérale de Lausanne).*

Revisiting the 'thought styles' of Ludwik Fleck (1935): tracing knowledge transfer across 'thought collectives'. *Maurice Skelton (ETH Zurich); David N Bresch (ETH Zurich/ MeteoSwiss); Suraje Dessai (University of Leeds).*

The meshwork of local knowledge co-production. *Nicole Klenk (University of Toronto).*

When knowledge is not there yet: a semiotic approach to risk. *Davide Orsini (Mississippi State University).*

A09 Encounters with and for circular economy initiatives

Convenors: Helena Valve (Finnish Environment Institute); Maria Akerman (VTT Technical Research Centre of Finland)
Chair: David Lazarevic (Finnish Enviornment Institute)
Bowland North Seminar Room 2: **third of three sessions**

Treating waste for a circular economy? Limits of techno-market fixes. *Les Levidow (Open University).*

Introducing 'care' into circular economies: implications on pro-posal, use and dis-posal. *Tridibesh Dey (University of Exeter).*

Digital platforms in the sharing economy: from matchmaking to boundary making. *Roser Pujadas (London School of Economics and Political Science); Daniel Curto-Millet.*

A14 In other words: caring for water

Convenors: Annemarie Mol (University of Amsterdam); Marianne de Laet (Harvey Mudd College)
Faraday Lecture Theatre (Faraday Complex): **first of two sessions**

Ways of encountering water: ethics of freediving. *Sara Malou Strandvad (University of Groningen); Anne Marie Dahler (University College Lillebælt).*

On Sámi words and lakes: mistranslation as colonisation. *John Law; Liv Østmo (Sámi University of Applied Sciences).*

Caring for the canal: exploring water management and cuidar. *Carolina Domínguez Guzmán (University of Amsterdam); Annemarie Mol (University of Amsterdam).*

Schoon and other goods pertinent to water care in the Netherlands. *Annemarie Mol (University of Amsterdam).*

A15 Intimate entanglements in science and technology

Convenors: Daniel Lopez Gomez (Universitat Oberta de Catalunya); Joanna Latimer (University of York)
Bowland North Seminar Room 6: **third of three sessions**

Affectivity and data-visualisation entanglements in the (re)invention of Magnetic Resonance Imaging technologies. *Silvia Casini (University of Aberdeen).*

Good at heart. Fetal heartbeat listening practices in midwifery care in Germany. *Annekatrin Skeide (University of Amsterdam).*

Biophilic entanglements - intimate life in urban environments. *Des Fitzgerald (Cardiff University).*

Intimacy over 'evidence': disrupting modes of knowing drug-related harm. *Fay Dennis (Goldsmiths, University of London).*

A27 The power of correlation and the promises of auto-management. On the epistemological and societal dimension of data-based algorithms

Convenors: Jutta Weber (University Paderborn); Gabriele Gramelsberger (RWTH Aachen University)
Welcome Centre Lecture Theatre 2: **third of three sessions**

Continuities and discontinuities in the governance of motorized and autonomous traffic. *Cordula Kropp (Uniuversität Stuttgart).*

Shaping haptics, meeting humans: data-clustering algorithms in human-robot-collaborations. *Dawid Kasprowicz (RWTH Aachen University); Gabriele Gramelsberger (RWTH Aachen University).*

B06 Collaboration in/with "open labs": studying the objects of boundary-making and crossing

Convenors: Morgan Meyer (MINES ParisTech); Evelyne Lhoste (Laboratoire Interdisciplinaire Sciences Innovations Sociétés); Luis Felipe Rosado Murillo (CNAM/IFRIS)
Bowland North Seminar Room 23: **third of three sessions**

Foundational stories : words and the making of maker institutions in China. *Clément Renaud (École Polytechnique Fédérale de Lausanne).*

Organizing inclusion: getting through the borders of innovative communities. *Evelyne Lhoste (Laboratoire Interdisciplinaire Sciences Innovations Sociétés); Marc Barbier (Institut National de la Recherche Agronomique).*

C05 Science, innovation and inequality: part of the solution or the problem?

Convenors: Koen Beumer (Utrecht University); Melanie Smallman (University College London)
Frankland Colloquium (Faraday Complex): **first of two sessions**

Machine intelligence and inequalities in work and working futures. *Vahini Sangarapillai (University of Nottingham).*

Who will be in charge of agency of driving? Negotiating the future of automobility between gender studies and automotive engineering. *Sandra Buchmüller (Technische Universität Braunschweig); Corinna Bath (Technische Universität Braunschweig).*

Can GIS help with the equitable targeting of "smart" interventions? *Aleksandra Michalec (University of the West of England); Enda Hayes (University of the West of England).*

Access to equipment and epistemic injustices within scientific research. *Louise Bezuidenhout (University of Oxford).*

C09 Bio-objectification: meetings and new thresholds across the bio-social

Convenors: Bettina Bock von Wülfingen (Humboldt-Universität zu Berlin); Conor Douglas (Maastricht University); Andrew Webster (University of York)
Cavendish Colloquim (Faraday Complex): **first of two sessions**

Bioengineering as a site of bio-objectivation. *Benjamin Raimbault (Institut National de la Recherche Agronomique).*

Bio-objectification and interdisciplinarity: the case of a Norwegian project on tissue engineering. *Maria Bårdsen Hesjedal (Norwegian University of Science and Technology).*

Making bio-objects mobile. *Michael Morrison (University of Oxford).*

What is the matter? Bio-objectification and -identification of donor sperm and sperm donors in new contexts. *Ragna Zeiss (Maastricht University).*

C16 Data worlds? Public imagination and public experimentation with data infrastructures

Convenors: Tommaso Venturini (École Normale Supérieure Lyon); Carolin Gerlitz (University of Amsterdam); Jonathan Gray (King's College London); Noortje Marres (University of Warwick)
Frankland Lecture Theatre (Faraday Complex): **third of four sessions**

Open data infrastructures: the tension between attachment, detachment and reattachment. *Antoine Courmont (Sciences Po).*

Emerging data infrastructures and ethnographic world-making. *Maja Hojer Bruun (Aalborg University); Astrid Oberborbeck Andersen (Aalborg University).*

Teaching to problematise digital infrastructures through data activism. *Tommaso Venturini (École Normale Supérieure Lyon).*

Death, taxes and gases: the issuefication of data and the datafication of issues. *Jonathan Gray (King's College London).*

C26 Precision medicine at the crossroads: meeting the micro and macro, the molecular and social in new medical strategies

Convenors: Nadav Even Chorev (European Institute of Oncology); Ilaria Galasso (European Institute of Oncology)
Bowland North Seminar Room 20: **third of three sessions**

Patients becoming with predictive technologies: examining relationality in practice in a personalized cancer clinical trial. *Nadav Even Chorev (European Institute of Oncology).*

D01 Politicizing futures. When conflicting visions meet

Convenors: Andreas Lösch (Karlsruhe Institute of Technology); Alexandra Hausstein (Karlsruhe Institute of Technology); Christoph Schneider (Technical University of Munich); Ulrich Ufer (Karlsruhe Institute of Technology)
Elizabeth Livingston Lecture Theatre (Bowland North): **third of four sessions**

Reconfiguring regional energy spaces: competing dispositives and imaginaries. *Ludger Gailing (Leibniz Institute for Research on Society and Space).*

Futures in fracking: how shale gas inspires dynamic and conflicting visions. *Simone Ines Lackerbauer (University of Augsburg); Reiner Keller (University of Augsburg).*

Foreclosing "conflict": an ethnography of futures at the European Spallation Source. *Ivanche Dimitrievski (Linköping University).*

Functions of media utopianism in innovation processes. *Jan-Felix Schrape (University of Stuttgart).*

D02 Challenging formal arrangements and decision-making in the energy sector

Convenors: Olivier Ejderyan (ETH Zurich); Shannon Spruit (Delft University of Technology)
Bowland Hall Main Room: **third of three sessions**

Citizen stakeholder's visions of monitoring strategies in nuclear waste disposal sites: an inquiry into the political life of a 'counter-imaginary'. *Axelle Meyermans (Universiteit Antwerpen); Pieter Cools (Universiteit Antwerpen).*

Challenging water-energy governance: the mega-hydropower project in Río Marañón and its contestation. *Rocio Juliana Herrera (Karlsruher Institut für Technologie); Alena Israel (Karlsruhe Institute of Technology).*

New roles, actors and strategies seeking to influence Finnish energy policy. *Kamilla Karhunmaa (Helsinki University); Laura Kainiemi (Aalto University).*

E02 The European Other as site of institutional experiment. Articulating friction in infrastructures for processing alterity

Convenors: Melpomeni Antonakaki (Technical University of Munich); Annalisa Pelizza (University of Twente)
Discussants: Anne-Marie Fortier (Lancaster University), Lucy Suchman (Lancaster University)
Bowland North Seminar Room 7: **first of two sessions**

Processing alterity, shaping the order of Europe. *Annalisa Pelizza (University of Twente).*

Harmonising the country of origin information infrastructure. *Jasper van der Kist (University of Manchester).*

Media narratives about transnational criminal surveillance systems: constructing the "European others". *Marta Martins (University of Minho); Helena Machado (University of Minho).*

E06 The room where it happens: inclusion, exclusion and power in STS research and practice

Convenors: Katharine Howell (Lancaster University); Craig Jones (Lancaster University)
Marcus Merriman Lecture Theatre (Bowland North): **third of three sessions**

Conducting fieldwork at the crossroads: a case study of hybrid meetings in the workplace. *Banu Saatci (Aarhus University).*

The state as facilitator and knowledge broker in the agora. *Haris (Charalambos) Shekeris (Université Jean Moulin Lyon 3).*

F03 Scientists - agents under construction

Convenors: Sarah Schönbauer (Technical University of Munich); Rosalind Attenborough (University of Edinburgh)
Welcome Centre Lecture Theatre 4: **third of four sessions**

Meeting the diversified demands for knowledge: reconciling modernist and reflexive values for knowledge production. *Lisa Verwoerd (Athena Institute, Vrije Universiteit Amsterdam); Eva-Maria Kunseler (PBL Netherlands Environmental Assessment Agency); Barbara Regeer (Athena Institute, Vrije Universiteit Amsterdam).*

Meeting between the scientist and the public: RRI as a challenging transformation of scientists' identity. *Andreas Rößß (Fraunhofer Institute for Systems and Innovation Research ISI), Philine Warnke (Fraunhofer Institute for Systems and Innovation Research ISI).*

The open science "revolution": changing policy, practice - and people? *Rosalind Attenborough (University of Edinburgh).*

The politics of what humanists do: digital humanities as an epistemic regime. *Thomas Franssen (Leiden University).*

F09 Democracies of controlled experimentation? The emerging landscape of social laboratories

Convenors: Franziska Engels (WZB Berlin Social Science Center); Kyriaki Papageorgiou (ESADE/Harvard Kennedy School); Sebastian Pfotenhauer (Technical University of Munich); Verena Kontschieder (Technical University of Munich)
Faraday Complex Seminar Room 1: **third of three sessions**

Turning Wallonia into a lab: when economic strategies meet creativity and experimentation dynamics. *Hadrien Macq (University of Liège).*

Producing findings in an industrial usability testing lab. *Stuart Reeves (University of Nottingham).*

Urban labs as resilience practices. *Sabrina Huizenga (Erasmus University Rotterdam); Roland Bal (Erasmus University Rotterdam); Hester van de Bovenkamp (Erasmus University Rotterdam).*

F10 The public imagination of the future

Convenors: Roy Bendor (Delft University of Technology); Joost Vervoort (Utrecht University); Peter Pelzer (Utrecht University); Jesse Hoffman (Utrecht University)
Bowland North Seminar Room 4: **third of three sessions**

Changing futures for gas in the Netherlands – exploring the role of the public in energy system change. *Toyah Rodhouse (Delft University of Technology); Eefje Cuppen (Delft University of Technology); Udo Pesch (Delft University of Technology); Aad Correljé (Delft University of Technology).*

Imaginaries of acceptance. *Bernhard Wieser (Graz University of Technology); Martina Lang.*

G01 Scrutinizing (bio-)technological truth assessments

Convenors: Torsten Heinemann (Universität Hamburg); Larissa Fischer (Universität Hamburg); Bettina Paul (Universität Hamburg)
Bowland North Seminar Room 10: **first of two sessions**

Scrutinizing "genetic truth" and protection of personal data. *Sara Matos (University of Minho); Helena Machado (University of Minho).*

A fixation with quantification and the age of 18? Inscriptions in a new technology for age assessment for asylum cases in Sweden. *My Hyltegren (University of Gothenburg).*

Technologies of sensing and sense making. Frontex Screening and its socio-technical assemblage of truth assessment at Moria Hotspot, Greece. *Silvan Pollozek (Technical University of Munich).*

The polygraph and police interrogations. *Andrew Balmer (University of Manchester).*

W01 Teaching STS in an age of post-truth. Sharing challenges, approaches and experiences (Workshop)

Convenors: Sofia Bento (University of Lisbon); Jessica Mesman (Maastricht University); Geert Somsen (Maastricht University); Maximilian Fochler (University of Vienna); Pablo Schyfter (University of Edinburgh)
FASS Building Meeting Room 1: **first of two sessions**

Beyond moral judgement: enhancing technology awareness of students in the social sciences and humanities. *Elke Hemminger (Protestant University of Applied Sciences Bochum); Michael Waltemathe (Ruhr-University Bochum).*

Teaching genetics with STS: an innovative program to make students fit for post-truth debates. *Imme Petersen (Technical University Braunschweig); Corinna Bath (Technische Universität Braunschweig).*

The science in society laboratories: training students to analyse contemporary techno-scientific controversies and develop normative recommendations. *Maximilian Fochler (University of Vienna); Andrea Schikowitz (University of Vienna); Ulrike Felt (University of Vienna); Susanne Oechsner (University of Vienna).*

Friday 27th July 16:00-17:30

A10 Commoning the smart city

Convenors: Nicole Foster (University of the West of England); .ginger .coons
Bowland North Seminar Room 2: **single session**

Towards a smart city 2.0: smartness as a tool for tackling social problems. *Gregory Trencher (Tohoku University).*

Could smart community improve healthcare efficiency? *Tim Woolliscroft (Sheffield Hallam University).*

University students' perspectives of a Smart City: integrating needs and aspirations. *Regine Sonderland Saga (Manchester Metropolitan University); Paul O'Hare (Manchester Metropolitan University); Rachel Dunk (Manchester Metropolitan University).*

The politics of urban design: Google is here to 'fix' Toronto. *Anna Artyushina (York University).*

A14 In other words: caring for water

Convenors: Annemarie Mol (University of Amsterdam); Marianne de Laet (Harvey Mudd College)
Faraday Lecture Theatre (Faraday Complex): **second of two session**

Mixing dirt with water. Or, on the importance of keeping the bacteria content. *Marianne de Laet (Harvey Mudd College).*

Groundwater and pataler pani in Dhaka. *Hasan Ashraf (Jahangirnagar University).*

The continuity and translations of the river Emscher. *Estrid Sørensen (Ruhr-Universität Bochum).*

Water, solidarity and the hereafter in Madagascar: or how to keep society and the pump running? *Sara de Wit (University of Oxford).*

A21 Outward and inward encounters: STS meets Outer Space

Convenors: Richard Tutton (Lancaster University); Franc Mali (Ljubljana University); Matjaz Vidmar (University of Edinburgh)
Bowland North Seminar Room 6: **single session**

The panopticon reversed? A mutual perspective on and from Earth and Outer Space. *Michael Clormann (Technical University of Munich); Nina Witjes (Technical University of Munich).*

Silicon Valley and the multiplanetary imaginary. *Richard Tutton (Lancaster University).*

Innovation meets Outer Space: transforming networks, organisations and people. *Matjaz Vidmar (University of Edinburgh).*

Meet the solar monster: space weather security in the data centre industry. *Alexander Taylor (University of Cambridge).*

A28 Socio-technical encounters in the city: urban spaces, data infrastructures and new modes of civic engagement

Convenors: Juliane Jarke (University of Bremen); Anna-Lisa Müller (University of Bremen)
Cavendish Lecture Theatre (Faraday Complex): **single session**

Bias in, bias out: urban mobility in data science for social good. *Anissa Tanweer (University of Washington).*

Data infrastructures for all: the case of community networks and the DiY IoT Scene. *Andres Dominguez (University of Edinburgh).*

Extracting key learnings from a multi-sited urban citizen sensing project. *Alexandre Pólvora (European Commission); Susana Nascimento (European Commission, Joint Research Centre).*

Geographies of light, affective atmospheres and digital sensory enhancements. *Manuel Portela (Universitat Jaume I); Carlos Granell (Universitat Jaume I).*

B03 Open design & manufacturing in the platform economy

Convenor: Raúl Tabarés (Tecnalia)
Discussants: Vasilis Niaros (P2P Foundation), Massimo Menichelli (Institute for Advanced Architecture of Catalonia, Fab City Research Lab)
Bowland North Seminar Room 23: **single session**

Governing crowd-based innovations: sociotechnical reconfiguration through institutional work. *Eefje Cuppen (Delft University of Technology).*

Citizen participation in open design for sustainable energy system. *Jin Hee Park (Dongguk University); Dong Kwang Kim (Korea University).*

Human agency in post-automation: an analysis into the appropriation of digital design and fabrication technologies by crafters and coders in non-industrial settings. *Cian O'Donovan (University of Sussex); Adrian Smith (University of Sussex).*

Open manufacturing as an alternative path for Industry 4.0. *Raúl Tabarés (Tecnalia).*

C01 Genetic technologies: intersecting criminal investigation, disaster victim identification and commercial uses

Convenors: Rafaela Granja (University of Minho); Victor Toom (Goethe University)
Bowland North Seminar Room 20: **single session**

Assembling and disassembling ethical controversies of familial searching: the cases of the UK and Poland. *Rafaela Granja (University of Minho); Helena Machado (University of Minho).*

Forensic DNA retention: public perspective studies in the United Kingdom and around the world. *Aaron Amankwaa (Northumbria University).*

The "technopolitics of likelihood": the French National DNA Database (FNAEG) and the comparison of genetic profiles. *Voloona Rabeharisoa (Centre de Sociologie de l'Innovation); Florence Paterson (MINES ParisTech, CNRS, PSL).*

Intersecting discourses of security, commerce and race. Forensic DNA phenotyping and biogeographical ancestry prediction in the German public debate. *Matthias Wienroth (Newcastle University); Veronika Lipphardt (University of Freiburg); Denise Syndercombe Court (King's College London).*

The death, the living and the disappeared: bringing back absent bodies in mass atrocities through DNA, and cybernetic citizenship. *Ernesto Schwartz-Marin (Exeter University); Arely Cruz-Santiago.*

C05 Science, innovation and inequality: part of the solution or the problem?

Convenors: Koen Beumer (Utrecht University); Melanie Smallman (University College London)
Frankland Colloquium (Faraday Complex): **second of two sessions**

Inequality matters - comparing discourses of innovation in UK and post-apartheid South Africa. *Melanie Smallman (University College London); Koen Beumer (Utrecht University).*

Emerging inequalities in advocating for life itself: innovations in crowdfunding medical expenses and the assetization of moral worthiness. *Matt Wade (Nanyang Technological University).*

Which comes first? The construction of problems or solutions: science and technology agenda and social inequalities. *Santiago Alzugaray (Universidad de la República, Uruguay).*

C09 Bio-objectification: meetings and new thresholds across the bio-social

Convenors: Bettina Bock von Wülfingen (Humboldt-Universität zu Berlin); Conor Douglas (Maastricht University); Andrew Webster (University of York)
Cavendish Colloquim (Faraday Complex): **second of two sessions**

Information and the biopolitical: thinking across bio-objects. *Eric Deibel (Bilkent University).*

Meeting success and failure in Alzheimer's disease drug development. *Richard Milne (University of Cambridge).*

C15 When responsible innovation meets economic crisis: considering the possibilities of 'responsible stagnation'

Convenors: Stevienna de Saille (University of Sheffield); Michiel Van Oudheusden (KU Leuven)
Welcome Centre Lecture Theatre 3: **single session**

Responsible Research and Innovation (RRI) in turbulent times: how the British broader political context is shaping the RRI practices of the Engineering and Physical Science Research Council (EPSRC). *Mario Pansera (University of Bristol).*

Protecting and perfecting nature: performing responsibility in academic-industry collaboration. *Sally Atkinson (University of Exeter); Susan Molyneux-Hodgson (University of Exeter).*

Conceptualising the individual in the innovation discourse: implications for development. *Andrea Jimenez (University of Sheffield).*

C16 Data worlds? Public imagination and public experimentation with data infrastructures

Convenors: Tommaso Venturini (École Normale Supérieure Lyon); Carolin Gerlitz (University of Amsterdam); Jonathan Gray (King's College London); Noortje Marres (University of Warwick)
Frankland Lecture Theatre (Faraday Complex): **fourth of four sessions**

Instrumental, collaborative, agonistic: a spectrum of civic data projects in Los Angeles. *Morgan Currie (University of Edinburgh).*

Acts of digital parasitism: data, humanitarian apps and platform economies. *Claudia Aradau (King's College London); Tobias Blanke (Kings College London).*

C21 Co-creation of legitimacy, legitimacy of co-creation - double remedy or double crisis?

Convenors: Jeremias Herberg (Institute for Advanced Sustainability Studies); Giulia Molinengo (Institute for Advanced Sustainability Studies)
Bowland Hall Main Room: **single session**

"Epistemic participation" - co-creation of legitimate scientific knowledge and policy under the condition of extreme uncertainty. *Werner Reichmann (University of Konstanz).*

Meaningful co-creation and collaboration: how high do the stakes have to be? *Rebecca Freeth (Leuphana University).*

Co-creation and the problematic of the coal-phase out in Lusatia. *Jeremias Herberg (Institute for Advanced Sustainability Studies)*

D01 Politicizing futures. When conflicting visions meet

Convenors: Andreas Lösch (Karlsruhe Institute of Technology); Alexandra Hausstein (Karlsruhe Institute of Technology); Christoph Schneider (Technical University Munich); Ulrich Ufer (Karlsruhe Institute of Technology)
Elizabeth Livingston Lecture Theatre (Bowland North): **fourth of four sessions**

Imagined computer futures. Fear, technology and politics in Italian sociotechnical imaginaries (1977-1994). *Ginevra Sanvitale (Eindhoven University of Technology).*

Controversy on the cognitive science of religion: when conflicting visions fuel epistemic conflicts. *Mareike Smolka (Maastricht University).*

E02 The European Other as site of institutional experiment. Articulating friction in infrastructures for processing alterity

Convenors: Melpomeni Antonakaki (Technical University of Munich); Annalisa Pelizza (University of Twente)
Discussants: Anne-Marie Fortier (Lancaster University), Lucy Suchman (Lancaster University)
Bowland North Seminar Room 7: **second of two sessions**

'Folded Infrastructure' two years on: what is at stake when unregulated spaces generate "best practices"? *Melpomeni Antonakaki (Technical University of Munich); Bernd Kasparek (University of Göttingen).*

"Something like hospitality": the "illegal" migrant in discourses and materialities regarding pre-removal centers and registration/identification infrastructures after the EU-Turkey deal. *Ermioni Frezouli (University of Twente); Annalisa Pelizza (University of Twente); Aristotle Tympas (National and Kapodistrian University of Athens).*

Criminalisation and identity at the margins of EU databases. *Vasilis Vlassis (IT University Copenhagen).*

E03 Software sorted subjectivities

Convenors: Baki Cakici (IT University of Copenhagen); Marisa Cohn (IT University of Copenhagen)
Discussant: Adrian Mackenzie (Lancaster University)
Marcus Merriman Lecture Theatre (Bowland North): **single session**

CTRL+ALT+DEL: software sorted exclusion of asylum seekers in European population statistics and emergent subjectivities. *Marja Alastalo (University of Eastern Finland); Funda Ustek-Spilda (Goldsmiths, University of London).*

Learning to program realities and identities: diffractions of rendering technical in undergraduate computer science education. *Samantha Breslin (Memorial University of Newfoundland).*

Telling stories about (re)search: research practices reconfigured by digital search technologies. *Sabrina Sauer (University of Groningen); Berber Hagedoorn (University of Groningen).*

Facial recognition technology as software of categorization. *Abigail Nieves Delgado (Ruhr University Bochum).*

F03 Scientists - agents under construction

Convenors: Sarah Schönbauer (Technical University of Munich); Rosalind Attenborough (University of Edinburgh)
Welcome Centre Lecture Theatre 4: **fourth of four sessions**

Identity formation and transformation in transdisciplinary scholarship: the case of Technology Assessment. *Anja Bauer (Alpen-Adria-Universität Klagenfurt); Karen Kastenhofer (Austrian Academy of Sciences).*

Transdisciplinary subjectivation. Negotiating scientific identities, skills, and normativities in the arena of sustainable energy transformations. *Mirko Suhari (Zeppelin University).*

Beyond cosmopolitans and locals: international research collaboration and academic identity formation. *Anna Kosmützky (Leibniz Universität Hannover); Romy Wöhlert (University of Leipzig).*

G01 Scrutinizing (bio-)technological truth assessments

Convenors: Torsten Heinemann (Universität Hamburg); Larissa Fischer (Universität Hamburg); Bettina Paul (Universität Hamburg)
Bowland North Seminar Room 10: **second of two sessions**

Modes of seeing and socio-technical visions in the research field of truth verification. *Bettina Paul (Universität Hamburg); Larissa Fischer (Universität Hamburg); Torsten Heinemann (Universität Hamburg).*

W01 Teaching STS in an age of post-truth. Sharing challenges, approaches and experiences (Workshop)

Convenors: Sofia Bento (University of Lisbon); Jessica Mesman (Maastricht University); Geert Somsen (Maastricht University); Maximilian Fochler (University of Vienna); Pablo Schyfter (University of Edinburgh)
FASS Building Meeting Room 1: **second of two sessions**

The special workshop will build on the papers presented in the first session and feature STSers responsible for teaching programs as discussants. We will discuss challenges and opportunities of post-truth dynamics for building STS teaching. Depending on the number of colleagues in the room, we will have multiple tables, with no distinction between presenters and audience.

Saturday 28th July, 09:30-11:00

A02 Predictive policing and the socio-technical government of risk

Convenors: Simon Egbert (Universität Hamburg); Matthias Leese (ETH Zurich)
Welcome Centre Lecture Theatre 2: **first of two sessions**

Unfolding algorithms. The case of predictive policing. *Bilel Benbouzid (University of East Paris).*

Knowing that it works: epistemologies of evaluating predictive hotspot policing. *Daniel Marciniak (University of Essex).*

Keeping the machine in check: predictive policing and the "human in the loop". *Matthias Leese (ETH Zurich).*

A03 The social life of smart homes

Convenors: Stuart Reeves (University of Nottingham); Murray Goulden (University of Nottingham)
Faraday Lecture Theatre (Faraday Complex): **first of two sessions**

On the embedding of voice agents in everyday home life. *Stuart Reeves (University of Nottingham).*

"Click here to delete the family group": 'smart' taxonomies and domestic life. *Murray Goulden (University of Nottingham).*

Your mother is watching you: lateral surveillance in smart homes. *Albrecht Kurze (Chemnitz University of Technology); Andreas Bischof (Chemnitz University of Technology); Johanna Richter (Chemnitz University of Technology).*

Supporting caregivers and care recipients with home-based technology: an Amazon Alexa pilot. *Galina Madjaroff (University of Maryland Baltimore County).*

A13 Of other landscapes

Convenors: Endre Danyi (Goethe University Frankfurt); Michaela Spencer (Charles Darwin University)
Bowland North Seminar Room 6: **first of two sessions**

Cosmopolicy-in-practice. *Endre Danyi (Goethe University Frankfurt); Michaela Spencer (Charles Darwin University).*

Landscape and heterotopia in New Zealand: conflict over oil and gas development. *Bill Doolin (Auckland University of Technology); Brian Bloomfield (Lancaster University).*

Can the STS scholar speak? Or what are the conditions necessary for telling stories in academia? *Natalie Gill.*

Beach encounters: narrating the refugee crisis and its material traces. *Amade M'charek (University of Amsterdam).*

A18 Uncertain futures: green alternatives and STS interventions

Convenors: Luigi Pellizzoni (University of Pisa); Les Levidow (Open University)
Discussant: Igmar Lippert (Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science)
Bowland Lecture Theatre (Bowland Main): **first of two sessions**

Hopeful extinctions? Tesla, technological solutionism and the Anthropocene. *Sy Taffel (Massey University).*

Modes of urban greening? Civic urban natures in-between familiar engagement and green critique. *Anders Blok (University of Copenhagen); Jakob Laage-Thomsen (University of Copenhagen).*

Visions of green futures in energy research. *Thomas Harboell Schroeder (Chung Yuan Christian University).*

Green futures between respecting and transgressing boundaries. *Georg Jochum (Technical University of Munich).*

A25 Trouble swallowing? Food, technoscience and publics

Convenors: Laurie Waller (Technical University of Munich); Mascha Gugganig (Technical University Munich)
Cavendish Lecture Theatre (Faraday Complex): **single session**

Cultivating engagement with 'citizens' and 'consumers' - doing a citizen participation forum on vertical farming at a European food innovation consortium. *Mascha Gugganig (Technical University Munich).*

Sensory and embodied engagement: situating anticipation of biotechnological flavours in everyday practices. *Robert Meckin (University of Manchester).*

Attributing qualities to seeds: expert meetings and farmers' workshops in the Colombian cotton sector. *Diego Silva Garzon (Graduate Institute of International and Development Studies).*

The co-production of (fake) meat and masculinities. *Martin Winter (Technische Universität Darmstadt).*

Embodied citizenship - politicizing gendered inequalities in local food networks. *Carla Wember (University of Kassel).*

A29 Toxicity in the 21st century

Convenors: Tom Widger (Durham University); Annamaria Carusi (University of Sheffield)
Bowland North Seminar Room 2: **first of two sessions**

What is a poison? Disambiguation and ethics in the agrochemical industry. *Tom Widger (Durham University).*

Toxic technology: a risk discourse on agrochemicals in Cameroon. *Annika Witte (University of Goettingen).*

Grounding the data: community-based toxicology in Northern Alberta, Canada. *Sarah Blacker (Technical University of Munich).*

Chemicals in the 21st century: morphing models, blurring boundaries. *Annamaria Carusi (University of Sheffield).*

B08 From A to B: orders and disorders of routing and navigation

Convenors: Adrian Mackenzie (Lancaster University); Paula Bialski (Leuphana University Lüneburg)
Welcome Centre Lecture Theatre 3: **first of two sessions**

Organising demonstrations of public transport disruption: transport for London's use of social media management software. *Jessamy Perriam (Open University).*

"Please make a legal U-turn". Construction works along navigation routes. *Annelie Pentenrieder (University of Paderborn).*

Ordering the mess of everyday traffic. *Goede Both (TU Braunschweig/University of Cologne).*

Mathematical models and computer simulation in transportation economics. *Jérémy Grosman (Research Center for Information Law and Society).*

C10 Technology, infrastructure, and the smartification of cities

Convenors: Davide Orsini (Mississippi State University); Regev Nathansohn (University of Haifa)
Frankland Colloquium (Faraday Complex): **single session**

Strategic planning and the 'smartification' of the city. *Uri Ansenberg (University of Manchester).*

Ethnography and the "Smart City". *Regev Nathansohn (University of Haifa).*

C18 Open questions in STS and geoengineering

Convenors: Gabriel Dorthe (Institute for Advanced Sustainability Studies); Stefan Schäfer (Institute for Advanced Sustainability Studies)
Frankland Lecture Theatre (Faraday Complex): **first of two sessions**

Climate intervention: new and emerging opportunities in STS. *James Fleming (Colby College).*

Between magic and hubris: the geoengineering turn in climate policy and the global South. *Jeremy Baskin (University of Melbourne).*

What is responsible climate geoengineering? Contested notions of responsibility in climate engineering expert discourses. *Nils Matzner (Alpen-Adria-Universität Klagenfurt).*

Diverging imaginations of climate engineering: how different scientific communities construct climate engineering promises. *Jeroen Oomen (Rachel Carson Center, Ludwig-Maximilians-Universität München).*

C24 Caring, negotiating and tinkering for IT in/security

Convenors: Katharina Kinder-Kurlanda (GESIS Leibniz Institute for the Social Sciences); Estrid Sørensen (Ruhr-Universität Bochum); Laura Kocksch (Ruhr-University Bochum); Andreas Poller (Fraunhofer Institute for Secure Information Technology); Susann Wagenknecht (University of Siegen)
Bowland North Seminar Room 20: **first of two sessions**

Tinkering with humans? Social engineering and the construction of the "deficient user" in cyber security. *Nina Witjes (Technical University of Munich); Alexander Wentland (Technical University of Munich).*

Security and the DevOps imaginary. *Matt Spencer (University of Warwick).*

Whom do we fear? Between pop-cultural myth and hacking collectives - negotiations on the meaning of hack. *Aleksandra Łuksza (Nicolaus Copernicus University).*

Opening (and closing) doors for security: negotiations of trust. *Abigail Nieves Delgado (Ruhr University Bochum); Estrid Sørensen (Ruhr-Universität Bochum); Olga Galanova.*

D03 Contested gates -- epistemic and social implications of opening knowledge production and science communication

Convenors: Sascha Dickel (Johannes Gutenberg University); Andreas Wenninger (Technical University of Munich); Werner Reichmann (University of Konstanz)
Bowland Hall Main Room: **first of two sessions**

Rethinking openness in science: systemic implications of reintermediation replacing mechanisms of transparency. *Alexander Gerber (Rhine-Waal University/INSCICO).*

Opening science to civic society: the case of stakeholder committees in research organisations in France. *Lucile Ottolini (INRA/INERIS).*

How can we do bovine Tuberculosis science? Boundary objects, method standardisation and divergent viewpoints in a 'Badger Found Dead Survey'. *Jess Phoenix (Lancaster University).*

Hype, risk, modesty, and Frequently Asked Questions: opening up (new spaces in) science and closing down controversy? *Kaya Akyuz (University of Vienna).*

E01 Publics shaped and enacted by surveillance, border and post-crisis management technologies: encountering "phantom publics", "non-publics" and "counter publics"

Convenors: Vasilis Galis (IT University of Copenhagen); Nina Amelung (University of Minho)
Marcus Merriman Lecture Theatre (Bowland North): **single session**

"Bio-bordering" in the EU and the surveillance of "non-publics". *Nina Amelung (University of Minho); Helena Machado (University of Minho).*

Hacking the shelter: infrastructural "counter publics" and the management of forced migration. *Tim Schütz (Goethe University Frankfurt).*

Co-inventing a participatory "return of experience" digital platform for post-crisis management in Belgium. *Colin Glesner (University de Liège).*

E07 After data activism: reactions to civil society's engagement with data

Convenors: Guillén Torres (University of Amsterdam); Stefania Milan (University of Amsterdam)
Chair: Katja Mayer (Technical University of Munich)
Elizabeth Livingston Lecture Theatre (Bowland North): **first of two sessions**

The influence of data practices on the relationship between civil society organisations and their audiences. *Amber Macintyre (Royal Holloway, University of London).*

Unravelling power asymmetries within Atlanta's housing data assemblage. *Firaz Peer (Georgia Institute of Technology); Yanni Loukissas (Georgia Institute of Technology).*

Forming a common good? Ideas and challenges of communal data sharing. *Chih-hsing Ho (Academia Sinica).*

Closing the circle: Dave Eggers trumps Orwell in China. *David Kurt Herold (Hong Kong Polytechnic University).*

F08 Medicine meets the sexed body: discovering, diagnosing, producing and shaping

Convenors: David Andrew Griffiths (University of Surrey); Sorcha Ui Chonnachtaigh (Keele University)
Welcome Centre Lecture Theatre 4: **single session**

Medicine meets the intersex body: the creation of sex and the creation of a disorder. *Sorcha Ui Chonnachtaigh (Keele University).*

Conceptions of the transgender brain: from binary, sex reversed and pathological to something beyond? *Linda Weichselbraun (University of Gothenburg).*

When technology meets nature in the production of gendered bodies: the case of breast re/construction. *Cinzia Greco (University of Manchester).*

Intersex and the ethics of exclusion: choosing, postponing and cutting. *David Andrew Griffiths (University of Surrey).*

G02 From detachment to appropriation: performing commodification

Convenors: Saskia Brill (Rachel Carson Center); Veit Braun (Ludwig Maximilian University of Munich)
Chair: Alexander Dobeson (Uppsala University)
Bowland North Seminar Room 10: **first of two sessions**

Assets, commodities, and their boundaries. *Kean Birch (York University).*

Producing commodities and gifts in the trade of used clothing: production-oriented and item-oriented models in English charity shops. *Emma Greeson (University of California, San Diego).*

Temporary decommodification? Sorting things out in the capitalist value chain of soy in Argentina. *Pierre Delvenne (University of Liège).*

Distinct, uniform, stable: breeding the perfect good. *Veit Braun (Ludwig Maximilian University of Munich).*

G06 Integrity: personal virtue, remedy for fraud, object of governance?

Convenors: Sarah de Rijcke (Leiden University); Bart Penders (Maastricht University); Barend van der Meulen (Rathenau Instituut); Govert Valkenburg (Leiden University)
Bowland North Seminar Room 7: **first of two sessions**

Situating integrity: locating policy concepts in practice. *Katrine Lindvig (University of Copenhagen); Sarah Davies (University of Copenhagen).*

Building cultures of integrity: the interaction between promotion structures and research integrity. *Govert Valkenburg (Leiden University).*

How institutions think: governing research integrity in university environments. *Ulrike Felt (University of Vienna); Florentine Frantz (University of Vienna).*

The bureaucratization of research integrity. *Barend van der Meulen (Rathenau Instituut).*

V06 Markets, innovation dynamics and system building

Convenors: Gordon Walker (Lancaster University)
Bowland North Seminar Room 23: **single session**

The role of system builders in UK urban tramway development, 1870-1896. *Anne-Marie Coles (University of Greenwich).*

The cash register as a mundane market device. *Athena Piterou (University of Greenwich).*

Responsible innovation in eHealth? A comparison of projects, networks, and processes. *Kornelia Konrad (University of Twente); Verena Schulze Greiving (University of Twente); Paul Benneworth (University of Twente).*

Innovation systems and the innovation market: what relations? *Andrzej Jasinski (University of Warsaw).*

W02 The ethnographic case [Closed roundtable]

Convenor: Emily Yates-Doerr (University of Amsterdam)
Chair: Joe Deville (Lancaster University)
Discussant: Julien McHardy (Mattering Pres / Independent)
FASS Building Meeting Room 1: **single session**

Saturday 28th July, 11:30-13:00

A02 Predictive policing and the socio-technical government of risk

Convenors: Simon Egbert (Universität Hamburg); Matthias Leese (ETH Zurich)
Welcome Centre Lecture Theatre 2: **second of two sessions**

Secrets as a privilege of governing: the case of QlikView/STATUS in Swedish police. *Giorgos Mattes (National & Kapodistrian University of Athens).*

Predictive punishment? The detecta and the "governamentalization" of the security polices in São Paulo. *Alcides Eduardo dos Reis Peron (University of São Paulo).*

A03 The social life of smart homes

Convenors: Stuart Reeves (University of Nottingham); Murray Goulden (University of Nottingham)
Faraday Lecture Theatre (Faraday Complex): **second of two sessions**

Home energy management in smart homes: what role for householders? *Robin Smale (Wageningen University); Gert Spaargaren (Wageningen University).*

Engaging with smart assistants, reshaping home activities. *Clair-Antoine Veyrier (SENSE, xdlab, Orange Labs); Julia Velkovska (Orange Labs); Moustafa Zouinar.*

Are smart electricity display-monitors smart enough to disrupt the everyday? *Máté János Lőrincz (University of Reading).*

A13 Of other landscapes

Convenors: Endre Danyi (Goethe University Frankfurt); Michaela Spencer (Charles Darwin University)
Bowland North Seminar Room 6: **second of two sessions**

Views from the edge: prototyping rapid ethnographic methods in Madeira. *Justin Pickard (University of Sussex); Michelle Kasprzak (Madeira Interactive Technologies Institute).*

We come to sublime electric worlds. *Laura Watts (University of Edinburgh).*

Reading examinations on Tibetan maps 1886: cartographic practices and the displacement of ontological world in modernity. *Su Hu.*

Memory and the cityscape. Assemblage thinking in memories about the AIDS epidemic in New York City. *Christopher Zraunig (University of Amsterdam).*

A18 Uncertain futures: green alternatives and STS interventions

Convenors: Luigi Pellizzoni (University of Pisa); Les Levidow (Open University)
Discussant: Igmar Lippert (Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science)
Bowland Lecture Theatre (Bowland Main): **second of two sessions**

Science, faith and environmental apocalypse. *Hauke Riesch (Brunel University London).*

Crafting the sustainable future: the values, knowledge and technology of Lammas ecovillage. *Willow Leonard-Clarke (Cardiff University).*

A29 Toxicity in the 21st century

Convenors: Tom Widger (Durham University); Annamaria Carusi (University of Sheffield)
Bowland North Seminar Room 2: **second of two sessions**

The materiality of invisibility: on making EDCs into actionable objects. *Mariana Rios Sandoval (University of Amsterdam).*

B08 From A to B: orders and disorders of routing and navigation

Convenors: Adrian Mackenzie (Lancaster University); Paula Bialski (Leuphana University Lüneburg)
Welcome Centre Lecture Theatre 3: **second of two sessions**

Navigations to personalized destinations: Foursquare and the calculation of subjects of locational tastes. *Sarah Widmer (University of Neuchâtel).*

Hold it together: thresholds of understanding when building routing software. *Paula Bialski (Leuphana University Lüneburg).*

BW02 (Better) Visualisations for keeping things together & apart (Workshop)

Convenor: Alex Wilkie (Goldsmiths, University of London)
Chair: Michael Guggenheim (Goldsmiths, University of London)
Bowland North Seminar Room 23: **single session**

C07 Intersections and meetings between practice theory and STS

Convenors: Stanley Blue (Lancaster University); Torik Holmes (Lancaster University); Elizabeth Shove (Lancaster University); Allison Hui (Lancaster University)
Cavendish Colloquim (Faraday Complex): **single session**

Materialising demand: transforming resources and services. *Jenny Rinkinen (Lancaster University); Elizabeth Shove (Lancaster University).*

The urban food-water-energy nexus as an ecology of practices. *Ralitsa Hiteva (University of Sussex); Fiona Marshall (University of Sussex); Saurabh Arora (University of Sussex).*

Coordinating arrays of practice or managing intermittent oligoptica? Reflections from the intersection of households and home heating, STS and practice theory. *Allison Hui (Lancaster University).*

The texture of the terrain. *Stanley Blue (Lancaster University).*

C18 Open questions in STS and geoengineering

Convenors: Gabriel Dorthe (Institute for Advanced Sustainability Studies); Stefan Schäfer (Institute for Advanced Sustainability Studies)
Frankland Lecture Theatre (Faraday Complex): **second of two sessions**

Techno-fixes in theory and (political) practice: conditions and challenges for policy implementation. *Felix Schenuit (German Institute for International and Security Affairs); Oliver Geden (Max Planck Institute for Meteorology).*

Constitutional climates: solar geoengineering in the co-production of climate expertise and global order. *Stefan Schäfer (Institute for Advanced Sustainability Studies); Gabriel Dorthe (Institute for Advanced Sustainability Studies).*

C24 Caring, negotiating and tinkering for IT in/security

Convenors: Katharina Kinder-Kurlanda (GESIS Leibniz Institute for the Social Sciences); Estrid Sørensen (Ruhr-Universität Bochum); Laura Kocksch (Ruhr-University Bochum); Andreas Poller (Fraunhofer Institute for Secure Information Technology); Susann Wagenknecht (University of Siegen)
Bowland North Seminar Room 20: **second of two sessions**

Practicing a science of security. *Jonathan Spring (University College London).*

Troubling the ordering in cybersecurity research. *Katharina Kinder-Kurlanda (GESIS Leibniz Institute for the Social Sciences); Laura Kocksch (Ruhr-University Bochum); Estrid Sørensen (Ruhr-Universität Bochum).*

Panel discussion: researching IT security. *Laura Kocksch (Ruhr-University Bochum); Estrid Sørensen (Ruhr-Universität Bochum); Andreas Poller (Fraunhofer Institute for Secure Information Technology); Katharina Kinder-Kurlanda (GESIS Leibniz Institute for the Social Sciences); Susann Wagenknecht (University of Siegen).*

CW05 Technical difficulties: visualising knowledge and the transformation of academic conference presentations (Workshop)

Convenor: Tim Miller (Goldsmiths, University of London)
FASS Building Meeting Room 1: **single session**

D03 Contested gates -- epistemic and social implications of opening knowledge production and science communication

Convenors: Sascha Dickel (Johannes Gutenberg University); Andreas Wenninger (Technical University of Munich); Werner Reichmann (University of Konstanz)
Bowland Hall Main Room: **second of two sessions**

The role of research infrastructure formation strategies in opening and closing science. *Andrea Botero (University of Oulu); Helena Karasti (University of Oulu); Elena Parmiggiani (University of Oulu / Norwegian Uni. of Science and Technology); Karen S. Baker (University of Oulu/ University of Illinois at Urbana-Champaign).*

Valuing open science: the significance of openness between digital platformization and societal legitimation. *Clemens Bluemel.*

Inclusion into the communication system of science - self-archiving and the use of pre-prints in astronomy and mathematics. *Niels Taubert (Bielefeld University).*

E07 After data activism: reactions to civil society's engagement with data

Convenors: Guillén Torres (University of Amsterdam); Stefania Milan (University of Amsterdam)
Chair: Katja Mayer (Technical University of Munich)
Elizabeth Livingston Lecture Theatre (Bowland North): **second of two sessions**

Anticipating the big law: flows of personal data. *Katja Mayer (Technical University of Munich); Jürgen Pfeffer (Technical University of Munich).*

Can a state resist its citizens? On the ontological multiplicity of Open Government. *Guillén Torres (University of Amsterdam).*

Digital citizenship in the scoring society. *Arne Hintz.*

G02 From detachment to appropriation: performing commodification

Convenors: Saskia Brill (Rachel Carson Center); Veit Braun (Ludwig Maximilian University of Munich)
Chair: Alexander Dobeson (Uppsala University)
Bowland North Seminar Room 10: **second of two session**

De-cod-ing valuation experiments: the co-modification of seafood and consumers in experimental settings. *Béatrice Cointe (University of Oslo); Kristin Asdal (University of Oslo).*

From commercial commodity to matchless game fish: recommodifying Atlantic salmon in Eastern Canada. *Charles Mather (Memorial University).*

Between places and markets. How prices for carbon emissions emerge. *Saskia Brill (Rachel Carson Center).*

The political economy of transnational ova flows: Ukrainian ova market and its global connections. *Polina Vlasenko (Indiana University, Bloomington).*

G06 Integrity: personal virtue, remedy for fraud, object of governance?

Convenors: Sarah de Rijcke (Leiden University); Bart Penders (Maastricht University); Barend van der Meulen (Rathenau Instituut); Govert Valkenburg (Leiden University)
Bowland North Seminar Room 7: **second of two sessions**

Research integrity as translation work: assumptions and practices of authorship in nutrition science. *Bart Penders (Maastricht University).*

Too much, too soon? Emerging domains of science and the logic of reproducibility. *Peter Darch (University of Illinois at Urbana-Champaign).*

V07 Data infrastructures: practices and consequences

Chair: Mette Kragh-Furbo (Lancaster University)
FASS Building Meeting Room 2/3: **single session**

Knowing the whole: personal identification number as statistical infrastructure. *Baki Cakici (IT University of Copenhagen).*

The state of the future? E-stonia and the techno-utopian commodification of identity in the digital age. *Maximilian Curtis (University of Cambridge).*

From algorithmic cultures to machine learning and back. *Jonathan Roberge (National Institute of Scientific Research, Canada); Kevin Morin (National Institute of Scientific Research, Canada).*

V08 Exploring relations of authority

Chair: Lisa Wood (Lancaster University)
Marcus Merriman Lecture Theatre (Bowland North): **single session**

A relational analysis of contemporary planning practice. *Anna-Lisa Müller (University of Bremen).*

Organising unknowing? *Stephen Allen (University of Hull).*

Trade, war, law, and the creation of knowledge in early colonial Bombay. *Jessica Price (Cornell University).*

When tinkering goes wrong: innovating to care or caring to innovate? *Hannah Cowan (London School of Hygiene and Tropical Medicine).*

LIST OF PANELS

Encounters between people, things and environments

This stream has broad application in STS and contributions may focus on, for example, materialities, assemblages, the Anthropocene and changing climates, infrastructures in practice and the production and negotiation of risk.

A01 **Biosocial forms of living: imbricating technologies, social and medical knowledge**
Convenors: Yannis Papadaniel (University of Lausanne); Luca Chiapperino (University of Lausanne); Giada Danesi (University of Lausanne)
Cavendish Lecture Theatre (Faraday Complex): **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel aims at analysing biosocial engagements as practices materializing and giving sense to the entanglement of bodies and environments, by addressing one common question: how do technologies and experiences, biographies and biologies intertwine in the production of biosocial forms of living?

A02 **Predictive policing and the socio-technical government of risk**
Convenors: Simon Egbert (Universität Hamburg); Matthias Leese (ETH Zurich)
Welcome Centre Lecture Theatre 2: **Sat 28th July, 09:30-11:00, 11:30-13:00**

Predictive policing, the algorithmic construction of crime risk areas, has to be grasped as a socio-technical process. This implicates to carefully analyse the development and legitimisation processes of such technologies, as well as the practical effects of their utilisation.

A03 **The social life of smart homes**
Convenors: Stuart Reeves (University of Nottingham); Murray Goulden (University of Nottingham)
Faraday Lecture Theatre (Faraday Complex): **Sat 28th July, 09:30-11:00, 11:30-13:00**

In this session we explore the attempted domestication of Internet of Things technologies, and the interactional implications for members, materials, and the multinationals for whom the smart home offers a new platform to claim.

A04 **Involving compounds**
Convenors: Dimitris Papadopoulos (University of Leicester); Manuel Tironi (Pontificia Universidad Católica de Chile); Maria Puig de la Bellacasa (University of Leicester)
Bowland North Seminar Room 6: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

Inseparable from our late industrial present, involvements in, with and against compounds--biomedical substances, crafted materials, manufactured chemicals--are central to several modes of ecological damage, but also to the flourishing of alternative political solidarities and social projects.

A05 **Meetings of local knowledges: conflicts, complements, and reconfigurations**
Convenors: Linda Russell (Universidad Autónoma de Campeche); Nicole Klenk (University of Toronto); Andy Yuille (Lancaster University)
Bowland Lecture Theatre (Bowland Main): **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel investigates the processes of mobilization, translation and application that are implied in enabling different knowledges to meet and have effect in specific contexts, as traditional and other local knowledges are revalued in the face of challenges such as climate change.

A06 **Meeting (in) data**
Convenors: Tahani Nadim (Humboldt University Berlin); Antonia Walford (University College London/ University of Copenhagen)
Discussant: Jennifer Gabrys (Goldsmiths, University of London)
Bowland Lecture Theatre (Bowland Main): **Wed 25th July, 13:00-14:30, 15:00-16:30**

Digitisation and the extraction of data are assembling a powerful imaginary around the nature of data as the only workable form capable of telling what matters. This panel examines "data worldings" and the kinds of meetings that data and "the digital" hope to facilitate and strive to curtail.

A07 Techno-scientific expertise and geographical imaginaries in the making of new resource frontiers
Convenors: Alena Bleicher (Helmholtz Centre for Environmental Research GmbH - UFZ); Paul Gilbert (University of Sussex)
Discussant: Nigel Clark (Lancaster University)
Bowland North Seminar Room 2: **Thu 26th July, 09:00-10:30**

This panel invites contributions from scholars investigating the role that technical experts (e.g. geologists, chemical engineers, metallurgists, valuation consultants) and technologies play in opening up new frontiers for mineral extraction in the 'anthroposphere' and beyond.

A08 What do we still not know about the IPCC?
Convenors: Jasmine Livingston (Lund University); Tommaso Venturini (École Normale Supérieure Lyon); Kari De Pryck (University of Geneva)
Cavendish Lecture Theatre (Faraday Complex): **Thu 26th July, 11:00-12:30, 14:00-15:30**

The panel explores new research directions on the IPCC, focussing on how, facilitating the meeting between the scientific and political debates, the organisation allows various political actors to play an active role in the consolidation of scientific consensus: 'politics is science by other means'.

A09 Encounters with and for circular economy initiatives
Convenors: Helena Valve (Finnish Environment Institute); Maria Akerman (VTT Technical Research Centre of Finland)
Chair: David Lazarevic (Finnish Enviornment Institute)
Bowland North Seminar Room 2: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

Circular economy is envisaged as an alternative to the 'take-make-dispose' economic model. This panel invites STS-informed analyses throwing light on the realism of, and realities evolving along, circular economy initiatives. It welcomes papers focusing e.g. on practices of resource-making.

A10 Commoning the smart city
Convenors: Nicole Foster (University of the West of England); .ginger .coons
Bowland North Seminar Room 2: **Fri 27th July, 16:00-17:30**

Smart cities construct inhabitants as consumers. They aggregate and exploit individual preferences and behaviors to create rational, efficient cities. Hackability could subvert 'smart' initiatives. This panel explores tensions between the smart and the hackable in the context of the digital commons.

A11 Encountering energy in systems and everyday spaces
Convenors: Eefje Cuppen (Delft University of Technology); Karen Henwood (Cardiff University); Nick Pidgeon (Cardiff University)
Faraday Lecture Theatre (Faraday Complex): **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

The panel will debate everyday, emplaced encounters with energy systems & technologies undergoing a period of rapid transition, the environmental risk issues & uncertainties they raise for citizens, scientists and society, and engage with different levels of governing energy system transformation.

A12 **Meet our chemicals: ubiquitous presence, selective views**
Convenors: Stefan Böschen (RWTH Aachen University); Nona Schulte-Römer (Helmholtz-Centre for Environmental Research GmbH UFZ)
Faraday Lecture Theatre (Faraday Complex): **Fri 27th July, 09:00-10:30, 11:00-12:30**

Since industrialization, artificially produced chemicals have become an inextricable part of our society – whether we are aware of it or not. They help and harm us, they make life easier for some and more difficult for others. This panel will explore issues of chemicals design, use and regulation.

A13 **Of other landscapes**
Convenors: Endre Danyi (Goethe University Frankfurt); Michaela Spencer (Charles Darwin University)
Bowland North Seminar Room 6: **Sat 28th July, 09:30-11:00, 11:30-13:00**

We invite contributions that engage with situations where worlds meet, including worlds configured within differing practices of Indigenous and Western knowledge traditions, practices of governance and democracy, and other means of knowing and relating people and place.

A14 **In other words: caring for water**
Convenors: Annemarie Mol (University of Amsterdam); Marianne de Laet (Harvey Mudd College)
Faraday Lecture Theatre (Faraday Complex): **Fri 27th July, 14:00-15:30, 16:00-17:30**

Based on water-related fieldwork in different regions and different languages, this panel addresses issues to do with the non-translatability of terms used in the care of and care for water – starting with different language variants of the word 'care,' itself.

A15 **Intimate entanglements in science and technology**
Convenors: Daniel Lopez Gomez (Universitat Oberta de Catalunya); Joanna Latimer (University of York)
Bowland North Seminar Room 6: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel aims to open up the value of intimacy as a quality of socio-material relations in knowledge-making and communities of practice. The focus is on the attachments and detachments that appear crucial to understanding affective relations and ecologies inside and beyond science and technology.

A16 **Infrastructures of the Anthropocene**
Convenors: Martin Mahony (University of East Anglia); Martin Skrydstrup (Copenhagen Business School)
Bowland North Seminar Room 2: **Wed 25th July, 13:00-14:30, 15:00-16:30**

How can we speak of the politics of the Anthropocene? Revisiting this question raised by postcolonial theorist Chakrabarty (2012), this panel aims to address it by engaging with the history and politics of the infrastructures which have made knowledge of the Anthropocene possible.

A17 Making Outer Space
Convenors: Valentina Marcheselli (University of Edinburgh); Deborah Scott (University of Edinburgh)
Bowland North Seminar Room 23: **Thu 26th July, 09:00-10:30, 11:00-12:30**

This panel aims to engage with the complex social dynamics through which Earth and Space are defined, enacted, and deployed in discourse and practice.

A18 Uncertain futures: green alternatives and STS interventions
Convenors: Luigi Pellizzoni (University of Pisa); Les Levidow (Open University)
Discussant: Igmar Lippert (Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science)
Bowland Lecture Theatre (Bowland Main): **Sat 28th July, 09:30-11:00, 11:30-13:00**

Through this panel we aim to advance STS theoretical and methodological interventions into both reflecting on and making of 'green futures'.

A19 Sensing security. Sensors and the making of transnational security infrastructures
Convenors: Nikolaus Pöchhacker (Technical University of Munich); Nina Witjes (Technical University of Munich)
Discussant: Jan-Hendrik Passoth (Technical University of Munich)
Bowland Lecture Theatre (Bowland Main): **Thu 26th July, 14:00-15:30**

In our session we want to explore the role of sensors and data infrastructures in the construction and interpretation of changing local and global socio-technical environments related to the interplay of sensing and (algorithmic) sense-making in various security domains.

A20 Chemical entanglements: exploring ontologies at the atomic level
Convenors: Emma Cardwell (Glasgow University); Claire Waterton (Lancaster University)
Bowland North Seminar Room 6: **Wed 25th July, 13:00-14:30, 15:00-16:30**

How can we meaningfully engage with the chemical in a material world? This session aims to account for the political, ethical, experiential and performative in chemical entanglements. Papers explore: chemical ontologies; global metabolisms of chemical elements; chemical lives; chemical disruptions.

A21 Outward and inward encounters: STS meets Outer Space
Convenors: Richard Tutton (Lancaster University); Franc Mali (Ljubljana University); Matjaz Vidmar (University of Edinburgh)
Bowland North Seminar Room 6: **Fri 27th July, 16:00-17:30**

With scientifically, technologically and imaginatively reaching into Outer Space, boundaries are crossed, cultures change and new paradigms emerge through "outward encounters" with the perceived "other" and "inward encounters" with new perspectives on, and roles for, ourselves and our environment.

A22 Farming data – collaborations on site
Convenors: Christine Hanke (University of Bayreuth); Ulrike Beisel (University of Bayreuth); Susanne Bauer (University of Oslo)
Discussant: Tahani Nadim (Museum für Naturkunde and Humboldt University of Berlin)
Bowland Lecture Theatre (Bowland Main): **Thu 26th July, 09:00-10:30, 11:00-12:30**

Data centres form an integral part of current global information infrastructures. The data centre is where 'the cloud' becomes experiential. The panel addresses novel methodologies for researching infrastructures and materialities from within STS, anthropology, sociology and media studies.

A23 The politics of negative emissions
Convenors: Nils Markusson (Lancaster University); Duncan McLaren (Lancaster University); Rob Bellamy (University of Oxford)
Welcome Centre Lecture Theatre 2: **Wed 25th July, 13:00-14:30, 15:00-16:30**

The success of the Paris Agreement on climate change may rely on the extensive deployment of controversial ideas for removing greenhouse gases from the atmosphere. This panel examines the politics of these large-scale 'negative emissions' technologies and the roles for STS scholars in studying them.

A24 Disasters and participation: inventive/disruptive encounters
Convenors: Maggie Mort (Lancaster University); Israel Rodriguez-Giralt (Universitat Oberta de Catalunya)
Faraday Lecture Theatre (Faraday Complex): **Wed 25th July, 13:00-14:30, 15:00-16:30**

The fields of disaster management/risk reduction value participation highly. However, as complex entanglements of social, cultural & material dimensions, disasters may also challenge, contest or redefine the idea of participation. We will focus on the recursive, inventive and sometimes disruptive, interactions between disaster and participation.

A25 Trouble swallowing? Food, technoscience and publics
Convenors: Laurie Waller (Technical University of Munich); Mascha Gugganig (Technical University of Munich)
Cavendish Lecture Theatre (Faraday Complex): **Sat 28th July, 09:30-11:00**

This track explores how food mediates public engagement with sociotechnical issues, and in turn how public engagement shapes what food has come to be. We ask how policy agendas seek to 'democratize' food systems, while 'disruptive' innovations may spark new forms of public engagement.

A26 More-than-human mobilities
Convenors: Jen Southern (Lancaster University); Samuel Thulin (Concordia University); Monika Buscher (Lancaster University)
Cavendish Lecture Theatre (Faraday Complex): **Wed 25th July, 13:00-14:30, 15:00-16:30**

This panel will explore STS and mobilities approaches to more-than-human assemblages of actors that meet on the move. We are particularly interested in papers that investigate multi-scalar resonances, consonances and dissonances in more-than-human assemblages by tuning into them from different perspectives.

A27 The power of correlation and the promises of auto-management. On the epistemological and societal dimension of data-based algorithms
Convenors: Jutta Weber (University Paderborn); Gabriele Gramelsberger (RWTH Aachen University)
Welcome Centre Lecture Theatre 2: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

We will analyze the epistemological and ontological groundings of data-based learning algorithms as well as reflect how the logic of data-driven algorithms and the increasing automation of decision-making corresponds to our societal condition.

A28 Socio-technical encounters in the city: urban spaces, data infrastructures and new modes of civic engagement
Convenors: Juliane Jarke (University of Bremen); Anna-Lisa Müller (University of Bremen)
Cavendish Lecture Theatre (Faraday Complex): **Fri 27th July, 16:00-17:30**

With the increased availability of digital technologies that produce data on cities and city life, modes of moving and acting in cities change; new modes of civic engagement emerge. This panel explores the creative and at times disruptive appropriation of urban public spaces.

A29 Toxicity in the 21st century
Convenors: Tom Widger (Durham University); Annamaria Carusi (University of Sheffield)
Bowland North Seminar Room 2: **Sat 28th July, 09:30-11:00, 11:30-13:00**

Toxicology has a long history. With unprecedented levels and combinations of chemicals in bodies and environments, and high industrial and political stakes in this domain, this panel gathers critiques of traditional approaches to managing toxins, and the articulation of alternative approaches.

A30 Meeting alternative energetic materialities
Convenor: Dagmar Lorenz-Meyer (Charles University)
Bowland North Seminar Room 2: **Thu 26th July, 11:00-12:30**

This panel invites exploration of engagements with alternative energetic materialities in the encounters of technological, informational & (more-than-) human bodies. What affects, values, socialities and imaginations are generated and what approaches are conducive for researching and disseminating them?

AW01 Encounter, create and eat the world: a meal (Workshop)
Convenors: Michael Guggenheim (Goldsmiths, University of London); Laura Cuch (University College London)
LICA C01 Design Studio: **Thu 26th July, 12:30-14:00**

In this workshop we will do STS by cooking a lunch. Each participant brings two edible ingredients that represent an element of interacting with the world for her. We will conduct a series of exercises to learn about these ingredients, their relationship to us and the world, and how to cook them. Pre-registration required.

AW02 **Infrastructuring in STS: what does infrastructuring look like? When does it look like that? (Workshop)**
Convenors: Hanne Cecilie Geirbo (University of Oslo); Helena Karasti (University of Oulu); Andrea Botero (University of Oulu); Joanna Saad-Sulonen (IT University of Copenhagen); Sanna Marttila (IT University of Copenhagen)
Chair: Karen Baker (University of Oulu; UIUC)
Discussant: Elena Parmiggiani (Norwegian University of Science and Technology)
Welcome Centre Lecture Theatre 2: **Thu 26th July, 11:00-12:30, 14:00-15:30**

This workshop takes stock of empirical insights and conceptual developments around the concept of infrastructure and infrastructuring. We will collectively and critically map, disentangle assumptions, identify blind spots and chart research opportunities. Pre-registration required.

Art and craft of joining and keeping things together

This stream invites a focus on doing, embodied knowledge and skills and the performativity of discourse in making and sustaining alliances. Work in this stream may therefore include: makers; engineering cultures, learning and collaborative work, and mending and repair.

B01 **Joining together cells and tissues: novel in vitro technologies in context**
Convenors: Neil Stephens (Brunel University London); Niki Vermeulen (University of Edinburgh)
Welcome Centre Lecture Theatre 3: **Thu 26th July, 11:00-12:30, 14:00-15:30**

We discuss the communities, meeting spaces, policies, promises, and challenges for novel technologies working with cells and tissues outside the body, including (but not limited to) 3D bioprinting, upscale, synthetic biology, organogenesis, biobanking, and forms of gene editing operating in vitro.

B03 **Open design & manufacturing in the platform economy**
Convenor: Raúl Tabarés (Tecnalia)
Discussants: Vasilis Niaros (P2P Foundation), Massimo Menichelli (Institute for Advanced Architecture of Catalonia, Fab City Research Lab)
Bowland North Seminar Room 23: **Fri 27th July, 16:00-17:30**

Open design and manufacturing paradigms have been recently embraced for promoting technological appropriation as well as enablers for transforming traditional fabrication. In this panel we explore the role that these concepts can have in a post-industrial society.

B05 **Crafting attachments, making worlds**
Convenors: Annelieke Driessen (University of Amsterdam); Else Vogel (Linköping University); Justine Laurent (University of Amsterdam)
Discussant: Marianne de Laet (Harvey Mudd College)
Bowland North Seminar Room 23: **Wed 25th July, 13:00-14:30, 15:00-16:30**

This panel seeks to explore values, tastes and passions as among "those things that hold us together" (Hennion, 2007). It gathers empirical studies of practices and 'dispositifs' through which attachments to diverse 'goods' are crafted, including researchers' attachments to their fields of study.

B06 **Collaboration in/with "open labs": studying the objects of boundary-making and crossing**
Convenors: Morgan Meyer (MINES ParisTech); Evelyne Lhoste (Laboratoire Interdisciplinaire Sciences Innovations Sociétés); Luis Felipe Rosado Murillo (CNAM/IFRIS)
Bowland North Seminar Room 23: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel examines the materialities and technical objects of open laboratories to analyse how boundaries are established and crossed through collaborative production. We focus on the dynamics of emergence and institutionalization "from below".

B07 **Situating designs**
Convenors: Yana Boeva (York University); Peter Fuzesi (Lancaster University)
Discussants: Alex Wilkie (Goldsmiths, University of London), Daniela Rosner (University of Washington)
Cavendish Colloquim (Faraday Complex): **Thu 26th July, 11:00-12:30, 14:00-15:30**

This panel invites inquiries into the situatedness of design practices and artefacts. We welcome theoretical and empirical studies into the mutual configuration of technical and design practices with their geographical, organisational and material worlds and their implicit value claims.

B08 **From A to B: orders and disorders of routing and navigation**
Convenors: Adrian Mackenzie (Lancaster University); Paula Bialski (Leuphana University Lüneburg)
Welcome Centre Lecture Theatre 3: **Sat 28th July, 09:30-11:00, 11:30-13:00**

How does an assemblage of people and the systems they build destine humans and things along some routes and not others? Inviting contributions that combine STS, media and software studies, this panel addresses contemporary practices, knowledge, devices and systems of routing and navigation.

B09 **Feminist figures: crafting intersections in theory and practice**
Convenors: Kate O'Riordan (University of Sussex); Joan Haran (Cardiff University)
Welcome Centre Lecture Theatre 3: **Wed 25th July, 13:00-14:30, 15:00-16:30; Thu 26th July 09:00-10:30**

This panel engages with feminist figures in two senses: the figurations that feminists have crafted to provoke innovative engagements with technoscience and the widely cited feminist figures whose work gathers up their readers and audiences in collaborative projects of theory-making and practice.

B11 **Descriptive meetings: description as site, ground and point of politics**
Convenors: Ciara Kierans (University of Liverpool); Nicole Vitellone (University of Liverpool); Michael Mair (University of Liverpool)
Welcome Centre Lecture Theatre 3: **Fri 27th July, 09:00-10:30, 11:00-12:30**

This panel considers the politics of descriptive meetings as an empirical base which operates as a practical concern and as the intellectual ground for drawing together different disciplinary contributions. We ask, how precisely do descriptions express meetings, for whom and under what conditions?

BW01 **A pop-up inventory of STS researchers' roles and interventions (Workshop)**
Convenors: Judith Igelsböck (Technical University of Munich); Hannah Varga (Technical University of Munich); Yutaka Yoshinaka (Technical University of Denmark); Denisa Kera
Discussant: Jane Calvert (University of Edinburgh)
Bowland North Seminar Room 23: **Thu 26th July, 14:00-15:30**

The workshop invites participants to use the conference as an empirical site to reflect on the roles STS researchers play and the figures they play with. It creates a collective 'pop-up inventory' - a material display at the conference – to provoke debates about the contemporary STS researcher. Pre-registration required.

BW02 **(Better) Visualisations for keeping things together & apart (Workshop)**
Convenor: Alex Wilkie (Goldsmiths, University of London)
Chair: Michael Guggenheim (Goldsmiths, University of London)
Bowland North Seminar Room 23: **Sat 28th July, 11:30-13:00**

How can we advance visualisation practices in STS? This workshop uses participants' visualizations, as the subject of collaborative analysis and 'reworking' in order to explore how they re-present, enact and propose worlds, and, in doing so, how they create arraignments, divisions and collectives. Pre-registration required.

Confluence, collaboration and intersection

This stream invites exploration of how alignments and intersections occur. This might examine how 'interests' take shape, evolve, conjoin through innovation networks, technology adoption, infrastructures and standardisations; the dynamics of how social practices evolve, intersect and re-form over time; or the making of new alliances and forms of inclusive and creative collaboration.

C01 Genetic technologies: intersecting criminal investigation, disaster victim identification and commercial uses
Convenors: Rafaela Granja (University of Minho); Victor Toom (Goethe University)
Bowland North Seminar Room 20: **Fri 27th July, 16:00-17:30**

We aim to explore the intersections between the use of genetic technologies in criminal investigation, disaster victim identification and commercial uses. Our goal is to stimulate a debate on the mutable social, political and commercial meanings attributed to genetic technologies.

C02 A panel on panels: studying academic conference practice
Convenors: Geert Somsen (Maastricht University); Alexandra Supper (Maastricht University)
Frankland Lecture Theatre (Faraday Complex): **Thu 26th July, 14:00-15:30**

This panel draws attention to conferences as manifestations of community and sociability. We welcome ethnographic and cultural-historical research that helps to understand the functions of conferences, especially in relation to issues of rituals, performances, spatial configurations and new media.

C03 Empirical bioethics in STS. Making science, technology and society in research and deliberative spaces
Convenors: Matthias Wienroth (Newcastle University); Jackie Leach Scully (Newcastle University); Madeleine Murtagh (Newcastle University); Ilke Turkmendag (Newcastle University)
Frankland Lecture Theatre (Faraday Complex): **Thu 26th July, 09:00-10:30, 11:00-12:30**

This panel attends to multi-perspectival discursive spaces, specifically those engaging with ethically problematic life science technologies. Papers and discussions will explore the contributions of empirical bioethics to STS work in such spaces for research and deliberation.

C04 Productive frictions: co-laboration and confluence in the work of new alliances
Convenors: Christine Schmid (Humboldt University of Berlin); Jonna Josties (Humboldt-Universität zu Berlin); Lauren Cubellis (Washington University in St. Louis)
Discussants: Jeannette Pols (University of Amsterdam), Joerg Niewoehner (Humboldt-Universität zu Berlin)
Frankland Lecture Theatre (Faraday Complex): **Wed 25th July, 13:00-14:30, 15:00-16:30**

Productive frictions are moments when unfamiliar perspectives are brought together for innovative recombination and shared epistemic work. In these spaces, we ask: what do we as ethnographers contribute, what do we learn, and what sorts of evaluations must we make at sites of emergent recombination?

C05 Science, innovation and inequality: part of the solution or the problem?
Convenors: Koen Beumer (Utrecht University); Melanie Smallman (University College London)
Frankland Colloquium (Faraday Complex): **Fri 27th July, 14:00-15:30, 16:00-17:30**

This session explores the intersection between science, innovation & economic inequality from an STS perspective. In particular, whether recent technological developments are reinforcing inequalities or creating new ones, and how concepts of equity are handled within science & innovation policy.

C07 Intersections and meetings between practice theory and STS
Convenors: Stanley Blue (Lancaster University); Torik Holmes (Lancaster University); Elizabeth Shove (Lancaster University); Allison Hui (Lancaster University)
Cavendish Colloquim (Faraday Complex): **Sat 28th July, 11:30-13:00**

This panel explores understandings and uses of the notion of practice within the field of Science and Technology Studies. Its purpose is to examine both confluences and challenges arising from working at the intersection of STS scholarship and social theories of practice.

C09 Bio-objectification: meetings and new thresholds across the bio-social
Convenors: Bettina Bock von Wülfingen (Humboldt-Universität zu Berlin); Conor Douglas (Maastricht University); Andrew Webster (University of York)
Cavendish Colloquim (Faraday Complex): **Fri 27th July, 14:00-15:30, 16:00-17:30**

The session asks how bio-objectification and bio-identification are generative of different meetings and thresholds: confluences as bio-identities are disturbed and rebuilt anew, how collaborative processes across socio-technologies emerge and new socio-biological intersections are created.

C10 Technology, infrastructure, and the smartification of cities
Convenors: Davide Orsini (Mississippi State University); Regev Nathansohn (University of Haifa)
Frankland Colloquium (Faraday Complex): **Sat 28th July, 09:30-11:00**

What are Smart Cities? This panel seeks contributions that explore what is involved in processes of smartification, and examine what kind of infrastructural work is required to enact and harmonize potentially diverging technopolitical goals in the designs and everyday life of Smart Cities.

C11 Scientific meetings across disciplinary boundaries
Convenors: Miles MacLeod (University of Twente); Johan Munck af Rosenschöld (University of Helsinki)
Frankland Colloquium (Faraday Complex): **Wed 25th July, 13:00-14:30, 15:00-16:30**

The aim of this panel is to explore the concept of 'meeting' in interdisciplinary endeavors. By employing the concept, the panel explores 'how' interdisciplinarity is arranged and practiced, 'who' participates in such activities, and 'what' are the outcomes of interdisciplinary collaborations.

C12 Colliding theories, cultures, and futures. STS view(s) beyond the horizon. Or: STS diaspora
Convenors: Melike Sahinol (Orient-Institute Istanbul); Harun Kaygan (Middle East Technical University); Cansu Guner-Birdal (Technical University of Munich); Arsev Aydinoglu (Middle East Technical University)
Bowland North Seminar Room 20: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

We invite contributions that focus on practices of Science and Technology in Society in different cultural, historical and theoretical settings (especially outside of the US and Europe), shedding light on heterogeneous ways S&T can be studied in Societies and be (per)formed now and in the future.

C13 Assembling the smart city: exploring the contours of social difference
Convenors: Alan-Miguel Valdez (Open University); Matthew Cook (Open University); Nick Bingham (Open University)
FASS Building Meeting Room 1: **Thu 26th July, 09:00-10:30, 11:00-12:30**

Smart' cities are being figured as meeting places where multifarious things come together gathered by a vision of digital-led urban transformation. This panel invites contributions that follow some aspect of this to better understand how Smart participates in patterning social difference.

C14 Smugglers, idiots and loyal cheats: situated intervention as method out of control
Convenors: Martina Klausner (Humboldt-University); Teun Zuiderent-Jerak (Linköping University)
Chair: Judith Igelsböck (Technical University of Munich)
FASS Building Meeting Room 2/3: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

What happens when we commit to intervening in the practices we study as a form of STS scholarship? Avoiding the polarized positions of promise and critique of intervention, this panel empricises what happens when STS scholars get involved in experimental, uncontrollable processes of worldmaking.

C15 When responsible innovation meets economic crisis: considering the possibilities of 'responsible stagnation'
Convenors: Stevienna de Saille (University of Sheffield); Michiel Van Oudheusden (KU Leuven)
Welcome Centre Lecture Theatre 3: **Fri 27th July, 16:00-17:30**

This panel asks how STS can combine with heterodox economics to provide new directions for Responsible Innovation. It uses Responsible Stagnation as a lens through which to consider questions relative to the governance of 'innovation' in a world of finite resources and fragile ecosystems.

C16 Data worlds? Public imagination and public experimentation with data infrastructures
Convenors: Tommaso Venturini (École Normale Supérieure Lyon); Carolin Gerlitz (University of Amsterdam); Jonathan Gray (King's College London); Noortje Marres (University of Warwick)
Frankland Lecture Theatre (Faraday Complex): **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30, 16:00-17:30**

How do data infrastructures distribute participation across society and culture? Do they participate in world-making, and if so how? Could they be utilised not just to close discussions, but also to open up public debate, imagination and experimentation?

C17 Moving together: problematizing the makings of togetherness
Convenors: Lisa Wood (Lancaster University); Sung-Yueh Perng (Tunghai University)
Cavendish Colloquim (Faraday Complex): **Wed 25th July, 13:00-14:30, 15:00-16:30**

This panel asks how bringing things together produces utopian and dystopian togetherness. We consider both lively and desirable 'togetherness' with darker practices and consequences, such as exclusion prejudice and unwilling disassociation.

C18 Open questions in STS and geoengineering
Convenors: Gabriel Dorthe (Institute for Advanced Sustainability Studies); Stefan Schäfer (Institute for Advanced Sustainability Studies)
Frankland Lecture Theatre (Faraday Complex): **Sat 28th July, 09:30-11:00, 11:30-13:00**

A strong body of STS scholarship has begun to question the speculative and controversial proposal that geoengineering Earth's climate might be a good idea. This panel aims at exploring areas of inquiry that STS is yet to tackle.

C19 Mainstreaming zero carbon buildings in Europe?
Convenors: Michael Ornetzeder (Austrian Academy of Sciences); Thomas Berker (Norwegian University of Science and Technology); Harald Rohracher (Linköping University)
FASS Building Meeting Room 1: **Wed 25th July, 13:00-14:30, 15:00-16:30**

Creating zero carbon buildings has moved to the centre stages of political ambitions within contemporary sustainability policies. For this panel we aim to gather national case studies analysing recent and on-going efforts to eliminate carbon emissions related to buildings from an STS perspective.

C20 Software & organisation
Convenors: Armin Beverungen (University of Siegen); Lisa Conrad (Leuphana University Lüneburg); Paula Bialski (Leuphana University Lüneburg)
Bowland Hall Main Room: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel explores the intricate relationship between software and organisation. Making use of the different meanings of the term "organization" (formal, emergent, social) it invites research on a variety of phenomena joined by a focus on the entanglements of software and organization.

C21 Co-creation of legitimacy, legitimacy of co-creation - double remedy or double crisis?
Convenors: Jeremias Herberg (Institute for Advanced Sustainability Studies); Giulia Molinengo (Institute for Advanced Sustainability Studies)
Bowland Hall Main Room: **Fri 27th July, 16:00-17:30**

In between academic and democratic institutions, cross-cutting collectives engage in 'co-creation': they collaboratively create shared problematics of politics and research. The panel discusses how co-creation is transforming or perpetuating legitimacy crises in academia and democracy.

C22 Citizen science: active citizenship vs. data commodification
Convenors: Alexandra Albert (University of Manchester); Katja Mayer (Technical University of Munich); Josep Perelló (Universitat de Barcelona); Martina Franzen (WZB Berlin Social Science Center)
FASS Building Meeting Room 2/3: **Fri 27th July, 09:00-10:30, 11:00-12:30**

There is a boom of initiatives calling for citizen involvement. Usually, participants are assigned a passive role by design, i.e. they are mainly confined to data gathering. We will explore barriers and opportunities for more systemic participation in research to create socially robust knowledge

C23 STS meet ICT: politics and the collaborative turn in STS
Convenors: Peter Lyle (Madeira Interactive Technologies Institute); Mariacristina Sciannamblo (Madeira Interactive Technologies Institute); Maurizio Teli (Madeira Interactive Technologies Institute); Christopher Csikszentmihalyi (Madeira Interactive Technologies Institute)
Bowland North Seminar Room 20: **Wed 25th July, 13:00-14:30, 15:00-16:30**

This panel wants to focus on the collaborative and committed orientation of STS by exploring its interplay with the broad field of Information and Communication Technology (ICT). This relationship entails different forms of meeting: disciplinary, epistemological, institutional, and local alliances.

C24 Caring, negotiating and tinkering for IT in/security
Convenors: Katharina Kinder-Kurlanda (GESIS Leibniz Institute for the Social Sciences); Estrid Sørensen (Ruhr-Universität Bochum); Laura Kocksch (Ruhr-University Bochum); Andreas Poller (Fraunhofer Institute for Secure Information Technology); Susann Wagenknecht (University of Siegen)
Bowland North Seminar Room 20: **Sat 28th July, 09:30-11:00, 11:30-13:00**

This panel discusses IT security as distributed and fragmented efforts to co- and re-configure control and authority together with uncertainties and threats. We explore IT in/security as a matter of careful tinkering and tense negotiations, with both temporal and moral dynamics.

C25 Global health collaborations and alignments
Convenors: Patricia Kingori (The Ethox Centre, University of Oxford); Nora Engel (Maastricht University); Salla Sariola (University of Turku); Catherine Montgomery (University of Oxford)
FASS Building Meeting Room 2/3: **Wed 25th July, 13:00-14:30, 15:00-16:30**

The panel asks how and with what implications collaboration and alignment is practiced across the multiple and varied actors, places and practices involved in global health interventions and technologies.

C26 Precision medicine at the crossroads: meeting the micro and macro, the molecular and social in new medical strategies
Convenors: Nadav Even Chorev (European Institute of Oncology); Ilaria Galasso (European Institute of Oncology)
Bowland North Seminar Room 20: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

Novel precision medicine frameworks are casted across many levels of analysis and intervention. On the micro end are molecular-guided personalized treatments, on the macro end are cohort studies on populations. We invite papers focusing on meetings and alignments of multiple medical configurations.

C27 **Recombining life: sociotechnical intersections in the making of genome editing**
Convenors: Michael Morrison (University of Oxford); Paul Martin (University of Sheffield)
Discussant: Ilke Turkmendag (Newcastle University)
Cavendish Colloquim (Faraday Complex): **Fri 27th July, 09:00-10:30, 11:00-12:30**

Genome editing is a powerful form of recombinant DNA technology. Its contemporary emergence critically depends on the alignment and intersection of a range of actors, resources and institutions. The panel will explore how these are being brought together in novel innovation and governance networks.

C28 **Meetings over and around food**
Convenors: Allison Loconto (Institut National de la Recherche Agronomique); Isabel Fletcher (University of Edinburgh); Katerina Psarikidou (Lancaster University); Kathryn Packer (City, University of London); Claire Marris (Centre for Food Policy)
Frankland Colloquium (Faraday Complex): **Thu 26th July, 11:00-12:30, 14:00-15:30; Fri 27th July, 09:00-10:30, 11:00-12:30**

This panel explores how food could bring together research across diverse themes, approaches and disciplines. We invite STS researchers working on any aspect of food and agriculture to come together to explore how we might create new alignments, intersections and networks in STS approaches to food.

CW01 **Recommended reading: opening up STS syllabi (Workshop)**
Convenors: Michaela Spencer (Charles Darwin University); Julien Mchardy (Martin Luther University)
FASS Building Meeting Room 1: **Thu 26th July, 14:00-15:30**

A workshop hosted by STS-focused Open Access book publisher Mattering Press. Inspired by 'hackfest' methods, this event supports the practical creation of shared and openly available STS syllabi while grappling with conceptual questions about what matters now for STS. Pre-registration required.

CW02 **The Museum of Random Memory: a meeting of research, activism, and critical pedagogy (Workshop)**
Convenors: Justin Lacko (Futuremaking Group); Ramona Dremljuga; Gabriel Pereira (Aarhus University); Annette Markham (Aarhus University); Christopher Bratton (Center for Arts, Design, and Social Research)
Chair: Deborah Lanzeni (RMIT)
Discussant: Dalida Maria Benfield (Centre for Arts, Design, & Social Research)
FASS Building Meeting Room 1: **Fri 27th July, 09:00-10:30**
FASS Building Meeting Room 2/3: **Fri 27th July, 11:00-12:30**

Using the prompt of memory, we offer a two part workshop+exhibition. Participants collaborate with uncurators to workshop an interactive 'Museum of Random Memory' and the group presents as an exhibition later in the conference to attendees.

CW03 **Assessing the confluence of digital and physical meetings: a toolbox for digital media research (Workshop)**
Convenor: Christian Ritter (Norwegian University of Science and Technology)
FASS Building Meeting Room 1: **Fri 27th July, 11:00-12:30**

This workshop invites STS scholars who seek to understand the digital transformations that meeting cultures of knowledge-intensive professionals undergo. Attendees will employ internet research techniques and develop methodologies for researching meetings within the physical-digital continuum. Pre-registration required.

CW04 **The European Research Council: funding science by and through scientists (Workshop)**
Convenor: Lionel Thelen (European Research Council)
Frankland Colloquium (Faraday Complex): **Thu 26th July, 09:00-10:30**

For more than 10 years now the ERC (European Research Council) is founding promising and/or top-notch principal investigators in all fields of Science. This workshop aims to allow STS scholars and students to get to know better this funding body, its schemes and opportunities for researchers. Pre-registration required.

CW05 **Technical difficulties: visualising knowledge and the transformation of academic conference presentations (Workshop)**
Convenor: Tim Miller (Goldsmiths, University of London)
FASS Building Meeting Room 1: **Sat 28th July, 11:30-13:00**

The aim of this workshop is to explore the prodigious role of Microsoft PowerPoint slideware software in academic presentations. Through exploring conference participants presentations, alternative forms and methods of presenting are explored and discussed within a workshop. Pre-registration required.

Conflict, dissolution, contest

Meetings may be occasions where differences are aired, contested, bolstered or dissolved. This stream may include studies of controversy, 'scandal' and public dissent, organisational failure, partings, boundary making, and hierarchies.

D01 **Politicizing futures. When conflicting visions meet**
Convenors: Andreas Lösch (Karlsruhe Institute of Technology); Alexandra Hausstein (Karlsruhe Institute of Technology); Christoph Schneider (Technical University of Munich); Ulrich Ufer (Karlsruhe Institute of Technology)
Elizabeth Livingston Lecture Theatre (Bowland North): **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30, 16:00-17:30**

Diverging visions of sociotechnical futures claim to give answers to problems posed by societal crises. This panel will discuss power dimensions of spaces where competing visions meet and concurrent imaginaries of sociotechnical futures clash. How do conflicting visions politicize the future?

D02 Challenging formal arrangements and decision-making in the energy sector
Convenors: Olivier Ejderyan (ETH Zurich); Shannon Spruit (Delft University of Technology)
Bowland Hall Main Room: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel seeks to discuss on what grounds and how formal decision-making processes about energy projects and energy infrastructures get contested. It investigates how such contestations and their responses contribute to reconfiguring traditional conceptions of formal and informal decision-making.

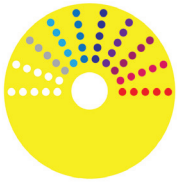
D03 Contested gates -- epistemic and social implications of opening knowledge production and science communication
Convenors: Sascha Dickel (Johannes Gutenberg University); Andreas Wenninger (Technical University of Munich); Werner Reichmann (University of Konstanz)
Bowland Hall Main Room: **Sat 28th July, 09:30-11:00, 11:30-13:00**

This panel discusses the concept of 'open science' as a contested concept and fragile practice. It analyzes the epistemic, social and cultural implications of open and closed scientific practices, communities, and processes. Therefore, it focuses on the actual gatekeeping within science.

D04 Outlaw innovation and the invention of the outlaw
Convenors: Maxigas . (Lancaster University); Johan Soderberg (Göteborg University)
Bowland Hall Main Room: **Wed 25th July, 15:00-16:30**

The panel investigates innovation processes driven by antagonistic relations between actors on both sides of the law. Three empirical fields exemplifying this dynamic are the surge of legal highs, information security, and crypto-currencies. Other case studies of outlaw innovation are also welcomed.

Assembly, silence, dissent



Meetings may be thought of as spaces where legal, medical and/or environmental matters of concern are worked out, a place for convening publics and professionals. Contributions to this stream could explore how technologies and devices of governance assemble and sometimes silence different entities, recognising some knowledges, marginalising others, and producing unequal conditions of speech.

E01 Publics shaped and enacted by surveillance, border and post-crisis management technologies: encountering "phantom publics", "non-publics" and "counter publics"
Convenors: Vasilis Galis (IT University of Copenhagen); Nina Amelung (University of Minho)
Marcus Merriman Lecture Theatre (Bowland North): **Sat 28th July, 09:30-11:00**

In this panel we ask what publics are shaped and enacted by national and transnational surveillance, border and post-crisis management technologies and how can we study them by mobilizing the conceptual and methodological repertoire of STS.

E02 The European Other as site of institutional experiment. Articulating friction in infrastructures for processing alterity
Convenors: Melpomeni Antonakaki (Technical University of Munich); Annalisa Pelizza (University of Twente)
Discussants: Anne-Marie Fortier (Lancaster University), Lucy Suchman (Lancaster University)
Bowland North Seminar Room 7: **Fri 27th July, 14:00-15:30, 16:00-17:30**

This panel seeks to investigate the frictions arising between established institutional and emerging knowledge infrastructures in the management of the "European Other". We ask how such infrastructures constitute experiments in enacting individuals and institutions.

E03 Software sorted subjectivities
Convenors: Baki Cakici (IT University of Copenhagen); Marisa Cohn (IT University of Copenhagen)
Discussant: Adrian Mackenzie (Lancaster University)
Marcus Merriman Lecture Theatre (Bowland North): **Fri 27th July, 16:00-17:30**

Software as a method acts as an epistemic instrument for knowing subjects and enacts rationalities for governing. As software enter new domains, what forms of sorting do they bring, and how do they act on subjects? We seek to examine software as method through ethnographic/historical case studies.

E04 Meeting the visual
Convenors: Dorothea Born (University of Vienna); Regula Valérie Burri (HafenCity University Hamburg)
Bowland North Seminar Room 7: **Fri 27th July, 09:00-10:30, 11:00-12:30**

What is the role of the visual in meetings and what meets in visuals? What matters of concern, realities, and practices of looking are assembled through visuals? What meeting spaces are provided in visuals, and who/what is silenced? How are discourses of power enforced or contested through visuals?

E05 Assembly, silence and dissent in the design and use of gerontechnologies
Convenors: Daniel Lopez Gomez (Universitat Oberta de Catalunya); Alexander Peine (Utrecht University); Louis Neven (Avans University of Applied Sciences)
Marcus Merriman Lecture Theatre (Bowland North): **Thu 26th July, 11:00-12:30, 14:00-15:30**

This panel brings together contributions at the intersection of STS, social gerontology and gerontechnology with the aim of discussing the assemblages, silencing and dissent which is part and parcel of the design and use of gerontechnologies.

E06 The room where it happens: inclusion, exclusion and power in STS research and practice
Convenors: Katharine Howell (Lancaster University); Craig Jones (Lancaster University)
Marcus Merriman Lecture Theatre (Bowland North): **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

Who gets to be in the room where it happens? We invite proposals for papers exploring the politics of meetings within STS research and practice: intersectional power dynamics within or beyond meeting spaces, inclusion/exclusion, silence/voice, and how meetings are recorded, reported and represented.

E07 **After data activism: reactions to civil society's engagement with data**
Convenors: Guillén Torres (University of Amsterdam); Stefania Milan (University of Amsterdam)
Chair: Katja Mayer (Technical University of Munich)
Elizabeth Livingston Lecture Theatre (Bowland North): **Sat 28th July, 09:30-11:00, 11:30-13:00**

This panel focuses on data practices that hinder rather than foster civil society's political engagement. We invite you to discuss how data governance, data science and social technologies are co-producing asymmetries of power.

E08 **Topologies of race: bringing a touchy object in STS**
Convenors: Lisette Jong (University of Amsterdam); Amade M'charek (University of Amsterdam)
Elizabeth Livingston Lecture Theatre (Bowland North): **Wed 25th July, 13:00-14:30, 15:00-16:30**

Can STS be touched by race? Is it capable of taking an unruly yet utterly political object onboard? And to what effect? The aim is of this panel to bring into conversation various practices in which race is shaped and made relevant and to explore how race is affecting STS, its methods and concepts.

E09 **Experiments in democracy**
Convenors: Jason Chilvers (University of East Anglia); Helen Pallett (University of East Anglia)
Elizabeth Livingston Lecture Theatre (Bowland North): **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

STS scholarship has recently turned to consider democracy as an object of study and experimentation in itself. This panel brings together studies of democratic experiments in the making and interventionist work that takes a deliberately experimental approach to creating new forms of democracy.

E10 **Geographies of knowledge production and legacy of postsocialist technoscience**
Convenors: Krzysztof Abriszewski (Nicolaus Copernicus University); Andrzej Wojciech Nowak (Adam Mickiewicz University); Marcin Zaród (Kozminski University)
Marcus Merriman Lecture Theatre (Bowland North): **Wed 25th July, 13:00-14:30, 15:00-16:30**

The aim of the panel is to address the problem of political entanglements both of technosciences and STS today by taking into account geographies of knowledge production, role of the Second World and presence/absence of political utopias (socialist, communist, others).

Discovery, discussion and decision

This stream offers a location for studies that explore historical and contemporary 'moments' of discovery and innovation, management of uncertainties and the distributedness of deliberation and 'decisions'. These may be in, for example, the practice of health and medicine, science or urban laboratories, materialist grassroots activism, labs or processes of governance and policy making.

F01 Machine learning, social learning
Convenor: Jack Stilgoe (University College London)
Bowland North Seminar Room 7: **Wed 25th July, 15:00-16:30**

Machine learning is advancing rapidly, accompanied by grand promises of hype and doom. The everyday applications of machine learning are already to be found in our smartphones and our homes and, soon, in self-driving cars. But who is doing the learning?

F02 Health professionals' adaptation to societal and economic uncertainties, intensifying demands and growing challenges to healthcare provision
Convenors: Assaf Givati (University of Portsmouth); Mick Harper (University of Portsmouth)
Bowland North Seminar Room 7: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel is looking to bring together studies that explore how health professionals in pre-hospital care adapt to societal and economic uncertainties, intensifying demands and growing challenges to healthcare provision.

F03 Scientists - agents under construction
Convenors: Sarah Schönbauer (Technical University of Munich); Rosalind Attenborough (University of Edinburgh)
Welcome Centre Lecture Theatre 4: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30, 16:00-17:30**

As ways of being a scientist have changed vastly across past centuries, so have scientists' identities. We therefore invite critical explorations of the forms and formats that identity might take in modern research environments and reflections upon the scientist as an agent under construction.

F04 STS and normativity-in-the-making: good science and caring practices
Convenors: Jonna Brenninkmeijer (Academic Medical Centre, University of Amsterdam); Annemarie van Hout (Windesheim University of Applied Sciences); Jeannette Pols (Academic Medical Centre, University of Amsterdam); Dick Willems (Academic Medical Centre, University of Amsterdam); Sonja Jerak-Zuiderent (Academic Medical Centre, University of Amsterdam); Vicky Singleton (Lancaster University)
Welcome Centre Lecture Theatre 4: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

As ways of being a scientist have changed vastly across past centuries, so have scientists' identities. We therefore invite critical explorations of the forms and formats that identity might take in modern research environments and reflections upon the scientist as an agent under construction.

F05 Promissory encounters? Exploring innovations at the intersection of reproduction and genetics from a feminist STS perspective
Convenors: Cathy Herbrand (De Montfort University); Nolwenn Bühler (University of Neuchâtel)
Chair: Joanna Latimer (University of York)
Welcome Centre Lecture Theatre 4: **Wed 25th July, 13:00-14:30, 15:00-16:30**

This panel explores the practices and politics of 'innovation' at the intersection of reproduction and genetics through the lens of a feminist STS perspective. It asks how scientific breakthroughs in both fields (re)produce and/or subvert hierarchies of difference and associated inequalities.

F06 Making science and diplomacy: historical and contemporary entanglements
Convenors: Maria Paula Diogo (Universidade Nova de Lisboa); Luísa Veloso (ISCTE, Instituto Universitário de Lisboa); Paula Urze (Universidade Nova de Lisboa)
Marcus Merriman Lecture Theatre (Bowland North): **Thu 26th July, 09:00-10:30**

The session welcomes papers that contribute to the understanding of the forms of relationship between science and diplomacy. Considering that academia and business activities are increasingly transnational, new and renewed forms of governance are required where diplomacy plays a major role.

F07 Methodography of data practices in STS's ethnographic collaboration and participant observation
Convenors: Ingmar Lippert (Museum für Naturkunde Berlin); Julie Sascia Mewes (Humboldt University Berlin)
Bowland North Seminar Room 4: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

How does STS ethnography meet what it researches? Not prescriptive methodology – we invite methodography, describing how methods shape data. We focus on data infrastructures and practices in participant observation and in collaborating with other actants in & around the field, across difference.

F08 Medicine meets the sexed body: discovering, diagnosing, producing and shaping
Convenors: David Andrew Griffiths (University of Surrey); Sorcha Ui Chonnachtaigh (Keele University)
Welcome Centre Lecture Theatre 4: **Sat 28th July, 09:30-11:00**

Western biomedicine has historically worked within a strict binary model of sex and gender, pathologizing those forms of embodiment that do not fit. This panel will open discussions about historical and current 'meetings' that shape and produce both medicine and the sexed body.

F09 Democracies of controlled experimentation? The emerging landscape of social laboratories
Convenors: Franziska Engels (WZB Berlin Social Science Center); Kyriaki Papageorgiou (ESADE/Harvard Kennedy School); Sebastian Pfotenhauer (Technical University of Munich); Verena Kontschieder (Technical University of Munich)
Faraday Complex Seminar Room 1: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

We interrogate the emergent new landscape of "labs" across diverse social and political settings, incl. design labs, change labs, policy labs, and living labs. We explore the epistemic, empirical and political terrain in which these labs are mobilized, and associated promises and governance issues.

F10 The public imagination of the future
Convenors: Roy Bendor (Delft University of Technology); Joost Vervoort (Utrecht University); Peter Pelzer (Utrecht University); Jesse Hoffman (Utrecht University)
Bowland North Seminar Room 4: **Fri 27th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel addresses the status of 'the public' in practices that aim to imagine alternative futures such as scenario planning, design thinking and advertisement. We invite papers that critically explore how futures are made public and how the notion of the public itself may change with futuring.

F11 Technopolitics of integration. Charting imaginaries of innovation in the European Union
Convenors: Ine Van Hoyweghen (KU Leuven); Jim Dratwa (European Commission and Woodrow Wilson Center); Luca Marelli (Katholieke Universiteit Leuven)
Faraday Complex Seminar Room 1: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel aims to make sense of and critically examine the mobilization of S&T innovation towards the consolidation of the EU, asking which visions of the EU do innovation policies encode and perform, and which kinds of socio-political reconfigurations do they bring about.

Measurement, commensuration, markets and values

The problematisation of measurement has provided a rich seam of work across many fields of STS, for example, in the context of financial markets or the construction of 'evidence' in 'evidence based medicine'. This stream invites analyses of the instruments of measurement, the values they carry, what they make visible and what they erase.

G01 Scrutinizing (bio-)technological truth assessments
Convenors: Torsten Heinemann (Universität Hamburg); Larissa Fischer (Universität Hamburg); Bettina Paul (Universität Hamburg)
Bowland North Seminar Room 10: **Fri 27th July, 14:00-15:30, 16:00-17:30**

Technologies measuring the human body are increasingly used in order to verify or falsify truth claims of a person. The panel seeks to discuss questions regarding the technological measurement of truth, its social framing and societal, ethical, and legal implications.

G02 From detachment to appropriation: performing commodification
Convenors: Saskia Brill (Rachel Carson Center); Veit Braun (Ludwig Maximilian University of Munich)
Chair: Alexander Dobeson (Uppsala University)
Bowland North Seminar Room 10: **Sat 28th July, 09:30-11:00, 11:30-13:00**

Commodifying is more than just slapping price tags on things. It entails myriad ways of shaping, measuring, containing, releasing and reattaching objects, not to mention countless transformations of those who commodify. Understanding commodification as enriching, this panel asks how it is performed.

G03 **Technologies that count: big data and social order**
Convenors: Anne K. Krueger (Humboldt University Berlin); Norma Möllers (Queen's University)
Bowland North Seminar Room 10: **Thu 26th July, 09:00-10:30, 11:00-12:30, 14:00-15:30**

This panel invites research which investigates how systems of data practices not only reproduce social order but actively shape it. We specifically look for research which looks into the mechanisms of data production, the political economy of data practices, and the consequences for people's lives.

G04 **Beyond market attachment: differentiating and explicating the role of 'policy devices' in organising economic matters**
Convenors: Oz Gore (University of Leicester); Adam Brisley (University of Manchester); Simon Bailey (University of Manchester)
Bowland Hall Main Room: **Wed 25th July, 13:00-14:30**

This panel aims to reflect on a domain of activity profoundly underrepresented in discussions of the "performativity of economics", namely the public sector. It seeks to unpack how does measurement-for-coordination differ from measurement-for-exchange, and what can be made of 'policy devices'?

G05 **Seeing with data and devices**
Convenors: Dorthe Kristensen (University of Southern Denmark); Minna Ruckenstein (University of Helsinki)
Chair: Nina Janasik-Honkela (University of Helsinki)
Bowland North Seminar Room 10: **Fri 27th July, 09:00-10:30, 11:00-12:30**

The session explores how markets, digital technologies and related metrics 'see' and what they fail to see.

G06 **Integrity: personal virtue, remedy for fraud, object of governance?**
Convenors: Sarah de Rijcke (Leiden University); Bart Penders (Maastricht University); Barend van der Meulen (Rathenau Instituut); Govert Valkenburg (Leiden University)
Bowland North Seminar Room 7: **Sat 28th July, 09:30-11:00, 11:30-13:00**

Integrity can among other things be understood as a virtue, as a policy and governance objective, and as a remedy against fraudulent and irresponsible research. This panel invites perspectives on integrity and on the transformations the concept undergoes under social and institutional changes.

G07 **STS for critical public health studies**
Convenors: Ger Wackers (UiT The Arctic University of Norway); Rolf Andreas Markussen (UiT The Arctic University of Norway); Marthe Schille-Rognmo (UiT The Arctic University of Norway)
Bowland North Seminar Room 10: **Wed 25th July, 13:00-14:30, 15:00-16:30**

This panel engages critically with Public Health to raise questions of accountability. Significant transformations in data infrastructures allow for strong calculations, casting non-compliance as deficit and target for intervention. How can the excluded be recovered to rework boundaries drawn?

Other

Panels which do not fit into a single stream.

V01 Promises and practices of biotechnologies
Chair: TBC
Bowland North Seminar Room 4: **Wed 25th July, 13:00-14:30**

Genomic research, genome testing in healthcare, and the creation of biobanks are rich sites for STS investigation. This panel exposes the frameworks in which genomic practices are situated and how these frameworks configure identities, social relations, and manage uncertainties and expectations.

V02 Epistemic contexts: questions of standards, credibility and expertise
Convenor: Dawn Goodwin (Lancaster University)
Faraday Complex Seminar Room 1: **Wed 25th July, 13:00-14:30**

Questions of where and how knowledge is generated and circulates, and the differential effects incurred are critical points of engagement for STS. This panel explores these themes in the contexts of climate science, global standards and metrics, forensic investigation and biomedical research.

V03 Expertise, publics and anticipations
Chair: Elspeth Oppermann (Charles Darwin University)
Faraday Complex Seminar Room 1: **Wed 25th July, 15:00-16:30**

The complex relations between expertise and public knowledges and their enrolment into technologies of participation, representation and anticipation are enduring themes of STS scholarship. Paper in this session address questions of normativity, inter-disciplinarity, translation and performance.

V04 Imagining and making futures
Chair: Nils Markusson (Lancaster University)
Welcome Centre Lecture Theatre 2: **Thu 26th July, 09:00-10:30**

There has been a resurgence of interest in futures – their imagining, making, formation & power. Papers in this session focus on varied techniques and methods of future making, their product and implications and the power relations they embody.

V06 Markets, innovation dynamics and system building
Convenors: Gordon Walker (Lancaster University)
Bowland North Seminar Room 23: **Sat 28th July, 09:30-11:00**

The dynamics of change in innovation systems and the shifting roles of social-technical devices and infrastructures are key topics for STS, in both historical and contemporary settings. Papers in this session questions of market building, social interests, flexibility and system organisation.

V07 Data infrastructures: practices and consequences
Chair: Mette Kragh-Furbo (Lancaster University)
FASS Building Meeting Room 2/3: **Sat 28th July, 11:30-13:00**

Data infrastructures are now important to many domains of commercial, governmental and everyday activity, with consequences that demand critical attention. Papers consider how power is enacted/resisted, privacy intruded on/protected and the outcomes of digitally-enabled governance regimes.

V08 Exploring relations of authority
Chair: Lisa Wood (Lancaster University)
Marcus Merriman Lecture Theatre (Bowland North): **Sat 28th July, 11:30-13:00**

This panel explores the relationships that underlie different forms of knowledge production and practice. Collaborative yet exclusive, hierarchical yet inquisitive, diffuse yet still shaped by authority; the circumstances of knowledge production and practice analysed here defy easy characterisation.

W01 Teaching STS in an age of post-truth. Sharing challenges, approaches and experiences (Workshop)
Convenors: Sofia Bento (University of Lisbon); Jessica Mesman (Maastricht University); Geert Somsen (Maastricht University); Maximilian Fochler (University of Vienna); Pablo Schyfter (University of Edinburgh)
FASS Building Meeting Room 1: **Fri 27th July, 14:00-15:30, 16:00-17:30**

First, a panel of papers and second, an open roundtable in which those engaged in STS-teaching share their experiences on how to address the challenges posed by an age of post-truth. Contributions can reflect educational challenges, be on applicable teaching or on intervention-oriented teaching.

W02 The ethnographic case [Closed roundtable]
Convenor: Emily Yates-Doerr (University of Amsterdam)
Chair: Joe Deville (Lancaster University)
Discussant: Julien McHardy (Mattering Press/Independent)
FASS Building Meeting Room 1: **Sat 28th July, 09:30-11:00**

This roundtable unpacks the questions: What is an ethnographic case? What can it be made to be? The discussion marks the launch of a new publication in Mattering Press that allows readers to comment publically on text prior to printing—an experiment in open, collaborative forms of peer review.

PAPER ABSTRACTS

Maxigas (Lancaster University) **The social construction of risk and value in information security: recuperation versus détournement.** This presentation narrates how risk and value is constructed in the infosec field through a series of small case studies. Hackers work in conjunction with state, capital and academia to sustain a common ecosystem around shared concerns for the material resistance of digital infrastructures. **D04**

Aarden, Erik (University of Vienna), Joakim **Juhl** (Harvard STS/Aalborg University) and Sebastian **Pfotenhauer** (Technical University of Munich) **A solution looking for a problem? Interrogating the 'innovation imperative' and the 'deficit model' of innovation.** We analyze the proliferating "deficit model" of innovation, in which a lack of innovation is seen as hindering social progress. Using case studies from three countries and drawing parallels to PUS, we develop a framework for how innovation deficits operate and legitimize policy interventions. **F11**

Abergel, Elisabeth (Université du Québec à Montréal) and Céline **Lafontaine** (Université de Montréal) **The promise and challenges of human and animal stem cell tissue economies.** Our paper deals with the promises and challenges of the stem cell tissue economy in the area of bioprinted/biofabricated human and animal tissues. At the intersection between biomedical and agricultural applications we will show how both follow the logic of biomedicalisation and biocitizenship. **B01**

Abeysinghe, Sudeepa (University of Edinburgh) **Shifts in medical work following the Fukushima disaster.** This paper draws on interview data to examine changes in medical professional practice following the Fukushima disaster. These changes included the development of new forms of expertise, the stretching of expertise, and the rise of new relationships between the medical workers and their community. **A24**

Abriszewski, Krzysztof (Nicolaus Copernicus University) **Suitcase science and after. Structures of semi-peripheral knowledge production.** The paper will focus on suitcase science as a dominant form of semi-peripheral scientific knowledge production. It will analyze suitcase science in terms of B. Latour's circulatory model of science from his "Pandora's Hope". **E10**

Abud, Said Jose (CEPHCIS, Universidad Nacional Autónoma de México), Wendy **Bazan** (Muuch Kambal A.C.) and Linda **Russell** (Universidad Autónoma de Campeche) **Who decides what is fair and natural? Mayan beekeeper encounters with global fair trade cooperatives and organic product scientific standardisation and control.** A comparative case study of the introduction of "fair trade" and "organic" honey production in South-east Mexico and requirements for product standardisation and cooperative organisation, explains success and failure in terms of respect for Mayan social dynamics and cultural history. **A05**

Adrian, Stine Willum (Aalborg University) **When "do it yourself" with cryopreserved semen becomes unsafe.** Since 2011 sperm from a Danish Sperm bank was sold and delivered to private customers for home insemination. In 2017 this practice was questioned in the Danish Parliament, leading to a regulative ban. In this presentation it will be questioned how donor sperm for home insemination became unsafe. **F05**

Aicardi, Christine (King's College London), Saheli **Datta** (King's College London) and Tara **Mahfoud** (King's College London) **Relative gains or human security? A closer look at the EU's Ethics Issues Checklist for upstream control of dual-use research in Europe.** Dual-use (DU) technologies present a threat to human security but also hold considerable economic value. Our article takes a closer look at EU policies to control misuse of DU technologies through the lens of the Ethics Issues Checklists and Tables. **F11**

Akerman, Maria (VTT Technical Research Centre of Finland) and Niko **Humalisto** (Finnish Evangelical Lutheral Mission) **Manure and material politics of resource-making: the case study of Biovakka biogas company.** The paper investigates material politics of nutrient recycling: how different material orderings enhance or limit resource-making. It is based on a study of a struggle of farmers to turn a regional surplus of manure into a resource in production of recycled fertilisers and biogas. **A09**

Akerman, Maria (VTT Technical Research Centre of Finland) and Mika **Nieminen** (VTT Technical Research Centre of Finland) **Using boundary object-theory as a framework for understanding adoption of renewable energy innovations in housing: building and HPAC -plan.** The paper explores the potential of the concept of boundary object in shedding light on the dynamics of introducing disruptive modes of distributed energy production for builders with a particular attention to translating expertise across professional spheres and between consumers and experts. **A11**

Akiwumi, Fenda (University of South Florida) and Lorenzo **D'Angelo** (University of Milano-Bicocca) **Making coltan. Technologies, expertise, and knowledge in Sierra Leone mining.** This paper discusses the making of coltan in Sierra Leone. We show how the production of coltan is not exclusively linked to large amounts of foreign capital and sophisticated mining technologies, but also to local knowledge, expertise, and artisanal miners' livelihoods. **A07**

Akrich, Madeleine (MINES ParisTech), Florence **Paterson** (MINES ParisTech, CNRS, PSL) and Vololona **Rabeharisoa** (MINES ParisTech) **Forgetting about the sword of Damocles: how do people live with presymptomatic diagnosis?** To what extent does presymptomatic diagnosis bring in changes to concerned people's understanding of the disease, their bodies, their everyday lives and their relations to their relatives? We will address this question in the context of a non treatable rare disease called CADASIL. **A01**

Akyuz, Kaya (University of Vienna) **Hype, risk, modesty, and Frequently Asked Questions: opening up (new spaces in) science and closing down controversy?** What do Frequently Asked Questions mean in science? How do they contribute to opening up science and closing down further debate at the same time? This paper considers FAQs as an unusual activity in science and tracks their role in the making and unmaking of social science genomics as a new field. **D03**

Alastalo, Marja (University of Eastern Finland) and Funda **Ustek-Spilda** (Goldsmiths, University of London) **CTRL+ALT+DEL: software sorted exclusion of asylum seekers in European population statistics and emergent subjectivities.** This paper traces the asylum seeker category in population and migration statistics in Europe. We argue that, how the "boundaries" are set for inclusion and exclusion are not merely software practices or decisions, but they have important political implications for the groups they are set to count. **E03**

Albert, Alexandra (University of Manchester) **The barriers and opportunities to participation in the Empty Houses Project: crowdsourced citizen social science for more socially robust knowledge.** Citizen social science (CSS) enables the detailed examination of the barriers and opportunities to participation in generating socially robust knowledge. The data produced in CSS is an epistemology, and politics, not just a realist tool for analysis, and one that allows for more active citizenship. **C22**

Allen, Chris (University of Portsmouth) **The contribution of internet use in personal networks of support for long-term condition self-management.** This research examines the role of offline support on the utilization of online health resources for long-term condition self management in a marginalized community. The findings indicate the importance of supportive offline relationships on the uptake of online self-management resources. **F02**

Allen, Stephen (University of Hull) **Organising unknowing?** To imagine meanings of being (post) human Quaker practices have received some attention, for their 'fluidity', and embracing 'unknowing'. From participating in Quaker meetings and interviews, I explore how authority and power can become reconfigured when organising in a relational world. **V08**

Allhutter, Doris (Austrian Academy of Sciences) **Exploring the bias in de-biasing.** My paper analyzes practices of de-biasing in machine learning and natural language processing. It investigates the concept of bias that different de-biasing methods are based on and shows how differing ideas of gender bias and racial bias suggest solutions that vary widely in complexity. A27

Almeida, Maria Strecht (Universidade do Porto) **Collaboration beyond disciplinary boundaries - meetings in outreach activities.** The present paper focus on interdisciplinarity in the science outreach context. With some frequency, activities in this domain bring together different epistemic cultures to address a common question or object. The place of these (brief) meetings in the dynamics of science is discussed. V03

Alter, Hayley (Lancaster University), Monika **Buscher** (Lancaster University), Xaroula **Kerasidou** (Lancaster University) and Maria Alejandra **Lujan Escalante** (Lancaster University) **IsITEthical? Participatory ethics in crises.** This paper present insights from one of IsITethical? Experiments, the EtiKit, a travelling pop-up digital-physical exercise designed to trigger temporal participatory spaces to support ethical conversations. A24

Alvarez, Tamara (The New School) **Lunar extractivism: scientists and mining companies' shared ambitions in the European Space Agency's Moon Village concept.** Drawing on ethnographic material gathered during a two-year fieldwork at the European Space Agency, this paper examines the technological and operational synergies between scientific expertise and extractive industries in ESA's lunar settlement concept. A07

Alvarez, Tamara (The New School) **Unearthing the Moon's secrets: science and extractivism in ESA's and NASA's lunar station concepts.** Drawing on ethnographic material gathered during a two-year fieldwork at ESA and international space organizations, this paper examines the uneasy marriage between scientists and extractive industries in the second race for the Moon. A17

Alvarez, Tamara (The New School) **Innovation and neocolonialism in the European Space Agency's Moon Village concept (or how Europe will guide humanity into deep space).** This paper examines the synergies and frictions between the expert groups implicated in the Moon Village, discussing the ways in which the project's neocolonial rationality and EC innovation initiatives more generally seek to consolidate the EU and advance its position in the international arena. F11

Alzugaray, Santiago (Universidad de la República, Uruguay) **Which comes first? The construction of problems or solutions: science and technology agenda and social inequalities.** Which comes first? Inequality or science and technology? Unequal social systems make unequal S&T? Inequality can be fought through S&T? The presentation proposes to go a step backwards and start thinking about the production and reproduction of inequalities in the process of defining priorities for S&T. C05

Amankwaa, Aaron (Northumbria University) **Forensic DNA retention: public perspective studies in the United Kingdom and around the world.** This review sought to survey primary studies on forensic DNA retention carried out in the UK and other jurisdictions. The goal of the review was to establish the existing knowledge about public perspectives on DNA retention, identify research gaps and provide recommendations for further research. C01

Amelang, Katrin (University of Bremen) and Franziska **Klaas** (University of Bremen) **Data meets electronic waste: practices and temporalities of a transformative encounter.** This talk focuses on the intersection of data and electronic waste handling and highlights data centres as potential hubs of waste accumulation. The data-electronic-waste handling at our university serves as the empirical starting point to dive into the manifold transformations of data_carriers. **A22**

Amelung, Nina (University of Minho) and Helena **Machado** (University of Minho) **"Bio-bordering" in the EU and the surveillance of "non-publics".** The article proposes the notion of "bio-bordering" to focus on recent transnational surveillance regimes targeting criminalized (non)citizens based on biometric technologies used at and across borders. **E01**

Ampe, Kasper (Ghent University) **Understanding the sustainable innovation journey of the Dutch Energy & Resource Factory.** The Dutch Energy & Resource factory aims to enable a transition towards resource recovery and the circular economy in the wastewater system. However, technological, social and political factors intertwine in such a shift, this case study aims to understand how this innovation journey is given shape. **A09**

Andersen, Astrid Oberborbeck (Aalborg University) and Maja Hojer **Bruun** (Aalborg University) **Emerging data infrastructures and ethnographic world-making.** What kinds of social worlds are imagined by different parties developing data technologies such as blockchain and secure multiparty computation? The paper presents a collaboration between mathematicians, computer scientists, control engineers and anthropologists engaging interventionist ethnography. **C16**

Angeli Aguiton, Sara (École des Hautes Études en Sciences Sociales) **The rain, the return, and the credit. Turning climate change into an insurable risk in Senegal.** Climate insurance market based on parametric technologies to measure "rainfall deficit" is emerging in Senegal. This paper empirically studies this "insurance-craft" and look at the simultaneous production of a market infrastructure, an insurable risk and a population of insurable farmers. **A16**

Ansenberg, Uri (University of Manchester) **Strategic planning and the 'smartification' of the city.** As smart cities are becoming a reality, urban strategic planning is greatly involved in the preparations and adjustments needed. Ethnographically following the planning processes of the Tel-Aviv strategic plan this paper portrays the relations between smart cities and urban strategy. **C10**

Antonakaki, Melpomeni (Technical University of Munich) and Bernd **Kasparek** (University of Göttingen) **'Folded Infrastructure' two years on: what is at stake when unregulated spaces generate "best practices"?** This paper proposes the concept of 'folded infrastructure' for addressing the politics of 'hotspots' at the external European border. We ask what can hybrid, unfinished, expendable, short-lived infrastructure show that is relevant to the question of Europe, Europeanisation and its conflicts? **E02**

Aoyagi, Midori (National Institute for Environmental Studies, Japan) and Shinichiro **Asayama** (Waseda University) **Future as infeasible, desirable and unimaginable: an analysis of lay public imaginaries of the 2°C goal and low-carbon energy transitions.** The study critically analyzes how well the IPCC's consensus knowledge can speak to ordinary citizens. By exploring the lay public sense-making of the 2°C goal and the role of low-carbon energy technologies to achieve its goal, it suggests the limit of 'linear-consensus' model of expertise. **V04**

Aradau, Claudia (King's College London) and Tobias **Blanke** (Kings College London) **Acts of digital parasitism: data, humanitarian apps and platform economies.** This paper explores the performative effects of digital humanitarian technologies developed for refugees in the wake of the so-called 'refugee crisis' in Europe since 2015. Drawing on the work of Michel Serres, we develop a method of 'acts of parasitism' as distinctive from 'reverse engineering'. C16

Argudo Portal, Violeta (Autonomous University of Barcelona) **T-cell immunotherapy an ethnographic case study in progress: a donors registry and a cell bank.** Human based banks and biobanks, an ethnographic follow-up of the creation of a donors registry for virus-specific T cells and a cell bank in Spain. Some observations on the bio-objectification processes, 'technology identities" and organizational challenges. B01

Arora, Saurabh (University of Sussex), Ralitsa **Hiteva** (University of Sussex) and Fiona **Marshall** (University of Sussex) **The urban food-water-energy nexus as an ecology of practices.** An innovative approach to understanding the multiform (dis)connections between food, water and energy in the city by focusing on practices of sustenance, performed by heterogeneous assemblages (of human and nonhuman elements) and dis/entangled in ecologies through obligations and requirements. C07

Arribas-Ayllon, Michael (Cardiff University) **Genome testing and the social ontology of childhood adoption.** Our study explores the views and experiences of genome testing amongst two groups of professionals who play a central role in the adoption process - social workers and medical paediatricians. V01

Artyushina, Anna (York University) **The politics of urban design: Google is here to 'fix' Toronto.** In this paper, I focus on the political and civic dimensions of Quayside, a project of smart city planned to be built in Toronto, Canada by Google's parent company. A10

Asayama, Shinichiro (Waseda University) and Midori **Aoyagi** (National Institute for Environmental Studies, Japan) **Future as infeasible, desirable and unimaginable: an analysis of lay public imaginaries of the 2°C goal and low-carbon energy transitions.** See **Aoyagi**, Midori.

Asdal, Kristin (University of Oslo) and Béatrice **Cointe** (University of Oslo) **De-cod-ing valuation experiments: the co-modification of seafood and consumers in experimental settings.** We investigate the practices and techniques that are used to perform and test encounters between goods and consumers in experimental settings by disciplines like experimental economics, consumer studies or sensory studies. To do so we analyse studies characterising farmed cod as a market good. G02

Ashmore, Malcolm (Loughborough University) and Olga **Restrepo Forero** (Universidad Nacional de Colombia) **Why Bogotá? The local, the global, and the interesting. Or: STS, here and there.** Is doing STS in/from Lancaster 'the same thing' as doing STS in/from Bogotá? Is every-one and every-where equivalently 'placed'? In this presentation some of the issues involved - the fractal character of centre-periphery relations; what counts as 'local' or 'global' - are explored dialogically. C12

Ashraf, Hasan (Jahangirnagar University) **Groundwater and pataler pani in Dhaka.** In Dhaka groundwater is an ever scarcer resource that pumped up with diesel and electric water pumps. It's extraction has exhausted pataler pani, water much closer to the surface that used to be accessed with the help of manual wells and hand tube wells. A14

Asveld, Lotte (Delft University of Technology) and Zoe **Robaey** (Delft University of Technology) **Inclusive biobased innovation for sustainability: a case study in Jamaica.** The bioeconomy promises a vision of a sustainable society based on principles of the circular economy. A blind spot in many biobased value chains are the place and practices of biomass producers, i.e. farmers. We combine STS, RRI, and VSD approaches to suggest an inclusive model for resource-making. A09

Atkinson, Sally (University of Exeter) and Susan **Molyneux-Hodgson** (University of Exeter) **Protecting and perfecting nature: performing responsibility in academic-industry collaboration.** We analyse a multidisciplinary synthetic biology project and examine how notions of environment and sustainability are mobilised by participants to perform responsible innovation in the context of this industry-academic collaboration. C15

Attenborough, Rosalind (University of Edinburgh) **The open science "revolution": changing policy, practice - and people?** Scientists around the world are encountering a growing moral-epistemic imperative to be "open". This paper asks whether the era of "open science" is transforming not only policy and practice, but also people: are scientists constructing and internalising openness as an epistemic virtue? F03

Ávila Torres, Víctor (University of York) **On getting attached to music. Strategies and drivers of loving music in everyday life.** Based on a research in Mexico and the UK, this presentation focus on the four-stage process in which the listener gets attached to music in the digital world, as well as the meaningful attachments emerging from that process, making the practice of listening music meaningful in the digital era. B05

Avlona, Natalia- Rozalia (Aristotle University of Thessaloniki) **From the virtual communities of digital commons to the phygital practices of makerspaces: an intersectional feminist study.** This paper will come into grips with the issues of inclusion and exclusion on the base of gender, class and race in the communities of digital common ,through their transition from the virtual to the phygital realm. C23

Bacci Mañaricua, María Pilar (Universidad de la República, Uruguay), Andrea **Bielli** (Universidad de la República, Uruguay), Gabriela **Bruno** (Universidad de la República, Uruguay) and Santiago **Navarro** (Universidad de la República, Uruguay) **Health professionals responses to demands for medical solutions to emotional distress in Uruguay.** This presentation analyzes the strategies that primary care health professionals deploy to respond to demands coming from health services institutions and health systems users to provide medical solutions to emotional distress in Uruguay, a middle-income country universal health coverage. F02

Bachmann, Goetz (Leuphana University of Lüneburg) **Radical engineering: an ethnography of promise.** Based on fieldwork in the "Dynamic Medium Group," an influential research collective in the San Francisco Bay Area, this paper focuses on a specific form of engineering and design, based on a set of promises, most notably the promise of making history by "working on the medium." B07

Bailey, Simon (University of Manchester) and Adam **Brisley** (University of Manchester) **Making up the numbers: quality improvement as a policy device for hard times.** Financialisation has reduced public management to the assembly and maintenance of financial narratives and numbers. This requires devices that can both coordinate and differentiate complex practices. We examine quality improvement projects as one such device for 'making up' numbers. G04

Baker, Karen S. (University of Oulu / University of Illinois at Urbana-Champaign), Andrea **Botero** (University of Oulu), Helena **Karasti** (University of Oulu) and Elena **Parmiggiani** (University of Oulu / Norwegian Uni. of Science and Technology) **The role of research infrastructure formation strategies in opening and closing science.** Environmental sciences are a fertile ground for the formation of research infrastructures. We discuss how different strategies of infrastructure formation configure openness, how they contribute to the processes of gatekeeping, and tend to either close or open scientific knowledge production. D03

Bal, Roland (Erasmus University Rotterdam), Dara **Ivanova** (Erasmus University Rotterdam) and Iris **Wallenburg** (Erasmus University Rotterdam) **The co-laborator: place-making through laboratization practices in a living lab construction.** This paper calls for critically examining laboratization practices and going beyond the metaphor of the laboratory in assessing trendy places with scientific allure like living labs. Laboratization practices should be examined as heterogeneous processes, where different agendas are at stake. B06

Bal, Roland (Erasmus University Rotterdam), Sabrina **Huizenga** (Erasmus University Rotterdam) and Hester **van de Bovenkamp** (Erasmus University Rotterdam) **Urban labs as resilience practices.** We focus on the governance of resilience through urban labs. We approach the laboratization of urban life as a form of experimental governance. By scrutinizing the meaning of the theoretical notion of urban labs for policy and practices we provide insight into the strategies of resilience. F09

Balbierz, Sandra (University Eichstätt-Ingolstadt) **Datafied spaces: (re)figurating the city as laboratory.** Re-reading Chicago School's metaphor of the city as laboratory from the background of emerging data-driven technologies it is asked as to how far attention and observance are modified and (re)figurate sociotechnological interactions in city spaces. C13

Balmer, Andrew (University of Manchester) **The polygraph and police interrogations.** This paper explores how the polygraph machine is used in police interrogations in the United States. Drawing on a selection of interrogation transcripts, I show how examiners use a series of techniques to draw out confessions from suspects, and link this to the production of false confessions. G01

Bandola-Gill, Justyna (University of Edinburgh) **Impacted or impactful? The research impact agenda as a challenge to academic identities.** The so-called research impact agenda has brought about a variety of cultural and institutional changes to the UK academic life. This paper will explore how the increasing focus on the relevance of research has impacted on academic identities and understandings of what constitutes 'academic' work. F03

Barbier, Marc (Institut National de la Recherche Agronomique) and Evelyne **Lhoste** (Laboratoire Interdisciplinaire Sciences Innovations Sociétés) **Organizing inclusion: getting through the borders of innovative communities.** The purpose of this paper is to better understand how open labs manage to resolve the tensions between democratization of innovation and the collectives that constitute them. **B06**

Bareikyte, Migle (Leuphana University Lüneburg) **The Internet development in Lithuania: (research) actors.** The talk will be concerned with the politics of telecommunication industry development, focusing on the Internet through my STS-inspired research on this issue that unfolds through the example of the Internet development in Lithuania after the 1990s. **E10**

Barla, Josef (Goethe University Frankfurt) **Economies of hope and the commodification of life itself: transgenic mosquitoes as technoscientific matters of care.** Drawing on the transgenic mosquito OX513A, this paper explores questions of care in the context of the transformation of living organisms into a commodity that embodies the hopes of containing the spread of infectious diseases, and the hypes of a technology that promises high economic rewards. **C27**

Baroncelli Torretta, Nicholas (Umeå University), Xaviera **Sánchez de la Barquera** (Umeå University) and Heather **Wiltse** (Umeå University) **Who gets to situate design? Reflections from engaging with diversity in design.** Current unsustainability crises and the need for design to more meaningfully engage with 'the social' require situating design more consciously. As in our current project of engaging with Sami people, this raises questions of who gets to situate design, and how to learn to design and live together. **B07**

Barrault, Julia (Université de Bordeaux), Helene **Budzinski** (Université de Bordeaux), Geoffrey **Carrere** (University of Toulouse-Jean Jaurès), Vincent **Dufour** (University of Bordeaux) and Denis **Salles** (IRSTEA) **Interdisciplinary study of the management at the source of pharmaceutical residues in the hospital: a chemical and a sociological analysis.** This presentation analyzes, through a chemical and a sociological analysis, the chemical fingerprint of the hospital, the disposition and the social pressures on the greening process of the medical practices faced the environmental issue of the pharmaceutical residues in the hospital of Bordeaux. **A12**

Barry, Andrew (University College London) **Biopolitics, or a chemical society.** This paper develops two propositions. One is that there has been a surprising neglect of chemistry and chemicals in the social sciences. The second proposition is that despite this neglect, chemistry has come to play a remarkably salient role in social and political life. **A20**

Barry, Kaya (Griffith University) **More-than-human hypermobilities: unravelling the entanglements and resonances of air travel in the Anthropocene.** This paper explores experiences of 'hypermobilities', in particular air travel, as sensations that are more-than-human. A creative artwork that merges audio-visual media and ethnographic documentation will be used to highlight affective resonances and dissonances in such situations. **A26**

Baskin, Jeremy (University of Melbourne) **Between magic and hubris: the geoengineering turn in climate policy and the global South.** I examine the two main imagined geoengineering technologies - the negative emissions technology (NET) BECCS, and solar geoengineering with stratospheric aerosols. I look at how the discourses surrounding each technology engages, albeit very differently, with development and justice concerns. C18

Bath, Corinna (Technische Universität Braunschweig) and Sandra **Buchmüller** (Technische Universität Braunschweig) **Who will be in charge of agency of driving? Negotiating the future of automobility between gender studies and automotive engineering.** We provide insights from a feminist STS study on an interdisciplinary collaboration process between gender researchers and automotive engineers that shows the challenges and difficulties of interdisciplinary dialogues that foster a socially fair and inclusive future (auto-)mobility. C05

Bath, Corinna (Technische Universität Braunschweig) and Imme **Petersen** (Technical University Braunschweig) **Teaching genetics with STS: an innovative program to make students fit for post-truth debates.** German students in biology often feel overwhelmed with debates on post-truth, as mechanisms of the knowledge production are usually not embedded in the curricula yet. This paper presents an undergraduate teaching concept to integrate STS in genetics including the evaluation of students' reactions. W01

Bauer, Anja (Alpen-Adria-Universität Klagenfurt) and Karen **Kastenhofer** (Austrian Academy of Sciences) **Identity formation and transformation in transdisciplinary scholarship: the case of Technology Assessment.** We discuss the identity construction and transformation among Technology Assessment practitioners. Two questions are characteristically at stake in the construction of a 'TA identity', first the role of the original disciplinary identity and second the identity as a scientist or researcher as such. F03

Bauer, Susanne (University of Oslo) and Christine **Hanke** (University of Bayreuth) **Locating the data centre. Attending to place in the study of cloud computing.** This paper will examine cloud computing as a localized practice that has a place - the data centre. We will describe the relations between distributed data flows and the sturdy materiality of place. A22

Baur, Andreas (University of Tübingen) **The cloud at the horizon of the internet infrastructure.** The cloud and the trend to cloud computing is changing internet infrastructure and has also effects on data infrastructures. This paper aims at giving answers to the questions that arise thereof, including centralisation and power relations. A22

Bazan, Wendy (Muuch Kambal A.C.), Said Jose **Abud** (CEPHCIS, Universidad Nacional Autónoma de México) and Linda **Russell** (Universidad Autónoma de Campeche) **Who decides what is fair and natural? Mayan beekeeper encounters with global fair trade cooperatives and organic product scientific standardisation and control.** See **Abud**, Said Jose.

Bea, Sara (University of Edinburgh) **The good, the bad and the difficult: sharpening STS tools to navigate conflicting normativities in the medical practice of deceased organ donation.** This paper examines how the different normativities that underpin social studies of donation have contributed to shaping the ways in which the topic has been rendered. It will sharpen STS tools to navigate conflicting normativities and to address the ethico-political question of intervention. F04

Bellamy, Rob (University of Oxford), Jason **Chilvers** (University of East Anglia), Tom **Hargreaves** and Helen **Pallett** (University of East Anglia) **Why practices and atmospheres of participation matter: insights from a democratic experiment in distributed deliberative mapping.** This paper advances STS approaches to experiments in democracy through making the normativities and atmospheres of participation a focus of experimental intervention. We reflect on a novel experiment in distributed deliberative mapping, where diverse collectives appraised sustainable energy futures. **E09**

Bellamy, Rob (University of Oxford) **Public perceptions of bioenergy with carbon capture and storage under different policy instrument framings.** There is a growing need to responsibly incentivise research and development into negative emissions technologies by accounting for public values. We describe an experimental deliberative method designed to explore how public perceptions might change under different policy instrument framings. **A23**

Bellanova, Rocco (University of Amsterdam) and Ann Rudinow **Saetnan** (Norwegian Institute for Science & Technology) **Resisting visualizations. A cross-species and cross-field comparative exploration - part 1.** This is part 1 of a 2-part paper exploring the meanings of resistances on the part of potential objects and subjects of visualizations in bird-watching and in human surveillance. Part 1 focuses primarily on resistances on the part of objects of visualization. **E04**

Benbouzid, Bilel (University of East Paris) **Unfolding algorithms. The case of predictive policing.** This paper deals with the case of the algorithm of PredPol, the best-known startup in predictive policing. We analyze the values and material consequences involved in the evaluation tests that are used to create the predictions. **A02**

Bendor, Roy (Delft University of Technology) **The designer in the middle: urban futures for public consumption.** This paper asks about the role designers play in envisioning and communicating urban futures to the public. It suggests that the designer's capacity to evoke, challenge, and shape the public imagination is conditioned by three interrelated factors. **F10**

Benneworth, Paul (University of Twente), Kornelia **Konrad** (University of Twente) and Verena **Schulze Greiving** (University of Twente) **Responsible innovation in eHealth? A comparison of projects, networks, and processes.** We study if and how dimensions of Responsible Research and Innovation are addressed in the innovation process of two contrasting types of eHealth projects and how this relates to characteristics of how the projects emerged and were organized. **V06**

Bento, Sofia (University of Lisbon) and Raquel **Carvalheira** (Universidade NOVA de Lisboa) **Environmental Impact Assessment through ethnography: disentangling or negotiating slippery subjects?** Ethnography in Environmental Impact Assessment opens a door to slippery subjects for engineers. Through this experience, we look at different situations during and after fieldwork when techno-scientific knowledge and ethnographic work are debated. **F07**

Bergman, Noam (University of Sussex) and Tim **Foxon** (University of Sussex) **Impacts of the fossil fuel divestment movement.** The fossil fuel divestment movement has had strong indirect impacts on the financial world. Interviews suggest even its critics acknowledge it has changed public discourse and raised the profile of the stranded assets problem, inspired shareholder activism, and strengthened the climate movement. **D02**

Berker, Thomas (Norwegian University of Science and Technology) **Regulation and performance: lessons from the first and the second passive house school in Norway.** Seen from the outside passive houses in Norway are a remarkable success. When we look at individual passive houses and their performance another picture emerges. C19

Bernelin, Margo (University of Nantes) **Big data and the anticipated reshaping of the patient-physician relationship.** The development of massive data collection from patient through the internet of things allows for a profound reshaping of the patient-physician relationship. Drawing from different case studies our research will critically analyse the foreseen transformations. G03

Berscheid, Anna-Lena (University of Paderborn) **Meeting of the minds. Or: on building walls instead of bridges.** Interdisciplinary meetings do not always turn out successfully. In this contribution, I try to make sense of why and how such meetings sometimes lead to establish new boundaries between disciplines instead of integrate knowledge. Furthermore, I seek to reflect about possible STS-interventions. C11

Bertilsson, Jonas (University of Gothenburg) **The enactment of legitimate stakeholders and issues at the Green Climate Fund board meetings.** We show the enactment of legitimate stakeholders and issues at Green Climate Fund board meetings. This enactment is connected to actors' position in power relations and how they make both stakeholders and issues visible or invisible in the GCF. E06

Bertoni, Filippo (Aarhus University) **Engineering the biogeochemical planet: how life support systems shape earthly forms of life.** Here I illustrate the current import of the making of the planetary through the case of MELiSSA, an alternative life support system project. Bringing together biogeochemistry, space science, and cybernetics, this allows me to illustrate the history of biogeochemistry as a universal currency. A17

Beumer, Koen (Utrecht University) and Melanie **Smallman** (University College London) **Inequality matters - comparing discourses of innovation in UK and post-apartheid South Africa.** There is evidence that investment in science and innovation drives economic growth. More recent research suggests it also creates inequalities. Comparing discourses within innovation policy in South Africa and the UK, we consider how inequality is accounted for in government innovation strategies. C05

Beuret, Nicholas (University of Essex) **Toxic capacities: chemopolitics and the horror of late industrialism.** Working through autoethnographic scenes, this paper explores the horror of lead poisoning, untangling what it means to practice politics within the never-quite-confirmed allegations and conspiracies of late industrialism where the very capacity to act and be social has been rendered toxic. A04

Bezuidenhout, Louise (University of Oxford) **Access to equipment and epistemic injustices within scientific research.** The availability of research technologies varies considerably. Many scientists rely on donations of equipment to overcome shortages. While useful, such systems raise considerable epistemic and social concerns, as they may unintentionally perpetuate inequalities within the global science community. C05

Bialski, Paula (Leuphana University Lüneburg) **Hold it together: thresholds of understanding when building routing software.** This paper argues that by uncovering the human-machine complexity of a navigation system, we can uncover the various layers of understanding, misunderstanding, and ignorance among engineers, their managers, and their machines, when building such systems. B08

Biedermann, Sabine (Technical University Berlin) and Denny **Chakkalakal** (Humboldt Universität zu Berlin) **Smuggling everyday Quality of Life into conventional oncological treatment.** The assessment-tool compose enacts a novel way of reflecting, tracking and communicating a specific version of Quality of Life during oncological treatment in germany. This contribution seeks to reflect on how an intervention like this affects clinical practice and the role we play in staging this. C14

Bieler, Patrick (Humboldt-Universität zu Berlin) **New cooperation between social psychiatry and the housing industry in Berlin: staging para-sites from within an urban assembly.** New forms of cooperation between social psychiatric care and the housing industry in Berlin emerge. The paper will zoom in and out of this mode of urban cosmopolitics and reflect on the implications for ethnographic knowledge production that stem from staging para-sites from within these assemblies. C04

Bielli, Andrea (Universidad de la República, Uruguay), María Pilar **Bacci Mañaricua** (Universidad de la República, Uruguay), Gabriela **Bruno** (Universidad de la República, Uruguay) and Santiago **Navarro** (Universidad de la República, Uruguay) **Health professionals responses to demands for medical solutions to emotional distress in Uruguay.** See **Bacci Mañaricua**, María Pilar.

Bielli, Andrea (Universidad de la República, Uruguay), Nancy **Calisto** (Universidad de la República, Uruguay) and Lauren **Predebon** (Universidad de la República) **Dilemmatic situations between benzodiazepine prescription recommendations and practices in Uruguay.** This presentation analyzes some anxiety treatment strategies defined in Uruguayan public health system and their implementation difficulties at micro level. In benzodiazepine prescription practices recommendations about consumption time cannot be taken into account when the doctor meets the patient. C26

Bieszczad, Sarah (University of Vienna) **"It's very simple, they ... just get it done there" - reproductive technologies, gene editing, and moral geographies as sense making devices.** Building on a series of discussion groups on genome editing (CRISPR) in Austria, this paper aims to show how people use "moral geographies" in making sense of these new technological promises. This practice (re)produces hierarchical differences of us/them, here/there and closeness/distance. F05

Bingham, Nick (Open University), Matthew **Cook** (Open University), Gillian **Rose** (University of Oxford) and Alan-Miguel **Valdez** (Open University) **Smart cities in the making: learning from Milton Keynes.** This paper reports on our initial attempts to think through the results of an extended empirical exploration of Milton Keynes as a smart city in the making in order to offer insights into how the urban is composed in the age of austerity, and to whose benefit. C13

Birch, Kean (York University) **Assets, commodities, and their boundaries.** What is an asset? What is a commodity? How is an asset or commodity defined? What does this mean for asset or commodity valuation? These are contested questions in the development of techno-economic practices, knowledges, and governance (e.g. valuation, accounting, corporate governance, etc.). G02

Birkholz, Sina (Technical University of Berlin), Volkan **Sayman** (Technical University of Berlin) and Jan-Peter **Voß** (Berlin University of Technology) **Doing "deliberative mini-publics": tracing translocal networks of experimentation with democratic innovations - does politics become technologized?** We argue that the network of sites in which the model of deliberative mini-publics is developed and deployed constitutes a new space of democratic culture cutting across and interfering with various regionally established cultures of politics. **E09**

Bischof, Andreas (Chemnitz University of Technology), Albrecht **Kurze** (Chemnitz University of Technology) and Johanna **Richter** (Chemnitz University of Technology) **Your mother is watching you: lateral surveillance in smart homes.** The paper reports a cultural probe study on Smart Home data. During the study several cases of lateral surveillance occured within the households. The analysis reveals two major preconditions for lateral surveillance in the Smart Home: Situated knowledge and asymmetrical access to data. **A03**

Bischof, Andreas (Chemnitz University of Technology) **Wag the dog - how robotics configures care situations.** The paper reconstructs how practices of care and nursing are configured by robotics. The findings show, that a high degree of institutionalization of care and nursing helps to conceptualise "users" as passive objects that are part of highly rationalised routines, similar to a "total institution". **E05**

Blacker, Sarah (Technical University of Munich) **Grounding the data: community-based toxicology in Northern Alberta, Canada.** This paper considers how a collision of evidence practices—toxicology and Indigenous Traditional Knowledge—can bring together different ways of knowing about the presence of contamination and its effects for Indigenous people living upstream of northern Alberta's oil industry. **A29**

Blake, Megan (Univeristy of Sheffield) **Waste becoming food: value questions, uneasy solutions, and policy possibilities in the surplus food system.** This paper examines how values and affordances shape the ways in which surplus food travels and flows of surplus food from the commercial supply chain through a surplus-food supply chain and ideally into the stomachs of eaters. **C28**

Blanke, Tobias (Kings College London) and Claudia **Aradau** (King's College London) **Acts of digital parasitism: data, humanitarian apps and platform economies.** See **Aradau**, Claudia.

Bleicher, Alena (Helmholtz Centre for Environmental Research GmbH - UFZ), Martin **David** (Helmholtz Centre for Environmental Research GmbH - UFZ) and Henriette **Rutjes** (Helmholtz Centre for Environmental Research GmbH - UFZ) **The role of framing technologies used by techno-scientific experts to make secondary resources.** Within this presentation we will shed light on the convergence of techno-scientific expertise and local knowledge and reveal mechanisms and techniques that are employed by techno-scientific experts in order to create a shared understanding on secondary mining. **A07**

Blell, Mwenza (Newcastle University) **Who's afraid of ghosts? Ethics, data, and disconnected collaboration in epidemiological research.** Research within a large-scale project called BioSHaRE-EU shows that those engaged in collaboration struggle with aspects of collaboration and respond by creating new bureaucratic procedures, because of ethical concerns, however, these concerns are about authorship, not confidentiality. **C03**

Bleumink, Ryanne (University of Amsterdam), Lisette **Jong** (University of Amsterdam) and Ildikó **Plájás** (University of Amsterdam) **Composite method: experimenting with the absent presence of race in film and facial composite drawing.** The authors produced an experimental setting in collaboration with two forensic artists to study how race comes to matter in police facial composite drawing. This methodographical paper combines written text with experimental montage to analyze the enactment and slipperiness of race in practice. **F07**

Bleumink, Ryanne (University of Amsterdam) **Working with stereotypes in facial composite drawing.** Drawing on ethnographic data from one year of fieldwork at the Dutch police, this paper attends to the enactment of race in general and the work of (stereo)types in particular, in the forensic setting of facial composite sketching. **E08**

Blok, Anders (University of Copenhagen) and Jakob **Laage-Thomsen** (University of Copenhagen) **Modes of urban greening? Civic urban natures in-between familiar engagement and green critique.** Based on a mapping of 'urban green communities' (like community gardens), we deploy Laurent Thé-venot's notion of plural engagements to expand the STS frame on the socio-material politics of urban green futures, in ways that tie familiar attachments to green critiques of urban political economies. **A18**

Bloomfield, Brian (Lancaster University) and Bill **Doolin** (Auckland University of Technology) **Landscape and heterotopia in New Zealand: conflict over oil and gas development.** This paper explores the conflict over oil and gas development of a local landscape in which the Cartesian spatiality of Western environmental governance encounters the cultural landscape of indigenous Māori in New Zealand. **A13**

Blue, Stanley (Lancaster University) **The texture of the terrain.** This paper develops the idea of the 'texture of the terrain' to explore how ways of thinking about materiality and practice matter for methods of conceptualising how social life hangs together and how it changes. **C07**

Bluemel, Clemens and Stephan **Gauch** (DZHW / Humboldt University Berlin) **Large scale data assessments through digital platforms in science- the coproduction of significance.** In this paper, we aim to explore how these data are collected, what drives their collection (e.g., their technical accessibility), how they are ordered and how these orderings resonate within existing frameworks and semantics of science such as open science or societal impact of science. **G03**

Bluemel, Clemens **Valuing open science: the significance of openness between digital platformization and societal legitimation.** In this paper I explore how open science is established as a mode of valuation through the interplay between novel digital platforms on the one hand, and specific modes of interpretation (that is, material practices of ordering knowledge) on the other. **D03**

Boczanski, Tobias (Goethe University Frankfurt) and Laura **Kocksch** (Ruhr-University Bochum) **Coding for the common good - writing software in organizations with care.** In agile teams developers continuously have to coordinate fixing and planning activities, e.g., assign responsibility for flawed code or collaborate to trace back dependencies. In focusing on code practices, we describe how the organization translates into common visions of good software. **C20**

Boersma, Asher (Siegen University) **Isolated yet profoundly networked: a mobile and multi-sited ethnography of control rooms.** Through a mobile and multi-sited ethnography the contradictions of a network of control rooms are studied. Control rooms are physically isolated - organisational struggles are shaped by it. Yet even the smallest sequence of action highlights how operators' work is part of a transnational assemblage. **E06**

Boeva, Yana (York University) **Structures of emancipation in design-centered makerspaces.** This paper asks how is the idea of social emancipation translated into the materialities and practices of open labs. Drawing on fieldwork in several makerspaces with a professional design focus, it unpacks three structural aspects following Star and Ruhleder's concept of infrastructure. **B06**

Böhm, Bernhard (ETH Zurich) **Situating design in architecture: reflections on spatial-visual knowledge in architectural design education.** In this paper, I present results of my STS-based ethnographic research on design and knowledge production in architectural design education. I will show that this knowledge can be conceptualised as "spatial-visual knowledge", that is produced through and represented in drawings and models. **B07**

Borgstrom, Erica (Open University), Simon **Cohn** (London School of Hygiene & Tropical Medicine) and Annelieke **Driessen** (University of Amsterdam) **Non-interventions as form of care.** In this presentation we show that not intervening appears as a difficult thing to do in palliative care. In doing so, we blur the lines between 'doing' and 'not-doing', as to help articulate active non-interventions as a form of care. **B05**

Born, Dorothea (University of Vienna) **Threatening, dominated, vulnerable: visualizations of nature in the climate change communication of GEO and National Geographic.** This paper investigates the visual climate change communication strategies of the two popular science magazines GEO and National Geographic. Comparing articles and images published within the two magazines, I ask what kind of natures are made (in)visible within climate change visuals. **E04**

Böschen, Stefan (RWTH Aachen University) **Epistemic regimes: the case of regulating chemicals in the European Union.** The paper is investigating into the changes of the regulation of chemicals in the European Union under REACH. This legislation forms the basis of e new epistemic experimentalism within regulation affecting the coordination of different views on chemicals. **A12**

Bosma, Esmé (University of Amsterdam) **De-scription of security technologies: countering terrorist financing in financial institutions.** This paper uses Akrich's notion of de-scription to analyse where and how security technologies mediate compliance practices in financial institutions in the context of countering terrorist financing. Findings are based on ethnographic research in banks and other financial institutions. **A19**

Botero, Andrea (University of Oulu), Karen S. **Baker** (University of Oulu / University of Illinois at Urbana-Champaign), Helena **Karasti** (University of Oulu) and Elena **Parmiggiani** (University of Oulu / Norwegian Uni. of Science and Technology) **The role of research infrastructure formation strategies in opening and closing science.** See **Baker**, Karen S..

Botero, Andrea (University of Oulu) and Maria **Ferreira** (Aalto University) **Encounters and disencounters: design, innovation and the 'public' in public sector innovation labs in Ibero-America.** This paper inquiries in to some of the complex relationships that are articulated when mixing, overlapping and transferring concepts like innovation, participation, design and public policy; to the peculiar adaptations of the idea of Public sector innovation labs in Latin America. F09

Both, Goede (TU Braunschweig / University of Cologne) **Ordering the mess of everyday traffic.** Self-driving car assemblages are ordering devices. How does a self-driving car assemblage order its environment and what are the consequences of its ordering? B08

Bottel, Matthias (Technical University of Berlin) and Ingo **Schulz-Schaeffer** (Technical University of Berlin) **The dependence of agile software project organization on agile software development tools.** There is a correspondence between the agile approach of organising and managing projects of software development and the agile methods and tools of structuring and supporting the production of software. We argue that this correspondence is rooted in characteristics of software as a product. C20

Boucher, Philip (European Parliament) **3D bioprinting for medical and enhancement purposes: scenarios and options for European policy.** In this parliamentary research project, we explored current and future technical developments of 3D bioprinting technologies and their implications for European policy. B01

Braun, Veit (Ludwig Maximilian University of Munich) **Distinct, uniform, stable: breeding the perfect good.** When does a good become a commodity? An answer can be found in European plant variety legislation: setting the criteria for plant varieties, it forces breeders to make seed compatible with markets and industrial agriculture - but also allows farmers to circumvent markets and IP rights. G02

Brawner, June (University of Georgia), Aaron **Thompson** (University of Georgia) and Jennifer **Thompson** (University of Georgia) **"You can taste it in the wine": making minerality matter in post-socialist Hungary.** This paper accounts for terroir, the "taste of place", as scientifically/socially co-produced (Jasanoff 2004). Using ethnography and soil sampling in a historic Hungarian wine region, we examine post-socialist terroir-crafting through connections between minerality, ideological legacies, and taste. E10

Bredstrom, Anna (Linköping University) **Race as a multiple object in contemporary biomedicine.** Drawing upon research on psychiatry and human genetics, the paper shows that the ontology of race in contemporary biomedicine is best conceptualised as 'multiple'. This points to the fruitfulness of combining STS-tools and critical race theory to examine how biomedicalization is stratified by race. E08

Breiter, Andreas (University of Bremen) and Hendrik **Heuer** (University of Bremen) **Trust and machine learning.** We discuss the challenges that arise when people interact with machine learning systems. Considering the complexity and indeterminacy of such systems, we argue that it is impossible for people to consciously reflect on machine learning. We further argue that trust helps to overcome these challenges. A27

Brenninkmeijer, Jonna (Academic Medical Centre, University of Amsterdam) **Achieving good interdisciplinary research.** This paper discusses the differences and similarities in the aims, values and concerns of researchers working in Health Technology Assessment. It studies how the goods and the bads are negotiated in this interdisciplinary group, and how this relates to the idea of good science in related fields. F04

Bresch, David N (ETH Zurich/MeteoSwiss), Suraje **Dessai** (University of Leeds) and Maurice **Skelton** (ETH Zurich) **Revisiting the 'thought styles' of Ludwik Fleck (1935): tracing knowledge transfer across 'thought collectives'.** We use Fleck's (1935) 'thought styles' to characterise the relationship between practitioners' thinking and knowledges in urban heat adaptation, and 'thought collectives' to understand fluidity and tension when knowledge crosses thought collectives. A05

Breslin, Samantha (Memorial University of Newfoundland) **Learning to program realities and identities: diffractions of rendering technical in undergraduate computer science education.** This paper explores how student subjectivities and "reality" are simultaneously rendered technical, rendered natural, and rendered in terms of binary gender categories, as undergraduate computer science students learn to program and make software. E03

Brice, Jeremy (LSE) **Meetings and marketplace platforms: platform capitalism and the mediation of food encounters.** This paper asks what new economies and practices of food consumption might be emerging around digital marketplace platforms. In exploring how these platforms match food vendors and consumers together, and who they include and exclude, it examines how platform capitalism shapes meetings around food. C28

Brill, Saskia (Rachel Carson Center) **Between places and markets. How prices for carbon emissions emerge.** By looking at Canada's Great Bear Rainforest, I follow carbon offsets in its process of reattachemet to places, peoples and histories, and discuss how this process reevalutes land and therefore offset pricing. The paper shows how attachment gradually withdraws the good from laws of global markets. G02

Brisley, Adam (University of Manchester) and Simon **Bailey** (University of Manchester) **Making up the numbers: quality improvement as a policy device for hard times.** See **Bailey**, Simon.

Brooker, Phillip (University of Liverpool), Michael **Mair** (University of Liverpool) and Philippe **Sormani** (Swiss Institute in Rome) **Just what are we doing when we're describing AI? Harvey Sacks, the commentator machine and the descriptive turn in artificial intelligence.** Revisiting Sacks' 'Sociological Description' in light of Love's 'descriptive turn', this paper explores the problems different kinds of observer have in describing what AI does and how using two examples - Google's AlphaGo on stage and a commercial natural language processing algorithm at work. B11

Bruni, Attila (Trento University) and Fabio Maria **Esposito Organizing, producing and consuming private life in the age of digital industries.** Referring to an in-depth research on AirBnB hosts conducted in Italy, we will explore the everyday practices of 'house-management' enacted by the hosts, showing the company-user relationship as the result of a continuous process of organizational delegations and assignments. V07

Bruno, Gabriela (Universidad de la República, Uruguay), María Pilar **Bacci Mañaricua** (Universidad de la República, Uruguay), Andrea **Bielli** (Universidad de la República, Uruguay) and Santiago **Navarro** (Universidad de la República, Uruguay) **Health professionals responses to demands for medical solutions to emotional distress in Uruguay.** See **Bacci Mañaricua**, María Pilar.

Bruun, Maja Hojer (Aalborg University) and Astrid Oberborbeck **Andersen** (Aalborg University) **Emerging data infrastructures and ethnographic world-making.** See **Andersen**, Astrid Oberborbeck.

Buchmüller, Sandra (Technische Universität Braunschweig) and Corinna **Bath** (Technische Universität Braunschweig) **Who will be in charge of agency of driving? Negotiating the future of automobility between gender studies and automotive engineering.** See **Bath**, Corinna.

Buck, Holly (University of California Los Angeles) **Carbon removal from below: understanding tensions between discourses of drawdown versus negative emissions.** While "negative emissions" have appeared as an artifact of global modeling, there is also a current of popular discourse on carbon removal, marked by a narrative of regeneration, drawdown, and reversing climate change. This paper looks at the politics enabled by these different conceptualizations. A23

Budzinski, Helene (Université de Bordeaux), Julia **Barrault** (Université de Bordeaux), Geoffrey **Carrere** (University of Toulouse-Jean Jaurès), Vincent **Dufour** (University of Bordeaux) and Denis **Salles** (IRSTEA) **Interdisciplinary study of the management at the source of pharmaceutical residues in the hospital: a chemical and a sociological analysis.** See **Barrault**, Julia.

Bühler, Nolwenn (University of Neuchâtel) and Cathy **Herbrand** (De Montfort University) **Powering life: exploring the bio-objectification of mitochondria in reproduction.** This paper explores the bio-objectification of mitochondria in the field of reproduction. It asks how a feminist technoscience approach helps us to address the implications of their objectification in promissory bioeconomies, while accounting for the way they blur the boundaries of reproduction. F05

Burkay, Helin (Ludwig Maximilian University of Munich) **Ethics and politics of service design: reflections on Canada's Innovation Lab.** This presentation is a reflection on the methodological and political challenges that social innovation labs face in government settings, based on the example of a service design lab in the Canadian federal government. F09

Burkhardt, Marcus (University of Siegen) and Nikolaus **Pöchhacker** (Technical University of Munich) **Learning in the wild: on the problem of adaptivity in machine learning.** The promise of machine learning applications is to be able to adapt to unforeseen futures without being explicitly programmed. This proclaimed adaptivity is, however, not an automatism. We therefore ask how adaptivity is accomplished in machine learning on different levels and to varying extents. A27

Burns, Ryan (University of Calgary) and Grace **Wark** (University of Calgary) **Where's the database in digital ethnography? Exploring database ethnography for open data and smart cities research.** Open data infrastructures are increasingly used to make cities "smarter", but can deepen and (re)produce existing structural urban inequalities. Here we propose the database ethnography as a methodological intervention into the contestations, politics, and promises of open data platforms. C16

Buscher, Monika (Lancaster University), Hayley **Alter** (Lancaster University), Xaroula **Kerasidou** (Lancaster University) and Maria Alejandra **Lujan Escalante** (Lancaster University) **IsITEthical? Participatory ethics in crises.** See **Alter**, Hayley.

Cakici, Baki (IT University of Copenhagen) **Knowing the whole: personal identification number as statistical infrastructure.** The personal identification number is designed to describe the whole population. In this paper, I trace the 'problem subjects' enacted by the different features and limitations of the number, and I show how it brings into being the population it sets out to identify. **V07**

Caldwell, Elizabeth (University of Huddersfield) and Susan **Wilbraham** (University of Cumbria) **Meeting gender in space: visual imagery in children's science books.** Children's books about different science subjects show variation in the visual portrayal of gender. Maths and physics books have significantly fewer images of women than men, but biology books are gender balanced. Female astronauts are pictured doing less technical work in space than men. **E04**

Calisto, Nancy (Universidad de la República, Uruguay), Andrea **Bielli** (Universidad de la República, Uruguay) and Lauren **Predebon** (Universidad de la República) **Dilemmatic situations between benzodiazepine prescription recommendations and practices in Uruguay.** See **Bielli**, Andrea.

Callaghan, Max (Mercator Research Institute on Global Commons and Climate Change) **A topography of climate change research.** This paper machine reads the vast scientific literature on climate change. I employ topic modelling to ask, what is the literature about? How has the topic landscape changed? And how can this landscape inform our understanding of the IPCC's relationship with the literature? **A08**

Callén, Blanca (BAU, Design College of Barcelona) and Daniel **Lopez Gomez** (Universitat Oberta de Catalunya) **Objectual companionship? Intimating with objects at the end of their lives.** We propose the notion of intimate entanglements to explore, in the context of consumption and disposal economies, how objects come to matter to us and what makes us care for them. Hence, we will review the consequences this shift may have for the political ecology of discard and maintenance studies. **A15**

Calvillo, Nerea (University of Warwick) **Creating atmospheric compounds through human and nonhuman involvements.** How to design compounds to involve, and how compounds involve us? The involvements that emerged in the design and construction of an infrastructure to make air pollution sensible reveal the interdependence of compounds and their entanglements with embodied and affective experiences. **A04**

Campbell, Patricia (Red Deer College) **Embodiment and self-care practices: how injured runners negotiate medical expertise online.** Recognizing the materiality of communication practices, this paper examines how mediated biomedical expertise becomes intertwined with the social and embodied experience of injury in an online community to produce situated knowledges that challenge or reconfigure dominant biomedical practice. **A01**

Cañada, Jose (University of Helsinki) **Hybrid assemblages on the move: a more-than-human understanding of pandemic threat identification and governance.** Pandemic viruses are a threat to global health because of the way they move around the globe. However, they do not travel alone but as part of more-than-human assemblages. These assemblages are key in threat identification processes and in the way pandemic flows and care are governed. **A26**

Carboch, Radek (Masaryk University, Charles University), Zdeněk **Konopásek** (Charles University) and Michal **Synek** (Charles University / Masaryk University) **Making clients to decide for themselves: turning people with learning difficulties into "modern subjects".** We discuss the practical, ethical and theoretical problem of "autonomous decision-making" in the context of social services for people with learning difficulties. How to de-attach (emancipate) the clients of these services from professional assistance? By what specific re-attachments? **B05**

Carboch, Radek (Masaryk University, Charles University), Dana **Hradcova** (Faculty of Humanities Charles University), Dita **Jahodová** (Faculty of Humanities, Charles University) and Michal **Synek** (Charles University / Masaryk University) **In between silence and re-describing matters of care: an attempt at ethnography of cognitive dis/ability.** We explore how silence surrounding cognitive dis/ability is created and dispelled, in care and in STS research. Could the ruins of disabling discourses left after the attack of critique be repopulated by re-describing critical matters of care? **B11**

Cardwell, Emma (Glasgow University) **Hypermetabolic N: the social life of nitrogen.** Nitrogen makes up the bulk of Earth's atmosphere, but is also a dangerous anthropogenic pollutant. Reactive nitrogen both sustains life by feeding crops, and destroys life as a powerful explosive. It's also completely invisible. How, as a society, can we make sense of this chemical trickster? **A20**

Carlsson, Moa Karolina (MIT) **How to conceal a 395-acre oil handling terminal: landscape and visual impact analysis at Flotta, Orkney, 1969-1978.** This paper examines the advent of computational techniques to measure the degree of visual intrusion in scenic landscapes by proposed developments, and discusses how 2 perceptual theories were operationalized, each with a distinct history in military contexts: line-of-sight and intervisibility. **V03**

Carmi, Elinor (Royal Holloway, University of London.) **"Don't let them feed you with organic sorts": demystifying 'organic' ordering on social media with rhythmedia.** This paper proposes a new theoretical approach to examine the way media companies (re)order people, objects and their relation in specific temporalities for economic purposes, called rhythmedia. Focusing on Facebook, I show how it enacts an artificial boundary between organic and paid ordering. **C20**

Carradore, Roberto (University of Milan-Bicocca) and Christian **Colella** (University of Milano-Bicocca) **The 360°approach as a case of undone science: knowledges about a plant phatology in Apulia.** This paper aims to give an account of an ongoing research about the local construction of knowledge about a phytopathology known as Olive quick Decline Syndrome affecting Olive trees in Aplulia (It). The contribution will give an account of the so-called"360approach"pursued by local social movements. **A05**

Carrasco, Jimena (Universidade Austral do Chile) and Arthur Arruda **Ferreira What is a dog able to do? Producing a new cosmopolitan antropozoogenesis in Chilean cities.** The aim of this work is to reflect about singular antropozoogenesis blending dogs-and-humans through a foreign and ethnographical experience. For that, I will propose some concepts as: 1) interespecies citizenship/ socialism; 2) reciprocal domestication/care; and 3) domestic cosmopolitism. **A26**

Carrere, Geoffrey (University of Toulouse-Jean Jaurès), Julia **Barrault** (Université de Bordeaux), Helene **Budzinski** (Université de Bordeaux), Vincent **Dufour** (University of Bordeaux) and Denis **Salles** (IRSTEA) **Interdisciplinary study of the management at the source of pharmaceutical residues in the hospital: a chemical and a sociological analysis.** See **Barrault**, Julia.

Carusi, Annamaria (University of Sheffield) **Chemicals in the 21st century: morphing models, blurring boundaries.** Chemical safety testing is currently under intense pressure, both scientifically and politically. As the domain undergoes fundamental change, three shifts are prominent: the status of animals as models; the boundaries between organism and environment; and the scientific publication. A29

Carvalheira, Raquel (Universidade NOVA de Lisboa) and Sofia **Bento** (University of Lisbon) **Environmental Impact Assessment through ethnography: disentangling or negotiating slippery subjects?** See **Bento**, Sofia.

Caser, Ursula (Technical University of Munich) **Togetherness and co-creation in a VUCA-world - chances and challenges.** The contemporary VUCA-world requires a shift from top down decision making to co-creation, based on a quintuple helix innovation model. Consequently, a stakeholder plurilogue, is needed which sees conflict not as a highway to dystopia, but uses it as a driver for reflection and consensual change. C12

Casini, Silvia (University of Aberdeen) **Affectivity and data-visualisation entanglements in the (re)invention of Magnetic Resonance Imaging technologies.** I explore the entanglement between affectivity, memory and data-visualisation in the context of the Aberdonian (re)invention of MRI technologies. The parasitical function of material objects coming from the archive and lab ethnography illuminates affectivity and memory in the (re)invention of MRI. A15

Cassen, Christophe (Centre International de Recherche sur l'Environnement et le Développement), Béatrice **Cointe** (University of Oslo) and Alain **Nadai** (Centre national de la recherche scientifique) **Organising policy-relevant knowledge for climate action: Integrated Assessment Modelling, the IPCC, and the emergence of a collective expertise on socioeconomic emission scenarios.** This paper analyses how Integrated Assessment Models organised into a community around the production of socio-economic scenarios for the AR5 (2005-2014). It studies the repertoire that served to organise this work, frames epistemic practices of this community, in interaction with the IPCC WGIII. A08

Cassidy, Angela (University of Exeter) **"Conscience implies a sense of duty". Good science and caring for wild animals in applied ecology.** In this paper, I will discuss the work of UK government scientists charged with researching 'pest control'. I draw on recent scholarship on the mutual constitution of 'good science' and modes of care, to understand British environmental knowledge controversies involving wildlife, science and policy. F04

Cellard, Loup (University of Warwick) **Experimenting the parliament as a platform. Design cultures at the french National Assembly.** Based on a fieldwork at a civic tech lab in the french National Assembly, this talk will show how design expertises and methods are used to experiment the creation of a "parliament as a platform" and will ask whether citizens points of view are avoided or integrated in this experimental crafting. E09

Chakkalakal, Denny (Humboldt Universität zu Berlin) and Sabine **Biedermann** (Technical University Berlin) **Smuggling everyday Quality of Life into conventional oncological treatment.** See **Biedermann**, Sabine.

Chan, Anita (University of Illinois, Urbana-Champaign) and Stefania **Milan** (University of Amsterdam) **Data cultures from the Global South: decentering data universalism.** Feminist and decolonial STS has critiqued hyper-celebratory framings of ICTs in the Global South as offering a universal path towards a digital future. Building on critiques of the myth of a salvationary "digital universalism," we explore efforts in the Global South challenging data universalism. C23

Chavinskaia, Lidia (Institut national de la recherche agronomique) **Keep diversity - make standards! Interbull as a space of international commensurability for cattle breeding standards.** This socio-historical study shows how the uncertainty of the product quality on the genetic resources market was captured by political and scientific actors to create a technical international order of cattle breeding based on the principle of the diversity of commensurable evaluation standards. G04

Chekar, Choon Key (University of Leeds), Sarah **Cunningham-Burley** (University of Edinburgh), Anne **Kerr** (University of Leeds) and Julia **Swallow** (University of Leeds) **Accomplishing complex genomic based multi-arm trials: Working with tissue, time and value.** This paper explores how a multi-arm genomics trial is accomplished in everyday practices of cancer care by focussing on the active agency of tumour tissue. Practices of care operate alongside institutional arrangements to render experimental biomedical research 'workable' and 'bearable'. A15

Chiapperino, Luca (University of Lausanne) and Francesco **Panese** (University of Lausanne) **The biosocial imaginaries of epigenetics: performance, visibility, ethopolitics.** This talk investigates how researchers in epigenetics and Developmental Origins of Health and Disease (DOHaD) currently (re)produce, perform and experiment with alternative imaginaries of biosociality. A01

Chilvers, Jason (University of East Anglia), Rob **Bellamy** (University of Oxford), Tom **Hargreaves** and Helen **Pallett** (University of East Anglia) **Why practices and atmospheres of participation matter: insights from a democratic experiment in distributed deliberative mapping.** See **Bellamy**, Rob.

Chopra, Simran (Northumbria University), Rachel **Clarke** (Northumbria University), Adrian **Clear** (Northumbria University) and Sara **Heitlinger** (Newcastle University) **Citizen led visions of the future smart city from grassroots urban agriculture.** Taking a participatory and speculative design approach in a UK community, we unpack how material practices of urban agriculture might be configured in a future "smart" sustainable city imagined by its citizens, and we contrast this with technosolutionist visions of smart cities from the literature. D01

Cigarini, Anna (Universitat de Barcelona) and Josep **Perelló** (Universitat de Barcelona) **When co-creation of citizen science drives empowerment: an example from the mental health community.** A collaborative exercise of co-creation in citizen science practices can encourage in-community mental health care promotion and provision. The effort results into a collective experiment which creates the right data to respond to specific community concerns through games on digital platforms. C22

Clark, Nigel (Lancaster University) and Lauren **Rickards** (RMIT University) **Infernal encounters: extractive communities at the intersection of earth system and stratigraphic trouble.** Our concern is a new species of trouble emerging at the intersection of earth system change and geological destratification. In the context of a 2014 wildfire-ignited coal seam fire in Australia, we explore how extractive communities are complexly positioned as victims, witnesses and perpetrators. A24

Clarke, Rachel (Northumbria University), Simran **Chopra** (Northumbria University), Adrian **Clear** (Northumbria University) and Sara **Heitlinger** (Newcastle University) **Citizen led visions of the future smart city from grassroots urban agriculture.** See **Chopra**, Simran.

Clear, Adrian (Northumbria University), Simran **Chopra** (Northumbria University), Rachel **Clarke** (Northumbria University) and Sara **Heitlinger** (Newcastle University) **Citizen led visions of the future smart city from grassroots urban agriculture.** See **Chopra**, Simran.

Clement, Andrew (University of Toronto) **Inverting the global internet surveillance infrastructure with IXmaps, the crowd-sourced mapping tool.** This talk will reflect on 8 years of experience with IXmaps.ca, an internet mapping platform designed to render state surveillance more transparent and democratically accountable, in light of such STS themes as: infrastructural inversion; enrolling and translating actors; and making things public. C23

Cloatre, Emilie (University of Kent) and Francesco **Salvini** (University of Kent) **Indigenous epistemologies in global health: WHO regulation of traditional medicine since Alma Ata 1978.** The paper examines the WHO's engagement with traditional medicine, and interrogates the regulatory shaping of indigenous epistemologies in global health. This history offers important insights to address how alternative epistemologies of care have been mobilised in global health since 1970s. C25

Clormann, Michael (Technical University of Munich) and Nina **Witjes** (Technical University of Munich) **The panopticon reversed? A mutual perspective on and from Earth and Outer Space.** We engage with the rising "new space age" through simultaneously looking from and at space to better understand its current sociotechnical challenges. Combining approaches from STS and Security Studies, we link frames of securitization with those of technological manageability and responsibility. A21

Cohn, Simon (London School of Hygiene & Tropical Medicine), Erica **Borgstrom** (Open University) and Annelieke **Driessen** (University of Amsterdam) **Non-interventions as form of care.** See **Borgstrom**, Erica.

Cointe, Béatrice (University of Oslo) and Kristin **Asdal** (University of Oslo) **De-cod-ing valuation experiments: the co-modification of seafood and consumers in experimental settings.** See **Asdal**, Kristin.

Cointe, Béatrice (University of Oslo), Christophe **Cassen** (Centre International de Recherche sur l'Environnement et le Développement) and Alain **Nadai** (Centre national de la recherche scientifique) **Organising policy-relevant knowledge for climate action: Integrated Assessment Modelling, the IPCC, and the emergence of a collective expertise on socioeconomic emission scenarios.** See **Cassen**, Christophe.

Colella, Christian (University of Milano-Bicocca) and Roberto **Carradore** (University of Milan-Bicocca) **The 360°approach as a case of undone science: knowledges about a plant phatology in Apulia.** See **Carradore**, Roberto.

Coles, Anne-Marie (University of Greenwich) **The role of system builders in UK urban tramway development, 1870-1896.** The role of system builders explains dynamics of emergent infrastructures. A core principle is the flexibility to shape large technical systems. However, investigating the role of system builders in early UK tramways demonstrates how contingent constraints can restrict this flexibility for action. **V06**

Conrad, Lisa (Leuphana University Lüneburg) **New transparency, new opacity.** Enterprise resource planning software (ERP) has become a standard in large and medium-sized organizations. While these packages are mainly framed as tools for increasing transparency, they can also be used to hide and conceal certain actions - at least by those who know how. **G05**

Cook, Matthew (Open University), Nick **Bingham** (Open University), Gillian **Rose** (University of Oxford) and Alan-Miguel **Valdez** (Open University) **Smart cities in the making: learning from Milton Keynes.** See **Bingham**, Nick.

Cook, Simon (University of Dundee), Sam **Illingworth** (Manchester Metropolitan University), Maria **Loroño-Leturiondo** (Manchester Metropolitan University) and Paul **O'Hare** (Manchester Metropolitan University) **Women's imagination of future, less polluted, urban environments.** Contemporary environmental challenges prompt exploration of local knowledge and of different societal groups. Here we present findings from interviews with women, who are key actors in the two main contributors to air pollution: transport and households. We discuss their views and imaginings of air pollution and clean urban environments. **F10**

Cools, Pieter (Universiteit Antwerpen) and Axelle **Meyermans** (Universiteit Antwerpen) **Citizen stakeholder's visions of monitoring strategies in nuclear waste disposal sites: an inquiry into the political life of a 'counter-imaginary'.** Confronted with diverging visions on the future of repository monitoring in geological disposal, this paper assesses the various dynamics at play in the 'opening up' and 'closing down' of this debate by relating this discussion to considerations of materiality and power. **D02**

Cooper, Daniel (University of Oxford) **The Alleluia syncretic revitalization movement.** This paper analyzes the Alleluia movement and compares it with Anthony F.C. Wallace's concept of a revitalization movement derived from his work with the Iroquois in North America and their Old Way of Handsome Lake movement (1972). **C12**

Correljé, Aad (Delft University of Technology), Eefje **Cuppen** (Delft University of Technology), Udo **Pesch** (Delft University of Technology) and Toyah **Rodhouse** (Delft University of Technology) **Changing futures for gas in the Netherlands – exploring the role of the public in energy system change.** The Dutch energy system is to be redesigned in response to public controversies regarding gas. Here, we present a conceptual framework to longitudinally explore the relationships between the evolving public debate on gas, concurrently evolving energy futures of decision-makers, and the process of redesign. **F10**

Courmont, Antoine (Sciences Po) **Open data infrastructures: the tension between attachment, detachment and reattachment.** This paper introduces an analytical framework for open data policies based on the tensions produced by the attachment, detachment and reattachment of data. It highlights that technical choices made in the implementation of a data infrastructure have strong impacts on the making of (open) data worlds. C16

Coveney, Catherine (University of Sussex), Cathy **Herbrand** (De Montfort University) and Nicky **Hudson** (De Montfort University) **Genetics, heritability and family histories: materialising the healthy egg donor in clinical screening practices.** This paper explores how a variety of screening techniques are framed as promissory strategies in the context of egg donation. It considers how screening tools and the knowledges they produce, materialise a particular construction of the idealised, healthy donor. F05

Cowan, Hannah (London School of Hygiene and Tropical Medicine) **When tinkering goes wrong: innovating to care or caring to innovate?** This paper reassesses the concept of tinkering using the ethnographic example of hip replacements. Through looking at when tinkering goes wrong it highlights the relationship between morally good and caring intentions to improve care and the pressure to constantly innovate and make something new. V08

Cox, Emily (Cardiff University) **The politics and publics of Enhanced Weathering for carbon sequestration.** We present a series of expert interviews and a cross-national survey of lay publics, on the ethics and acceptability of negative emissions proposals such as Enhanced Weathering. We explore their potential role in future social and political systems, and the factors likely to shape public responses. A23

Coyle, Fiona (University of Edinburgh) **The social construction of genome-editing technologies in the conference agora.** […] conferences are the places where the community learns the etiquette of today's truth (Collins, 2004). This paper explores the social construction of genome editing technologies in the conference space and asks whether narratives established surrounding technologies influences their moral status. C27

Cozza, Michela (Mälardalen University) and Lucia **Crevani Matters of concern in welfare technology.** Matters of concern can be defined as complicated, engaging, diverse, fragile, and situated issues that researchers can contribute to articulate. We present and discuss five matter of concern that emerged from a research project on ageing and welfare technology in Sweden. E05

Cressman, Darryl (Maastricht University) **Disruptive innovation & the idea of technology.** As a concept, disruptive innovation strongly resonates with a number of different sociotechnical futures. In this presentation, I will examine how these contested, and at times incommensurable, political and socio-economic visions of disruptive innovation share a similar idea of technology. D01

Crevani, Lucia and Michela **Cozza** (Mälardalen University) **Matters of concern in welfare technology.** See **Cozza**, Michela.

Criado, Tomás (Humboldt University of Berlin) **Architectural intraventions: pedagogical experiments with 'technical democracy' in design studio projects.** A reflection on a series of pedagogical 'intraventions' in architecture training, experimenting with different predicative and experiential modes of putting STS insights, and most particularly technical democracy, to work. C14

Cruz-Santiago, Arely and Ernesto **Schwartz-Marin** (Exeter University) **The death, the living and the disappeared: bringing back absent bodies in mass atrocities through DNA, and cybernetic citizenship.** DNA and dataveillance has been mobilised by citizens to search for truth when the state is involved in the crimes it investigates, bringing to life a participatory STS, that enrols mobile apps and grass-roots DNA databases, to face the challenges posed by mass atrocities, conflicts, and insecurity. C01

Cubellis, Lauren (Washington University in St. Louis) **"Inchoate potential": negotiating ethnographic presence in dialogic network therapy.** This paper explores crisis intervention in which clinicians engage clients dialogically (Bakhtin 1981) to manage psychiatric crisis. My presence in these meetings - anthropological, dialogic, and personal - demands a re-examination of the analytic and existential work of participant-observation. C04

Cuevas Garcia, Carlos (Technical University of Munich) **Scaffolding expertise: from expectations to interventions in the development of biofabrication.** Biofabrication is a novel field focused on the production of biological and biomedical constructs and scaffolds, but the development of the field itself requires solid scaffolding. The presentation will examine how different actors contribute to scaffolding the field of biofabrication. B01

Cunningham-Burley, Sarah (University of Edinburgh), Choon Key **Chekar** (University of Leeds), Anne **Kerr** (University of Leeds) and Julia **Swallow** (University of Leeds) **Accomplishing complex genomic based multi-arm trials: Working with tissue, time and value.** See **Chekar**, Choon Key.

Cuppen, Eefje (Delft University of Technology) **Governing crowd-based innovations: sociotechnical reconfiguration through institutional work.** Crowd-based innovations (CBIs) (e.g. sharing platforms, citizen science etc) often occur in the context of well-established, institutional and governance structures and practices. We develop a framework for understanding how institutional work around CBIs reshapes sociotechnical configurations. B03

Cuppen, Eefje (Delft University of Technology), Shannon **Spruit** (Delft University of Technology) and Elisabeth **van de Grift** (Delft University of Technology) **Nuancing NIMBYism: examining perspectives on the practice of community engagement in energy projects.** Energy projects often encounter opposition. In this paper we address encounters of professionals working on community engagement in such projects. We used Q methodology to uncover the diversity of perspectives of this group on their own practice as intermediary between different actors. A11

Cuppen, Eefje (Delft University of Technology), Shannon **Spruit** (Delft University of Technology) and Elisabeth **van de Grift** (Delft University of Technology) **Social conflicts in energy projects: exploring differences in moral appraisals through the lens of epistemic cultures.** Energy projects often encounter fierce opposition, such social conflicts depict a difference in normative appraisal of the project. In this paper we explore the mechanisms and structures that bring about differences in moral appraisals of energy projects through the lens of 'epistemic cultures'. D02

Cuppen, Eefje (Delft University of Technology), Aad **Correljé** (Delft University of Technology), Udo **Pesch** (Delft University of Technology) and Toyah **Rodhouse** (Delft University of Technology) **Changing futures for gas in the Netherlands – exploring the role of the public in energy system change.** See **Correljé**, Aad.

Currie, Morgan (University of Edinburgh) **Instrumental, collaborative, agonistic: a spectrum of civic data projects in Los Angeles.** This paper analyzes civic data projects. The world-making capacities of these projects fall on a spectrum, with one end exemplifying participation that colludes with the administrative state, and the other end a means to political action by social movements advocating for systemic change. C16

Curtis, Maximilian (University of Cambridge) **The state of the future? E-stonia and the techno-utopian commodification of identity in the digital age.** The "E-stonia" model of e-governance and now e-residency promises a new vision of digital statecraft and a radical alternative to the international system. But this digital future of "government as a service" reflects Estonia's post-Soviet past and its capitalist, Silicon Valley-inspired present. V07

Curto-Millet, Daniel and Roser **Pujadas** (London School of Economics and Political Science) **Digital platforms in the sharing economy: from matchmaking to boundary making.** The digital platforms of the sharing economy participate in the reconfiguration of economic relations, and organising in complex ways. We explore the (in)visibilities and ontological politics involved in the reconfiguration of roles, and the distribution of responsibilities, in the case of Uber. A09

D'Angelo, Lorenzo (University of Milano-Bicocca) and Fenda **Akiwumi** (University of South Florida) **Making coltan. Technologies, expertise, and knowledge in Sierra Leone mining.** See **Akiwumi**, Fenda.

Dahl, Justiina (KTH Royal institute of Technology) **Responsibility to drill or not to drill for oil in the Arctic Ocean? The translation of techno-scientific uncertainty into political power, then and now.** The 21st century has witnessed the rise of an expectation of increase in human activity in the Arctic. This presentation illustrates how this horizon of expectation consists of two incompatible interpretations of the relationship between science, technology and the environment in global governance. D01

Dahler, Anne Marie (University College Lillebælt) and Sara Malou **Strandvad** (University of Groningen) **Ways of encountering water: ethics of freediving.** Based on an ongoing study of freediving, the sport of diving as long or deep under water without assisting air, this paper looks into the ethos of aquatic encounters by investigating various ways of diving and the role of instructors in providing and mediating experiences. A14

Dai, Lianghao (Georg-August-Universität Göttingen) **To collaborate interdisciplinarily but work disciplinarily? Trading zone and the cognitive dynamics of interdisciplinary collaboration.** This paper investigates a key tension between working independently and interdependently in interdisciplinary teams. A clear division of labor that turns research problems that require heterogeneous academic expertise partially into homogeneous questions using single disciplinary means is found. V02

Dal Gobbo, Alice (Cardiff University) **When institutions do not help: making and mending sustainable energy systems at home.** In the context of decarbonisation, institutional energy systems' change lags behind the inventiveness of everyday life assemblages. Here, practices of creative rediscovery, recycling and care produce "primitive technologies" that are low-carbon but also enable affectively rich experiences of energy. A11

Danesi, Giada (University of Lausanne) **Living with type 1 diabetes as a biosocial form of living.** This paper explores living with type 1 diabetes as a biosocial form of living through the lens of the uses of diabetes self-management technologies and the entanglements between them and the experiences of the body and the self of people living with chronic illness. **A01**

Dankova, Hana (Institute of Sociology, Czech Academy of Sciences) and Nina **Fárová** (Institute of Sociology, Czech Academy of Sciences) **Politics by other means? Czech chemical industrial R&D institutes before and after 1989.** The paper contributes to STS scholarship on the position and role of science and technology during and after the Cold War with an archival analysis of Czech chemical industrial R&D institutes which played a distinct political role in international relations both before and after 1989. **F06**

Dankova, Hana (Institute of Sociology, Czech Academy of Sciences) and Nina **Fárová** (Institute of Sociology, Czech Academy of Sciences) **Transformation processes after 1989 reflected in changes to Czech industrial chemical research institutes.** The paper presents a research project into the pre-1989 standing and subsequent transformation of chemical industrial research and development institutes. The project examines the situation of the researchers working at the institutes and the fate of their knowledge in the transformation process. **E10**

Danyi, Endre (Goethe University Frankfurt) and Michaela **Spencer** (Charles Darwin University) **Cosmopolicy-in-practice.** We tell a story of the collaborative development of evaluation processes supporting government engagement in remote Northern Territory Aboriginal communities. Accounting for these dual and situated evaluation practices involves an analytic shift to an engagement with cosmopolicy-in-practice. **A13**

Darch, Peter (University of Illinois at Urbana-Champaign) **Too much, too soon? Emerging domains of science and the logic of reproducibility.** Many stakeholders regard pursuing reproducibility as essential for enhancing scientific integrity. However, requirements for reproducibility implicate a logic at odds with practices in emerging domains of science. This logic has the potential to harm these domains' long-term prospects. **G06**

Datta, Saheli (King's College London), Christine **Aicardi** (King's College London) and Tara **Mahfoud** (King's College London) **Relative gains or human security? A closer look at the EU's Ethics Issues Checklist for upstream control of dual-use research in Europe.** See **Aicardi**, Christine.

David, Martin (Helmholtz Centre for Environmental Research GmbH - UFZ), Alena **Bleicher** (Helmholtz Centre for Environmental Research GmbH - UFZ) and Henriette **Rutjes** (Helmholtz Centre for Environmental Research GmbH - UFZ) **The role of framing technologies used by techno-scientific experts to make secondary resources.** See **Bleicher**, Alena.

Davies, Gail (University of Exeter) and Rich **Gorman** (University of Exeter) **"My genes are in mice": intimate encounters in co-clinical trials.** This paper explores the personal encounters and public dilemmas emerging as personalized medicine and patient partnerships create new intimate entanglements between patients, researchers and laboratory animals within co-clinical trials. **A15**

Davies, Sarah (University of Copenhagen) **Being lucky and making choices: making sense of mobility.** International mobility is increasingly part of scientific careers. In this paper I ask: how do scientists make sense of, and narrate, their mobility experiences? I find diversity in sense-making, and discuss in particular concepts of 'luck' and 'choosing'. F03

Davies, Sarah (University of Copenhagen) and Katrine **Lindvig** (University of Copenhagen) **Situating integrity: locating policy concepts in practice.** In this paper, we explore what happens to the meaning of integrity when the concept is applied to research as a whole? If the aim is responsible research, where does integrity reside, and who bears responsibility for ensuring it? G06

de Laet, Marianne (Harvey Mudd College) **Mixing dirt with water. Or, on the importance of keeping the bacteria content.** Among water purification methods, enrolling bacteria is hailed as sustainable, environmentally-sensitive, organic. I explore human-organism collaborations in clean water practices and the terms that secure them. Care doesn't translate easily; "meeting" may be how language and practices relate. A14

De Pryck, Kari (University of Geneva) **International expertise under 'controversy'. The case of the IPCC.** In this paper, we explored how controversies have influenced and made more visible the practices, procedures and discourses of hybrid organizations like the Intergovernmental Panel on Climate Change (IPCC). A08

de Rijcke, Sarah (Leiden University), Wolfgang **Kaltenbrunner** (Leiden University) and Ruth **Müller** (Technical University of Munich) **Filling in the gaps. The politics of interpreting academic CVs in evaluative situations.** Drawing on a set of 25 interviews with applicants and referees in a prestigious German fellowship program, this paper presents an analysis of how researchers understand, cultivate and negotiate the interpretive conventions that underpin the assessment of academic CVs in evaluative situations. F03

de Saille, Stevienna (University of Sheffield), Carmen **McLeod** (University of Nottingham) and Brigitte **Nerlich** (University of Nottigham) **Serious yet playful: the benefits of play when social scientists and synthetic biologists meet.** This paper outlines interdisciplinary workshops that were devised using LEGO® SERIOUS PLAY®, involving social scientists and synthetic biologists. We argue that opportunities for playfulness during interdisciplinary encounters can enable novel insights and understanding across disciplinary divides. C11

de Saille, Stevienna (University of Sheffield) **Beware the intersections: developing a feminist lens for discussions of genome editing.** This paper explores whether we can use current discussions on responsible innovation to help develop a feminist intersectional lens through which to examine responsibility, inclusion and innovation in the field of human genome editing. C27

de Wit, Sara (University of Oxford) **Water, solidarity and the hereafter in Madagascar: or how to keep society and the pump running?** This paper explores the two particular notions of fihavanana and adidy that are invoked by the users of the Malagasy bush pump. Based on ethnographic fieldwork carried out in southeastern Madagascar it will interrogate the (im)possibilities of translating these idiosyncratic terms. A14

DeFalco, Amelia (University of Leeds) **Disposable bodies: robots and care in Real Humans.** This paper will consider how the imaginary posthuman affects depicted in Real Humans can assist us in analyzing the political and ethical implications of actual care robots. **V04**

Deibel, Eric (Bilkent University) **Information and the biopolitical: thinking across bio-objects.** The biopolitical refers to thinking across informatic ways of acting on and interacting with bio-objects. Drawing on examples from the intersection of life sciences and environmentalism, it is argued that there is a shift in what is recognized as an alternative in different fields. **C09**

Delicado, Ana (Lisbon University) **Citizen science from below or from above: a tale of two projects.** This paper aims to discuss and compare two citizen science initiatives, one promoted by scientists and through digital platforms, the other analogical and citizen-driven, in order to explore the potentials and pitfalls of the two formats, under the framework of active citizenship. **C22**

Delvenne, Pierre (University of Liège) **Temporary decommodification? Sorting things out in the capitalist value chain of soy in Argentina.** Based on a rich empirical description of the capitalist value chain of soy in Argentina, I put a neglected technological device at the center of the analysis: "silo bolsas" allowing farmers to conserve their harvest. I show a blurring of the categories of commodity and asset in value creation. **G02**

Dennis, Fay (Goldsmiths, University of London) **Intimacy over 'evidence': disrupting modes of knowing drug-related harm.** Following the drug-body-worlds I encountered in my research with people who use drugs, and speculating on a study which explicitly engages in these collectives, I will explore how intimacy offers a way of knowing and intervening with bodies and drug affects where 'evidence' is inherently curtailed. **A15**

Derra, Aleksandra (Nicolas Copernicus University) **Meetings and relationalities instead of individuals and separated units. Reformulation of biological concepts for life sciences in XXI century.** The aim of the paper is to present selected problems of the geography of knowledge production in the case of biological conceptualization, with special attention being given to the examples taken from ecological evolutionary developmental biology. **E10**

Dessai, Suraje (University of Leeds), David N **Bresch** (ETH Zurich/MeteoSwiss) and Maurice **Skelton** (ETH Zurich) **Revisiting the 'thought styles' of Ludwik Fleck (1935): tracing knowledge transfer across 'thought collectives'.** See **Bresch**, David N.

Deville, Joe (Lancaster University) **Disaster on standby.** This paper examines the contested forms of participation that disaster preparedness organisations engage in while on standby. Specifically, it examines a set of Swiss disaster preparedness organisations for which standby is a particularly intensive yet simultaneously frustrating mode of behaviour. **A24**

Dey, Tridibesh (University of Exeter) **Introducing 'care' into circular economies: implications on pro-posal, use and dis-posal.** This paper addresses forms of 'care' that respect particularities of co-elaborated molecules. Caring opens up alternative ways of re-use and association with the 'disposable' and seeks to 'potentialize' molecular bonds rather than destroy them. **A09**

Dimitrievski, Ivanche (Linköping University) **Foreclosing "conflict": an ethnography of futures at the European Spallation Source.** This paper analyses some of the visions regarding ESS - a future spallation facility in the south of Sweden - to address "conflict" as a performance. What can these visions tell us about the ecology of "conflict", its dynamics, and the non/political subject? D01

Diodati, Francesco (University of Bologna) **Efficiency, standardization and the complexity of integrating care for old people in a primary care setting in Northen Italy.** This paper explores the relationship between Aging population and Economic Restructuring in a primary care setting in Northen Italy. It highlights provider's perceptions of standardization and efficiency processes and the complexity of providing integrated care for old people. F02

Dodds, Catherine (University of Glasgow) and Peter **Keogh** (Open University) **Embodiment, affect and the transformation of HIV: intimate knowledge and biomedical consensus.** In this paper we revisit accounts of people living with or around HIV collected through qualitative studies conducted over the last 22 years in order to explore the potential of intimate (embodied and affective) forms of knowledge to trouble biomedical consensus around the transformation of HIV. A15

Domènech, Miquel (Universitat Autònoma de Barcelona) and Núria **Vallès-Peris** (Universitat Autònoma de Barcelona) **Empirical imaginaries of care robots in a children's hospital.** Empirical imaginaries are proposed as a tool to look into desirable scenarios of the use of care robots in health care. Vision Assessment methods are used in order to explore fears about, and challenges of, the use of care robots in a children's hospital. C03

Dominguez, Andres (University of Edinburgh) **Data infrastructures for all: the case of community networks and the DiY IoT Scene.** New communication standards and open-source tools and building blocks are allowing more actors to engage in shaping the Internet of Things. This paper explores the formation of new milieus where citizens and expert users are able to appropriate data infrastructures and innovate on their own. A28

Domínguez Guzmán, Carolina (University of Amsterdam) and Annemarie **Mol** (University of Amsterdam) **Caring for the canal: exploring water management and cuidar.** Through an ethnographic visit to the Huallabamba canal in the Peruvian Andes, we learn that the function of the irrigation system depends on adaptable care as much as on masterful control, something made invisible in the modern vocabulary of water management officials. A14

Doolin, Bill (Auckland University of Technology) and Brian **Bloomfield** (Lancaster University) **Landscape and heterotopia in New Zealand: conflict over oil and gas development.** See **Bloomfield**, Brian.

Dorn, Anna (University of Mainz) **Use and representation of substances. Experimentation in natural science lessons.** In natural science lessons substances are omnipresent. Chemicals and everyday substances take part in 'experiments'. My paper explores two ways of representation: firstly, in form of practical experimentation and secondly in form of the chemical notation on the blackboard. A12

Dorthe, Gabriel (Institute for Advanced Sustainability Studies) and Stefan **Schäfer** (Institute for Advanced Sustainability Studies) **Constitutional climates: solar geoengineering in the co-production of climate expertise and global order.** We present a set of preliminary observations of solar geoengineering, comparing the problem diagnoses on which it relies, what is promised in its name, and how it is sustained (or not) as climate expertise is co-produced with political, ethical and normative choices. C18

dos Reis Peron, Alcides Eduardo (University of São Paulo) **Predictive punishment? The detecta and the "governamentalization" of the security polices in São Paulo.** Our focus in this work is to debate how São Paulo public security policies are constantly relying on the adoption of predictive security means - such as the Detecta - and instruments that conciliates the governamentality of public spaces, and costumery police intervention and brutality. A02

Draude, Claude (University of Kassel) and Goda **Klumbyte** (University of Kassel) **Whose knowledge, whose power? Investigating principles of machine learning from a feminist epistemological perspective.** This paper looks at the principles of knowledge production and legitimization through data-based algorithms in machine learning. It asks what kind of conceptual models of learning and knowledge are proposed, and how these models can be re-evaluated from the perspective of feminist epistemologies. A27

Driessen, Annelieke (University of Amsterdam), Erica **Borgstrom** (Open University) and Simon **Cohn** (London School of Hygiene & Tropical Medicine) **Non-interventions as form of care.** See **Borgstrom**, Erica.

Drimie, Scott (University of Stellenbosch), Laura **Pereira** (City University of London) and Olive **Zgambo** (Food and Agriculture Organization of the United Nations) **T-labs as transformative spaces: the case of alternative food networks in the Western Cape, South Africa.** Two T-labs on alternative food networks were held in South Africa. This paper interrogates the messiness of convening transformative spaces and their potential for invigorating systemic change to sustainability. It describes the process, learnings and outcomes that the process elicited. C28

Dudhwala, Farzana (Oxford University) **Whose feedback is it anyway? Enacting agency in online health experience reports.** Online patient feedback is increasingly used to obtain views from patients. This results in healthcare services being shaped in the name of certain 'patients' at the exclusion of others. This paper addresses the changing nature of health services as a response to patient experience data. G07

Dufour, Vincent (University of Bordeaux), Julia **Barrault** (Université de Bordeaux), Helene **Budzinski** (Université de Bordeaux), Geoffrey **Carrere** (University of Toulouse-Jean Jaurès) and Denis **Salles** (IRSTEA) **Interdisciplinary study of the management at the source of pharmaceutical residues in the hospital: a chemical and a sociological analysis.** See **Barrault**, Julia.

Dunk, Rachel (Manchester Metropolitan University), Paul **O'Hare** (Manchester Metropolitan University) and Regine **Sonderland Saga** (Manchester Metropolitan University) **University students' perspectives of a Smart City: integrating needs and aspirations.** The dominating interpretation of Smart Cities reflects a technocratic viewpoint. It has been broadly critiqued for limited inclusion of citizen's narratives to create a 'more just' Smart City. This paper explores university students' understandings and perceptions of the Smart City. **A10**

Dunn, Rachel (Durham University) **Representation in nineteenth century chemistry.** This paper will discuss representation in nineteenth century chemistry, focusing on John Dalton (1766-1844) and his work on the atomic theory. It will also briefly explore the tools and models used by some of his contemporaries in demonstrating molecular structure. **A20**

Durrant, Abigail (Northumbria University) and Alex **Taylor** (City, University of London) **Modelling cells in risky comakings and devious worlds.** We use String Figures and Involutionary Momentum to "read against the grain" of a contemporaneous biology characterised by reduction. Working through the design of a tool that models cellular stability, we spin a yarn of "affectively charged" relations between researchers, cells and technologies. **B09**

Egbert, Simon (Universität Hamburg) **PRECOBS: theory- and correlation-based construction of crime futures.** Predictive policing is not as revolutionary as commonly depicted. Rather, corresponding software uses quite conventional sources of information. I will illustrate this by drawing on empirical data of the development and utilization of the crime prediction software 'PRECOBS'. **A27**

Egher, Claudia (Maastricht University) **Digital biocommunities: community-building and sharing practices on blogs and forums among people diagnosed with bipolar disorder.** This paper argues that people diagnosed with bipolar disorder form digital biocommunities by combining personal experiences and particular sharing practices with specific engagements with blogs and forums. This shows that the Internet can enhance solidarity and the development of supportive groups. **A01**

Ehrenstein, Véra (Goldsmiths, University of London) and Daniel **Neyland** (Goldsmiths, University of London) **Cement and the material form as bearer of responsibility and accountability.** Cement is an endlessly exciting compound at the heart of the ambivalent modernist project. We will suggest a focus on compounds provides an opportunity to reconsider how material forms can become bearers of responsibilities and accountabilities. **A04**

Eireiner, Anna Verena (Munich Center for Technology in Society) **Self-regulation vs. precautionary principle: governing uncertainty in and around DIY biology in Europe and North America.** This paper offers an empirical analysis of the DIY bio movement in Germany and Canada. Within the two political cultures and regulatory traditions, technological innovation is perceived radically different. This co-shapes the formation and practices of DIY biologists in both countries. **D04**

Ejderyan, Olivier (ETH Zurich) **Techno-scientific promises as a negation of the future. The case of Enhanced Geothermal Systems.** This paper contributes to discussions on performances of socio-technical imaginaries. It examines the effects of promises of access to cheap, unlimited and regular power through enhanced geothermal systems (EGS). **A11**

Eli, Karin (University of Oxford) and Tanja **Schneider** (University of St. Gallen) **Digital eating: exploring the contours of platformed food.** We consider how STS can contribute to studying emerging food practices that we describe as 'digital eating', i.e., eating practices enabled and maintained through digital technologies. We develop a conceptual framework for researching how digital eating is reshaping people's relationships with food. C28

Endaltseva, Alexandra (EHESS\ Linköping University) **"Life of Things Project": being useful as a way of knowing.** This paper reflects on the practice of taking seriously the sensitivities encountered in ethnographic fieldwork within the patient organization in Russia. It introduces 'being useful' as a mode of research engagement that provokes the neglected work to come into being and knowing. F07

Engel, Nora (Maastricht University) **Aligning to variable and shifting (user-) settings in developing point-of-care diagnostics for tuberculosis and HIV.** This paper discusses how developers and implementers of TB and HIV diagnostics align their technologies to the point-of-care and how uncertainty, global standards, and scarce resources cause frictions with the continuous nature of alignment work, impacting access and utilization of technologies. C25

Engelmann, Lukas (University of Edinburgh) **Digital epidemiology and the disruption of public health.** 'Digital Epidemiology' is the algorithmic analysis of social media data rather than of cases reported through medical and public institutions. This paper discusses the significant political and epistemological implications of this digital disruption of public health. G07

Engels, Franziska (WZB Berlin Social Science Center), Sebastian **Pfotenhauer** (Technical University of Munich) and Alexander **Wentland** (Technical University of Munich) **Testing future societies - how test beds re-interpret and co-produce technology and society.** This paper points at the underexplored co-productionist character of test beds, stating that these sites are as much about the testing and demonstration of technologies as of future socio-technical orders and associated forms of governance. F09

Epstein, Ben (University College London) **Evaluating care work and searching for scientific grounding in the disaster zone: disaster mental health activities in northern Japan.** This paper explores mental health responses to the 3/11 disaster in north-eastern Japan from the point of view of providers, and the ways in which professionals situate the practical value of care work within the broader social context and normative scientific discourse. F04

Ernst, Waltraud (Technical University Dresden) **Meeting in collaborative figurations.** Feminist figurations have been keen on rendering other worlds possible: other worldings. To understand technoscientific figurations as a practice of worlding among others, opens the space for alternative meetings. How to meet in collaborative technoscientific realities with feminist responsibility? B09

Ertner, Marie (University of Copenhagen) and Signe Louise **Yndigegn** (IT University of Copenhagen) **Matters of time - the different times of technological innovation and care practice.** This paper explores the divergent ways of assembling ageing, time, technology and care in practices of innovation, home care, and the everyday lives of elderly people. Drawing on empirical observations of controversies around time and technology, we inquire into the ontology of time. E05

Esposito, Fabio Maria and Attila **Bruni** (Trento University) **Organizing, producing and consuming private life in the age of digital industries.** See **Bruni**, Attila.

Evans, Sam Weiss (Tufts University) **Threats to democracy: balancing democratic ideals and security concerns.** The construction and reenactment of a state is inextricably linked to the things that the state considers a threat to its existence. Areas of science and technology routinely fall into these categories of threats to states. How should states balance democratic ideals and imperatives fo security? **E09**

Even Chorev, Nadav (European Institute of Oncology) **Patients becoming with predictive technologies: examining relationality in practice in a personalized cancer clinical trial.** A relational view of patients was proposed against the focus on molecular aspects of disease in new biomedical practices that decontextualizes patients. I examine possibilities of accounting for wider contexts in such practices, using a qualitative case-study of a personalized cancer clinical trial. **C26**

Eyert, Florian (Weizenbaum Institute for the Networked Society), Florian **Irgmaier** (Weizenbaum Institute for the Networked Society), Rainer **Rehak** (Weizenbaum-Institut für die vernetzte Gesellschaft) and Lena **Ulbricht** (WZB Berlin Social Science Center) **A new form of social ordering? Investigating the impact of datafication practices on regulation.** We investigate the implications of quantification and datafication for regulatory practices. Enriching a well-tried phase model of regulation with insights from STS, we present a conceptual framework that allows to capture empirically the ways in which datafication transforms social ordering. **G03**

Farias, Ignacio (Humboldt University of Berlin) **Doing participatory urbanism: traps and tropes for technical democratization.** Working with a city on the co-design of smart infrastructures, we ended up trying to intervene in the administration's understanding of participation. We followed two strategies: one rhetorical based on the mobilization of tropes and one situational aimed at setting traps. **C14**

Fárová, Nina (Institute of Sociology, Czech Academy of Sciences) and Hana **Dankova** (Institute of Sociology, Czech Academy of Sciences) **Politics by other means? Czech chemical industrial R&D institutes before and after 1989.** See **Dankova**, Hana.

Fárová, Nina (Institute of Sociology, Czech Academy of Sciences) and Hana **Dankova** (Institute of Sociology, Czech Academy of Sciences) **Transformation processes after 1989 reflected in changes to Czech industrial chemical research institutes.** See **Dankova**, Hana.

Farré, Lluvi (Fundacio per a la Universitat Oberta de Catalunya) and Daniel **Lopez Gomez** (Universitat Oberta de Catalunya) **Designing persistent maladjustments: age simulation suits and the problematization of elder's agency.** We approach age simulator suits as test settings designed to hamper the material and emotional adjustments between the body and the environment, focusing a process of disentangling the individual agency of the elder and the collective agency of infrastructures in a new space of problematization. **E05**

Fearon, Kristine (De Montfort University) **"You are not ready to be a mum if you are not listening to a medical professional say it is not safe": how 'reproductive responsibility' affects family-building choices in women with Turner Syndrome.** This paper uses the concept of 'reproductive responsibility' (Novas and Rose, 2000), the perceived reproductive obligations that follow from genetic knowledge, to discuss the gendered nature of women's choices around reproduction in the context of Turner Syndrome (TS). F05

Felder, Kay (Technical University of Munich) and Ruth **Müller** (Technical University of Munich) **Evidence for excellence? How ERC reviewers attribute (non-)excellence to researchers.** We trace how reviewers for the ERC attribute excellence to researchers when they assess CVs and projects. By understanding peer-reviews as processes that construct rather than apply notions of quality, we investigate who comes to count as an excellent scientist as well as a good reviewer today. F03

Felt, Ulrike (University of Vienna), Maximilian **Fochler** (University of Vienna), Susanne **Oechsner** (University of Vienna) and Andrea **Schikowitz** (University of Vienna) **The Science in Society Laboratories: training students to analyse contemporary techno-scientific controversies and develop normative recommendations.** In this paper, we present a teaching format in which students learn to map a current real-world controversy, to grasp the complexity of the production and regulation of contemporary techno-science, to use this knowledge to recommend actions, and to communicate to different audiences. W01

Felt, Ulrike (University of Vienna) and Florentine **Frantz** (University of Vienna) **How institutions think: governing research integrity in university environments.** Building on a document analysis of research integrity policy papers of Austrian universities and interviews with those responsible for their translation into institutional practice, we aim to show the different models of governance at work and what imagination of contemporary research they perform. G06

Felt, Ulrike (University of Vienna), Maximilian **Fochler** (University of Vienna) and Lisa **Sigl** (University of Vienna) **Anticipation as a normative practice. Life science researchers' anticipatory practices between care and managerialism.** Anticipation is seen as central in "good science", as defined by "Responsible Research and Innovation". However, in practice, different forms of anticipation in life science research relate to different normative repertoires, some managerial, some caring, as well as to different temporalities. V03

Ferreira, Arthur Arruda and Jimena **Carrasco** (Universidade Austral do Chile) **What is a dog able to do? Producing a new cosmopolitan antropozoogenesis in Chilean cities.** See **Carrasco**, Jimena.

Ferreira, Maria (Aalto University) and Andrea **Botero** (University of Oulu) **Encounters and disencounters: design, innovation and the 'public' in public sector innovation labs in Ibero-America.** See **Botero**, Andrea.

Fischer, Larissa (Universität Hamburg), Torsten **Heinemann** (Universität Hamburg) and Bettina **Paul** (Universität Hamburg) **Modes of seeing and socio-technical visions in the research field of truth verification.** Our target of interest is the research field of truth verification. We focus on the reciprocal influence of specific modes of seeing and corresponding sociotechnical interaction when certain visual methods such as eye tracking are used as a tool for truth detection. G01

Fitzgerald, Des (Cardiff University) **Biophilic entanglements - intimate life in urban environments.** This paper is about how, in contemporary cities, the notion of 'biophilia' - the idea that humans have an innate desire for intimacy with natural and living things - is producing a new ecological politics of urban life. A15

Fleming, James (Colby College) **Climate intervention: new and emerging opportunities in STS.** This presentation will examine new and emerging opportunities for STS scholars to gain historical, cultural, and technical perspectives on climate intervention order to develop informed, serious, and yet accessible critiques. C18

Fletcher, Isabel (University of Edinburgh) **'I can be part of that cool new thing if I eat more soft boiled wholegrains'. Developing new food/nutrition policies (and cultures) in Denmark and Scotland.** This presentation describes the results of a pilot research project interviewing expert stakeholders in Scotland and Denmark about their understandings of the concept of sustainable diets, and the policy measures that are needed to reduce the environmental impacts of the food system. C28

Fochler, Maximilian (University of Vienna), Ulrike **Felt** (University of Vienna), Susanne **Oechsner** (University of Vienna) and Andrea **Schikowitz** (University of Vienna) **The Science in Society Laboratories: training students to analyse contemporary techno-scientific controversies and develop normative recommendations.** See **Felt**, Ulrike.

Fochler, Maximilian (University of Vienna), Ulrike **Felt** (University of Vienna) and Lisa **Sigl** (University of Vienna) **Anticipation as a normative practice. Life science researchers' anticipatory practices between care and managerialism.** See **Felt**, Ulrike.

Fonseca, Susana (University of Lisbon) **Chemicals in daily life - an emerging concern ignored in Portugal?** There have been regular alerts on the risks that different chemical substances may pose for human health, particularly for vulnerable groups. Here we aim at presenting the results of a study being conducted with pregnant women in Portugal, regarding their perceptions and practices on this matter. A12

Fothergill, Tyr (De Montfort University), Bernd **Stahl** (De Montfort University) and Inga **Ulnicane** (De Montfort University) **Policy framing of risks and opportunities of an emerging technology: the case of Artificial Intelligence.** The aim of this paper is to study framing of an emerging technology of Artificial Intelligence (AI) in policy documents of the European Union institutions and stakeholders, and compare it with discourses at the national level and other regions including the US, UK and China. F11

Foxon, Tim (University of Sussex) and Noam **Bergman** (University of Sussex) **Impacts of the fossil fuel divestment movement.** See **Bergman**, Noam.

Franssen, Thomas (Leiden University) **The politics of what humanists do: digital humanities as an epistemic regime.** Digital humanities research has attracted considerable attention and large amounts of funding from funding bodies in recent years. This paper explores digital humanities as an epistemic regime through which governance actors aim to modernize the humanities, its practices and its scholars. F03

Frantz, Florentine (University of Vienna) and Ulrike **Felt** (University of Vienna) **How institutions think: governing research integrity in university environments.** See **Felt**, Ulrike.

Franzen, Martina (WZB Berlin Social Science Center) **Citizen science: paving the way for automated knowledge production?** While the debate around citizen science revolves around the question of whether it will make science more democratic, this paper proposes an alternative reading: To what extent is citizen science a transient phenomenon - just another step on the way to an automated system of knowledge production? C22

Freeth, Rebecca (Leuphana University) **Meaningful co-creation and collaboration: how high do the stakes have to be?** Do crises of legitimacy create high enough stakes for individuals to attempt the difficult work of meaningful co-creation? This paper considers collaborative experiences in South Africa and Germany and looks at conditions that fuel co-creation of knowledge towards more sustainable futures. C21

Frezouli, Ermioni (University of Twente), Annalisa **Pelizza** (University of Twente) and Aristotle **Tympas** (National and Kapodistrian University of Athens) **"Something like hospitality": the "illegal" migrant in discourses and materialities regarding pre-removal centers and registration/identification infrastructures after the EU-Turkey deal.** The paper will introduce to an argument concerning the analogy and interaction between registration/identification infrastructures and pre-removal centers. E02

Fritz, Livia (École Polytechnique Fédérale de Lausanne) **Making spaces of participation: an enquiry into researchers' and practice actors' narrations of participatory knowledge production in sustainability research.** We enquire into the making participation in 5 research projects of a funding program for sustainability research. Guided by the concept of relational space, we explore narrations of scientific and local actors on the constitution of participation and the role of their respective knowledge therein. A05

Fuchs, Gerhard (University of Stuttgart) **On site public participation in the development of renewable energy installations.** When asking the question whether and on what grounds formal decisions about energy technologies and infrastructures are contested, we have to adapt a relational view, distinguishing between spatial, social, temporal and material aspects. D02

Fuzesi, Peter (Lancaster University) **Meeting users and meeting needs - negotiating use in assistive technologies.** My presentation draws on ethnographic data and reports on practices of assistive technology professionals in the UK's public healthcare system. My aim is tracing connections between critical approaches to design and practices of accommodating dis/abled people with technological means. B07

Gabrys, Jennifer (Goldsmiths, University of London) **Making urban worlds: involving citizens, particles, sensors and cities.** This presentation documents how citizen practices of using sensor technologies to monitor air quality in Southeast London generate distinct forms of involvement through the operationalization of monitoring technologies, particulate matter, urban problems, citizen data and community organization. A04

Gad, Christopher (IT-University of Copenhagen) and Helene **Ratner** (Aarhus University) **'Data basing' Danish educational governance - Relations, 'gaps' - and ontological experimentation.** The Data Warehouse (TDW) is an important infrastructural component in Danish educational governance. We examine how TDW connects, but also produces inter-organisational 'gaps'. Educational governance appears as a series of ontological experiments rather than a system with one overarching logic. **A06**

Gaglio, Gérald (University of Nice Sophia Antipolis) **Softare and organizing: the case of a telemedicine toolkit to manage emergencies in nursing homes.** This communication will explore the emergent side of organizations that we call « organizing » and how this emergent side collides with the formal side of organization. To understand this encounter, we will scrutinize the experimental deployment of a telemedecine software between ten nursing homes and an emergency medical dispatch center in France. **C20**

Gailing, Ludger (Leibniz Institute for Research on Society and Space) **Reconfiguring regional energy spaces: competing dispositives and imaginaries.** Conceptualising competing sociotechnical realities and imaginaries from a dispositive perspective means exploring networks where power is inscribed in spatial ensembles and visions. The paper analyses regions with both a fossil-fuel- or nuclear-based generation of electricity and renewable energies. **D01**

Galanova, Olga, Abigail **Nieves Delgado** (Ruhr University Bochum) and Estrid **Sørensen** (Ruhr-Universität Bochum) **Opening (and closing) doors for security: negotiations of trust.** We present three case studies to analyze the negotiations of trust involved in three security scenarios: political, offline-online, and digital. We show how different actors generate the conditions to open and closing doors and how trust is a rather contextual condition. **C24**

Galasso, Ilaria (European Institute of Oncology) and Giuseppe **Testa** (European Institute of Oncology / University of Milan) **Precision medicine benefitting populations? Discourse of altruism around precision medicine cohorts.** Precision medicine targets individual specificity by analyzing populations commonalities. My paper investigates how, vice versa, analyses on individual specificities are used to target population health interventions, and the extent to which cohort participation is promoted as a matter of altruism. **C26**

Garnett, Emma (King's College London) **Chemical entanglements in air pollution science and research.** Taking the elemental ambiguity of PM2.5 as its starting point, this paper explores the chemical entanglements of PM2.5 in air pollution research. The author then reflects on the spatial and temporal shaping of exposure by tracing the social and relational chemical life of particles. **A20**

Gaska, Paweł (Nicolaus Copernicus University) **The black boxes of visual interfaces - study of the power structures in the field of gameplay.** Using a mix of concepts from ANT, Bourdieu and Galloway I will analyze how the visual interfaces in games shape the structures of power. To answer questions about the distribution and redistribution of power, and which actors are capable of it, I will examine two case studies: WoW and Hellblade. **E04**

Gauch, Stephan (DZHW / Humboldt University Berlin) and Clemens **Bluemel Large scale data assessments through digital platforms in science- the coproduction of significance.** See **Bluemel**, Clemens.

Geampana, Alina (Queen Mary University of London) and Manuela **Perrotta** (Queen Mary University of London) **Non-invasive predictions: visual predictive tools in IVF.** This paper stems from a broader research project that investigates the case of the diffusion of Time-Lapse Imaging (TLI) tools in IVF and explores the promissory discourses on visual predictive tools as a non-invasive innovation enabling knowledge production. F05

Geden, Oliver (Max Planck Institute for Meteorology) and Felix **Schenuit** (German Institute for International and Security Affairs) **Techno-fixes in theory and (political) practice: conditions and challenges for policy implementation.** Geoengineering research still neglects the question how techno-fixes fit in the dominant climate policy paradigm. A differentiation between conditions of integrating geoengineering in conceptual thinking and conditions of practical governance helps to reflect on techno-fixes' policy relevance. C18

Geden, Oliver (Max Planck Institute for Meteorology) and Felix **Schenuit** (German Institute for International and Security Affairs) **Conceptual vs. actual use of Greenhouse Gas Removal.** Critical analysis of Greenhouse Gas Removal (GGR) has focused on the consequences of actually deploying proposed technologies. As policymakers start to accept the challenge of generating negative emissions, the focus should shift to the conceptual use of GGR in national/regional mitigation pathways. A23

Geirbo, Hanne Cecilie (University of Oslo), Hanne **Johnsrud** (Link Arkitektur) and Ida Nilstad **Pettersen** (Norwegian University of Science and Technology) **Exploring diverging visions of the future city using the tree as method.** This paper will use street trees as an entry to exploring diverging visions of future cities, such as the historically aware city, the technical city, the ecological city, and the aesthetic city, and to discuss how such visions are articulated and negotiated in street transformation projects. D01

Gerber, Alexander (Rhine-Waal University / INSCICO) **Rethinking openness in science: systemic implications of reintermediation replacing mechanisms of transparency.** This paper introduces the new model of "Reintermediation" in Science Communication, replacing traditional "gatekeeping" in a more systemic context of RRI. New 'pseudo-intermediaries', cultivated by institutionalised science, redefine issues of openness, transparency, and accountability of science. D03

Gilbert, Paul (University of Sussex) **Geocapital: geological expertise, financialised valuation & extractive industry frontiers.** This paper examines the incorporation of financial valuation techniques into the geosciences and geological education. It traces the impact of particular mineral deposit valuation models on patterns of extractive industry exploration and the expansion of 'geocapitalism'. A07

Gill, Natalie **Can the STS scholar speak? Or what are the conditions necessary for telling stories in academia?** This paper considers the question posed by the title in two context: writing about political events in South Africa, and writing as an independent academic. Thinking these contexts together will help to open up the ways in which worlds do politics and say something about what's at stake. A13

Giraud, Eva (Keele University), Eleanor **Hadley Kershaw** (University of Nottingham) and Richard **Helliwell** (University of Nottingham) **Abundance in the Anthropocene.** This paper contrasts three cases: bed bugs, hookworms, and antibiotic resistant microbes, which have flourished intimately with(in) humans as other lifeforms decline, in order to situate abundance, attachment and affect as constitutive elements of the Anthropocene that require new modes of relating. A15

Givati, Assaf (University of Portsmouth) **The bargaining of professionalism in emergency care practice: NHS paramedics and higher education.** This article explores the impact on professional practice of reforms to the paramedic profession in the UK including the academization of training in order to accommodate for enhancing paramedics' public health roles and ability to utilize technological advancements and medical interventions. F02

Glesner, Colin (University de Liège) **Co-inventing a participatory "return of experience" digital platform for post-crisis management in Belgium.** Our post-industrial societies are confronted with evolving crises. To learn from them and increase sociotechnical systems' resilience, this paper assesses how crisis actors can build and appropriate a digital return of experience platform. E01

Göbel, Claudia (European Citizen Science Association / Museum für Naturkunde) **Broadening ideas of interoperability in citizen science.** A practical example of engaged STS: a case study presenting stakeholder analysis as exploratory tool for identifying and highlighting actors and knowledge practices neglected in ICT standardisation in the field of citizen science. C23

Goisauf, Melanie (University of Vienna) and Susanne **Oechsner** (University of Vienna) **Citizens' negotiations of information, value and reciprocity in the biobank context.** Based on empirical data gathered from public engagement events addressing biobanking in Austria, this paper elaborates how citizens assign value to biomaterials and data, and how they conceptualize the relationship between participants and biobanks in terms of reciprocity and care. C03

Goldsworthy, Chris (University of Oxford) **Meeting the genome half way: entangled agency where the genome meets the clinic.** National efforts to compile Whole Genome Sequence (WGS) data has led to novel research - clinical hybrids. Drawing on ethnographic observations at the coal-face of this hybrid entanglement this paper attempts to make sense of the transformation of Macro genomic data to individual patient diagnosis. C26

González-Santos, Sandra P. (Universidad Anahuac) **Conferences: tracking shifts in disciplinary boundaries and professional hierarchies.** This paper tracks the shifts and negotiations of disciplinary boundaries and professional hierarchies performed at conferences, seeking to highlight the importance of conferences as sites where ART, as both a field and an industry, is being created. C02

Goodwin, Dawn (Lancaster University) **The art of description in establishing failures in healthcare.** This paper examines the work involved in replacing a dominant description with an alternative. Drawing on the Morecambe Bay Investigation, this paper traces how descriptions weaken or gather force as they travel through different forums and processes, and are presented to different audiences. B11

Gore, Oz (University of Leicester) **Revisiting Callon's Singular Statements: is public management knowledge performative?** This paper revisits Callon's reliance on the semiotic emphasis on Singular Existential Statements to ask about the 'scientificality' of management accounting, and by consequence the performativty of economic knowledge in the public sector. G04

Gormally, Alexandra (Lancaster University) **Energy from magma: the emergence of a new 'science infrastructure'.** This work considers a new speculative geological energy resource; energy (electricity) from magma. It considers the role of different geological knowledge, framings of risk and innovation and how this new energy frontier fits into existing socio-technical framings of what an energy system should be. A07

Gorman, Rich (University of Exeter) and Gail **Davies** (University of Exeter) **"My genes are in mice": intimate encounters in co-clinical trials.** See **Davies**, Gail.

Goulden, Murray (University of Nottingham) **"Click here to delete the family group": 'smart' taxonomies and domestic life.** Realising the 'smart home' vision requires the integration of domestic life into the global digital economy. This talk interrogates current efforts by Google and Amazon to apply taxonomies of family life which are amenable to technologies of commerce. A03

Gramelsberger, Gabriele (RWTH Aachen University) and Dawid **Kasprowicz** (RWTH Aachen University) **Shaping haptics, meeting humans: data-clustering algorithms in human-robot-collaborations.** Data-Clustering algorithms are essential in human-robot-collaborations. However, they have been treated marginally so far when it comes to the social dimension of robots. The paper shows how technical and social dimensions intertwine in the modeling of haptics in human-robot collaborations. A27

Granell, Carlos (Universitat Jaume I) and Manuel **Portela** (Universitat Jaume I) **Geographies of light, affective atmospheres and digital sensory enhancements.** After deploying a digital lighting intervention, we analyze the effects of light atmospheres in a public place. We explore the potentials of creative digital applications to generate sensory and body encounters, memories and reactions with shared spaces and public infrastructure. A28

Granja, Rafaela (University of Minho) and Helena **Machado** (University of Minho) **Assembling and disassembling ethical controversies of familial searching: the cases of the UK and Poland.** This paper explores the uses of familial searching both for criminal investigation and for civil identification purposes. Drawing on the cases of UK and Poland we use the concept of (dis)assembling ethical controversies to understand the the multiple socially legitimate uses of genetic technologies. C01

Granja, Rafaela (University of Minho), Helena **Machado** (University of Minho) and Filipa **Queirós** (University of Minho) **The (in)visibilities of race through Forensic DNA Phenotyping technologies.** The paper discusses the performative processes in which race is continuously being built within recent DNA technologies and explores the (in)visibilities of race through the perspectives of professionals who accompany directly the automatic exchange of genetic profiles to fight cross-border crime. E08

Gray, Jonathan (King's College London) **Death, taxes and gases: the issuefication of data and the datafication of issues.** How are digital technologies redistributing practices of making data public and making public data? This paper reflects on several cases where transnational data infrastructures become "matters of concern" around deaths, taxes and gases, leading to interventions and alternatives. C16

Greco, Cinzia (University of Manchester) **When technology meets nature in the production of gendered bodies: the case of breast re/construction.** In this presentation, I explore the way in which cosmetic and reconstructive surgery of the breast contribute to naturalize the breast as an anatomical part deemed to distinguish women from men. I analyse how the "obvious" naturality of the breast is used to justify complex surgical operations. F08

Greenhalgh, Trisha (University of Oxford) and Alex **Rushforth** (University of Oxford) **Precision asthma medicine in primary care: a controversy study.** This paper traces efforts to roll-out a new diagnostic - FENO - into primary care in the NHS. Configured as part of a package relating to precision asthma medicine, we trace how different interest groups have promoted, shaped, and contested FENO and precision asthma medicine more broadly. C26

Greeson, Emma (University of California, San Diego) **Producing commodities and gifts in the trade of used clothing: production-oriented and item-oriented models in English charity shops.** This paper shows how commodities and gifts are produced alongside each other in the same spaces, using ethnographic data from English charity shops. Donated items are processed via two contrasting models. A production-oriented approach produces commodities; an item-oriented approach produces gifts. G02

Griffiths, David Andrew (University of Surrey) **Intersex and the ethics of exclusion: choosing, postponing and cutting.** In this paper I read infant genital surgeries through Barad's agential realism. Choosing to perform surgery or not are different kinds of agential cuts. I will align Barad's ethics of exclusion Morland's ethics of uncertainty to think of choosing surgery beyond "doing something" vs "doing nothing". F08

Grommé, Francisca (Goldsmiths, University of London) and Evelyn **Ruppert** (Goldsmiths, University of London) **A citizen data app as an emergent para-site for official statistics: imagining citizens as more than data collectors and subjects.** We discuss how a para-site emerged around the experimental design of a citizen data app for official statistics, potentially enabling citizens to participate as co-producers of statistics. We furthermore highlight three aspects of this para-site relevant for producing ethnographic imaginations. C16

Grosman, Jérémy (Research Center for Information Law and Society) **Mathematical models and computer simulation in transportation economics.** The present paper proposes to explore the developments of the mathematical modelling of transportation economics and its impacts in framing the discussions and the descisions taking place in urban planning. B08

Groves, Christopher (Cardiff University), Karen **Henwood** (Cardiff University) and Nick **Pidgeon** (Cardiff University) **Creating energy encounters with experts: a cultural probes-based approach.** Expert interviews in STS are often used to elicit implicit imaginaries and values. In relation to expert interviews around anticipated energy transitions, we show how the use of 'cultural probes' can not only help elicit assumptions about values, but also encourage reflexivity towards them. A11

Guerrero C, Javier (Instituto Tecnológico Metropolitano) **Narcosubmarines: outlaw innovation and maritime interdiction in the war on drugs.** I present an overview of the co-evolution of outlaw innovations by drug traffickers, specifically the narcosubmarines and the techniques and technologies used by the Colombian Navy to counter smugglers actions. D04

Gugganig, Mascha (Technical University Munich) **Cultivating engagement with 'citizens' and 'consumers' - doing a citizen participation forum on vertical farming at a European food innovation consortium.** This paper discusses what kind of European citizen and/or consumer is co-produced with a technoscientifically innovated European food system by discussing the EU consortium EIT Food and the social scientist's role in convening a citizen participation forum on vertical farming as part of EIT Food. **A25**

Gunnarsdóttir, Kristrún (University of Surrey), Kjetil **Rommetveit** (University of Bergen) and Niels **van Dijk** (Vrije Universiteit Brussel) **Make way for the robots! Roles for autonomy in building a European public-private partnership.** This talk describes an autonomous robotics imaginary and its implementation in a techno-epistemic network across science, industry, politics and law. The roadmap is the main metaphor and organising tool, aligning heterogeneous actors along a common path towards a future European robotic society. **F11**

Gupta, Rajni (Central University of Gujarat) **Issues of public policies in science museum's education: a case study of Gujarat Science City in India.** This research paper has an interesting discussion between science and society issues in knowledge domain. **F06**

Gustafsson, Karin M (Örebro University) **Why is there early career scientists in IPCC?** For IPCC, the key to create become trustworthy has been to enroll world leading scientists. With AR5 IPCC enrolled early career scientists to assist as chapter scientists. This paper explores the role created for early career scientists and how this role is to be understood in terms of credibility. **A08**

Hacking, Nick (Cardiff University) **Critical challenges to theorising public engagement with the design and deployment of hybrid forums: empirical evidence from Waste-to-Energy contestation in Wales.** Energy-from-Waste governance is highly contested with particular concerns over technologies and health risk. A comparative analysis of two highly constrained hybrid forums offers new explanations for the gulf between aspirations for public engagement and the reality of outcomes on the ground. **D02**

Hadley Kershaw, Eleanor (University of Nottingham), Eva **Giraud** (Keele University) and Richard **Helliwell** (University of Nottingham) **Abundance in the Anthropocene.** See **Giraud**, Eva.

Hadley Kershaw, Eleanor (University of Nottingham) **Co-production, intervention and experimentation in science governance: STS and Future Earth.** This paper explores STS intervention in the governance of global environmental change (GEC) research, considering the author's own co-productive intervention in Future Earth (a major international GEC research initiative) and the forms of STS intervention already taking place in that context. **C14**

Hagedoorn, Berber (University of Groningen) and Sabrina **Sauer** (University of Groningen) **Telling stories about (re)search: research practices reconfigured by digital search technologies.** This paper presents insights from ethnographic data collected during a user study investigating what happens when exploratory search software and (digital) humanities scholars meet. Conclusions focus on how search software reconfigures research practices, outcomes and perceptions of expertise. **E03**

Hahn, Charles (University of Washington), Andrew **Hoffman** (University of Washington), Sarah **Inman** (University of Washington), David **Ribes** (University of Washington) and Stephen **Slota** (University of California, Irvine) **Inciting infrastructural inversion: modes of engagement in the ethnography of data-intensive science.** We reflect on a recurrent feature of our ethnographic studies of the sciences that we call "inciting infrastructural inversion" (3I). 3I is the symmetrical reflection of the invisible and marginal aspects of actors' work back and forth between actor and analyst in ways that shape and entangle both. F07

Hajer, Maarten (Urban Futures Studio), Jesse **Hoffman** (Utrecht University) and Peter **Pelzer** (Utrecht University) **Techniques of futuring: imagining sustainable cities of tomorrow.** Building on recent writings on transdisciplinary science, this paper calls for a better understanding of the actual acts through which the future becomes represented in social and material forms and how this affects the relation between public deliberation, exchange and social inclusion. F10

Halauniova, Anastasiya (University of Amsterdam) **Curated detachment: how to translate aesthetic experiences of 'ugly socialism' into 'beautiful modernism'.** .The paper explores analytic possibilities of the concept 'detachment'. By building on interviews with architects, activists, and city officials of the city of Wroclaw, Poland, the paper traces the ways in which estrangement can be, literally, 'curated' in the urban politics. B05

Hälterlein, Jens (University Freiburg) and Linda **Madsen** (University of Freiburg) **Managing the "wave of helpers": socio-technical solutions for societal resilience.** This paper offers a reflexive, praxiographic account from within a collaborative applied research project, it attends to the changing role of the citizen in the federal move towards resilience, and it discusses contemporary socio-technical interventions in emerging volunteering structures. A24

Handler, Reinhard Anton (Karlstad University) **Organising control: a study of the collaborative production of free software.** This paper discusses the importance of control in free software. Its main argument is that while software rests on a computational logic the impact on organisations is ambiguous. Computational control allows surveillance but embedded in free software it forms the basis for free collaboration. C20

Hanke, Christine (University of Bayreuth) and Susanne **Bauer** (University of Oslo) **Locating the data centre. Attending to place in the study of cloud computing.** See **Bauer**, Susanne.

Hanmer, Clare (University College London), Charlotte **Johnson** (University College London) and Michelle **Shipworth** (University College London) **Heating controllers as boundary objects between homes and energy infrastructures.** This paper explores UK household experiences of heating controllers that are interacting with the supply infrastructure. The focus is on the heating controller as a "boundary object" between the smart networked future envisioned by the designers and the bounded home experienced by the residents. A11

Hansen, Meiken (Technical University of Denmark) and Sophie **Nyborg** (Technical University of Denmark) **Smart solutions, private households and control; a case study of experimental projects.** The concept of 'control' of energy consumption is an important phenomenon on the smart grid arena, yet it remains understudied. Through an ANT approach this paper traces interactions relating to control in three smart grid cases, thus enhancing our knowledge on the current energy system transition. A11

Haran, Joan (Cardiff University) **"I would rather be a cyborg than a goddess": the meeting place/time of the spiral dance.** Haraway's "Cyborg Manifesto" concludes: "Though both are bound in the spiral dance, I would rather be a cyborg than a goddess." This paper interrogates the figure of the spiral dance as a meeting place/time for the cyborg and the goddess and for feminist studies of technoscience and ecofeminism. B09

Hargreaves, Tom, Rob **Bellamy** (University of Oxford), Jason **Chilvers** (University of East Anglia) and Helen **Pallett** (University of East Anglia) **Why practices and atmospheres of participation matter: insights from a democratic experiment in distributed deliberative mapping.** See **Bellamy**, Rob.

Harms, Agnes (Swiss Federal Institute for Forest, Snow and Landscape Research) and Tobias **Schulz** (Swiss Federal Institute for Forest, Snow and Landscape Research) **How procedural fairness influences the formation of willingness to cooperate in Switzerland's energy transition.** Cooperation in informal participatory processes enables formal approval procedures to be implemented more efficiently. We investigate how participants willingness to cooperate arise in informal processes. We find that cooperativeness depends on fair process performance and the level of involvement. D02

Harrison, Katherine (Lund University) **The "invisible work" of data management systems in Big Science: following the development of the European Spallation Source.** How is data management organised at a Big Science facility and what difference does this make to the knowledge produced there? This paper explores data management at the European Spallation Source as an entanglement of people, organisation and technologies. C20

Hartmann, Eva (University of Cambridge), Janja **Komljenovic** (Lancaster University) and Adrian **Mackenzie** (Lancaster University) **Higher education and the labour market infrastructure in the digital economy.** This paper focuses on social media platforms, universities and the labour market. Specifically, it examines (i) how social media companies motivate actors to produce data, (ii) what kind of social relations they structure with the infrastructural design, (iii) what are the consequences. G03

Hartstein, J. (German Centre for Higher Education Research and Science Studies) **Recognition by numbers: who shapes algorithmic science evaluation?** The use of quantitative performance indicators is heavily disputed in the scientific community. However, the circumstances of computation of those indicators also deserve a further look. Actors and infrastructures currently await further investigation. G03

Hasted, Holly Alexa (UiT The Arctic University of Norway) **A beacon for science? The soft power of regional research museums in a post-fact era.** By situating Tromsø University Museum (TMU) within North Norwegian and circumpolar contexts, and exploring its role in the production and dissemination of scientific research, I argue that TMU reinforces Norwegian soft power in the Arctic. F06

Hausstein, Alexandra (Karlsruhe Institute of Technology) and Andreas **Lösch** (Karlsruhe Institute of Technology) **Clashing futures as drivers of socio-technological change.** Our paper presents conceptual reflections on how productive clashes of competing futures shape processes of innovation and sociotechnical change. How do futures interact with each other, resulting in processes of assembling, recombining and integrating certain elements of competing futures? D01

Hayes, Enda (University of the West of England) and Aleksandra **Michalec** (University of the West of England) **Can GIS help with the equitable targeting of "smart" interventions?** The aim of this paper is to challenge the notion of "climate justice" in relation to the smart metering interventions. Using mixed-method approach, the paper provides a perspective on smart meters as an intervention for both "highly capable" and "highly disadvantaged" neighbourhoods. C05

Hector, Philip (Aalto University) and Mikko **Jalas** (Aalto University) **Turning utopias into material: spaces of cultural and technical experimentation in Helsinki.** This paper explores the forming of self-organized, open laboratories from the initial and variegated expectations of actors to an established practice. The study is based on three cases from Helsinki, which aim at decentralized cultural production and low-tech sustainability experimentation. B06

Heinemann, Torsten (Universität Hamburg), Larissa **Fischer** (Universität Hamburg) and Bettina **Paul** (Universität Hamburg) **Modes of seeing and socio-technical visions in the research field of truth verification.** See **Fischer**, Larissa.

Heitlinger, Sara (Newcastle University), Simran **Chopra** (Northumbria University), Rachel **Clarke** (Northumbria University) and Adrian **Clear** (Northumbria University) **Citizen led visions of the future smart city from grassroots urban agriculture.** See **Chopra**, Simran.

Helliwell, Richard (University of Nottingham), Carol **Morris** (University of Nottingham) and Sujatha **Raman** (University of Nottingham) **Making chemical infrastructures (in)visible: environmental imaginaries and the environmental sciences of antimicrobial resistance.** We explore the environmental imaginaries shaping the practices and places through which the field of environmental AMR attempts to make visible antimicrobial pollutants, resistant bacteria and genes. A12

Helliwell, Richard (University of Nottingham), Eva **Giraud** (Keele University) and Eleanor **Hadley Kershaw** (University of Nottingham) **Abundance in the Anthropocene.** See **Giraud**, Eva.

Hellstrand, Ingvil (University of Stavanger) **Travelling together: bioships in science fiction.** This paper interrogates the science fictional idea of bioships as an imagined mode of transport that brings together (human/humanoid) pilots and biotechnological ships in ways that demand a reworking of subject-object relations, collaboration and conventional power structures. C17

Hemminger, Elke (Protestant University of Applied Sciences Bochum) and Michael **Waltemathe** (Ruhr-University Bochum) **Beyond moral judgement: enhancing technology awareness of students in the social sciences and humanities.** Lack of knowledge and a tendency towards moral judgement impairs students in the humanities and social sciences in their participation in the societal discourse about science and technology. A novel university teaching program based on empirical data is designed to address this issue. W01

Henry, Jade Vu (UCL Institute of Education), Martin **Oliver** (UCL Institute of Education) and Niall **Winters** (University of Oxford) **Situating design in a mobile phone research intervention to train Kenyan health workers: the design-reality gap as a lateral concept.** I deploy the "theory of design-reality gaps" as a lateral concept to situate design in a globally-distributed mobile phone intervention for Kenyan health workers. This generates more nuanced understandings of gaps, sustainability, scalability, materiality, project failure and desired social change. **B07**

Henwood, Karen (Cardiff University), Christopher **Groves** (Cardiff University) and Nick **Pidgeon** (Cardiff University) **Creating energy encounters with experts: a cultural probes-based approach.** See **Groves**, Christopher.

Herberg, Jeremias (Institute for Advanced Sustainability Studies) **Co-Creation and The Problematic of the Coal-Phase Out in Lusatia.** The paper discusses (1) the rise of institutional interstices as an ambivalent phenomenon, and (2) uses the example of the coal phase out in Germany as a current issue that is characterized by interstitial arenas, and that may benefit from a more intentional view on their transformative capacity. (3) The concept of co-creation is used to discuss a form of policy advice that leverages institutional interstices while remaining critical of the discourse of interstitial integration. **C21**

Herbrand, Cathy (De Montfort University) and Nolwenn **Bühler** (University of Neuchâtel) **Powering life: exploring the bio-objectification of mitochondria in reproduction.** See **Bühler**, Nolwenn.

Herbrand, Cathy (De Montfort University), Catherine **Coveney** (University of Sussex) and Nicky **Hudson** (De Montfort University) **Genetics, heritability and family histories: materialising the healthy egg donor in clinical screening practices.** See **Coveney**, Catherine.

Herold, David Kurt (Hong Kong Polytechnic University) **Closing the circle: Dave Eggers trumps Orwell in China.** In 2014 the Chinese government announced a new policy initiative to create a nation-wide credit-rating system based on an amalgamation of traditional financial data and social media data mining, which will establish a surveillance system scary in its reach but with an absent Big Brother. **E07**

Herrera, Rocio Juliana (Karlsruher Institut für Technologie) and Alena **Israel** (Karlsruhe Institute of Technology) **Challenging water-energy governance: the mega-hydropower project in Río Marañón and its contestation.** This paper argues that Political Ecology and Energy Justice are suitable frameworks for analysing hydropower projects. It focuses on the analysis of energy governance and the underlying formal and informal driving and contesting forces in the water-energy governance of the river Marañón in Perú. **D02**

Hesjedal, Maria Bårdsen (Norwegian University of Science and Technology) **Bio-objectification and interdisciplinarity: the case of a Norwegian project on tissue engineering.** The paper examines whether meetings in a Norwegian interdisciplinary research project on tissue engineering creates novel relations and collaborations. Using ethnographic methods, I explore how the process of bio-objectification plays out in the collaboration and digitalization in the project. **C09**

Hess, Andi (Arizona State University) **Building interdisciplinary capacity for responsible research and innovation: the Interdisciplinary Translation initiative.** Interdisciplinarity is often proposed as a method for bringing more voices into "The Room Where it Happens." This paper compares existing approaches for interdisciplinary team science and proposes a new method, Interdisciplinary Translation, for increasing the effectiveness of interdisciplinary teams. **E06**

Heuer, Hendrik (University of Bremen) and Andreas **Breiter** (University of Bremen) **Trust and machine learning.** See **Breiter**, Andreas.

Hickethier, Vera (Helmholtz Centre for Environmental Research GmbH - UFZ), Nona **Schulte-Römer** (Helmholtz-Centre for Environmental Research GmbH – UFZ) and Max **Söding** (Helmholtz-Centre for Environmental Research GmbH – UFZ) **Sustainable chemistry: concept, actors and activities.** The idea of 'Sustainable Chemistry' is not new, but has recently received new momentum. In May 2017, the German Environment Ministry and the German Federal Environment Agency (UBA) launched the ISC3 - International Sustainable Chemistry Collaborative Centre to help 'shape transformation.' But how? **A12**

Hilberg, Eva (University of Sheffield) and China **Mills** (University of Sheffield) **'Built for expansion': conditions of possibility and sites of performance for the WHO's mhGAP diagnostic algorithm.** This paper traces how the WHO's mhGAP diagnostic algorithm is the product of strategic collaborations, historical epistemological alignments, and ongoing performative enactments of a particular 'movement' for global mental health that overlooks alternative epistemologies in relation to distress. **C25**

Hine, Christine (University of Surrey) **Being reflexively ethnographic in the face of an opaque Internet of Things.** STS ethnography of the Internet of Things in use faces the tendency of "users" to forget the technologies until it goes wrong, and uncertainty on all sides on what the technology actually does. This paper explores strategies for reflexive ethnography in the face of this silence and ambiguity. **F07**

Hintz, Arne **Digital citizenship in the scoring society.** What are the implications of the 'scoring society' for activism and citizenship? How does the increasing use of scoring systems affect notions of digital citizenship that are based on active engagement with digital environments and the self-enactment of citizens through digital tools? **E07**

Hirsbrunner, Simon David (University of Siegen) **Overshooting futures: investigating digital representations of scenarios with climate change.** The paper conceptualizes 'overshooting' as a metaphor for understanding, conceptualizing and analyzing public imaginations. Focusing on digital mappings of sea-level rise and according debates, I investigate if and how public imaginations of futures with climate change may be (re)constructed. **F10**

Hirth, Steffen (Sustainable Consumption Institute, University of Manchester) **Food that matters: exploring the material-discursive boundaries between animal-sourced and vegan food practices.** In need to 'feed the 9 billion', producing less meat and dairy is still largely overlooked as an alternative to further intensification. This paper explores how boundaries between animal-sourced and vegan food practices are drawn and how they can inform debates on (responsible) productivity. **A30**

Hitchings, Russell (University College London), Michelle **Shipworth** (University College London) and Catherine **Willan** (University College London) **'One is hypothetical and one is real...'. Accounting for "error" in low-carbon building performance.** Discourse analysis can reveal how actors account for "error" (Gilbert & Mulkay, 1984) in low-carbon building performance. It uncovers opposing repertoires of "theory" and "reality", and explores how, when and why these do - or do not - meet. The basis is empirical case study data from UK buildings. C19

Hiteva, Ralitsa (University of Sussex), Saurabh **Arora** (University of Sussex) and Fiona **Marshall** (University of Sussex) **The urban food-water-energy nexus as an ecology of practices.** See **Arora**, Saurabh.

Ho, Chih-hsing (Academia Sinica) **Forming a common good? Ideas and challenges of communal data sharing.** This paper analyses ideas and challenges of communal data sharing by studying how a community is formed and a collective decision is made. E07

Hockenhull, Michael (IT University of Copenhagen) **Disconcerting (big) data futures through data sprints.** This paper explores the co-construction of public imaginations of the future related to technology and (big) data taking place by limited publics on a mainly discursive basis, and suggests a novel method assemblage, the data sprint, as a way to produce disconcertment about these imaginations through practice. F10

Hocknell, Suzanne (Newcastle University) **Antimicrobial resistance and food policy: beating, meeting or greeting microbial life?** In this paper, I unpack the ways in which antimicrobial resistance policies are entangled with maintaining food systems that rely on globalised cheap meat, and begin to explore possibilities for eating-well as an ecological living with, in, and amongst, microbial communities. C28

Hoffman, Andrew (University of Washington) **Situated valorizations: accounting for domain-industry collaborations on the cloud.** Amidst the so-called data deluge, industry cloud providers are emerging as key partners for domain scientists seeking to expand computational capacity. This gives rise to novel forms of currency and (ac)counting practices, producing what I call 'situated valorizations' of resources and engagements. G03

Hoffman, Andrew (University of Washington), Charles **Hahn** (University of Washington), Sarah **Inman** (University of Washington), David **Ribes** (University of Washington) and Stephen **Slota** (University of California, Irvine) **Inciting infrastructural inversion: modes of engagement in the ethnography of data-intensive science.** See **Hahn**, Charles.

Hoffman, Jesse (Utrecht University), Maarten **Hajer** (Urban Futures Studio) and Peter **Pelzer** (Utrecht University) **Techniques of futuring: imagining sustainable cities of tomorrow.** See **Hajer**, Maarten.

Hogle, Linda (University Wisconsin-Madison) **Authenticating manufactured human cells for regenerative medicine.** Upscaling cell manufacturing entails standardization of processes and cells, yet line specificities must be authenticated to ensure that products are market-ready and commercially valuable. Authentication practices in cell industrial design are analyzed, with unanticipated effects. B01

Hollin, Gregory (University of Leeds) **Never been modern? Hailing autism in evolutionary psychology and science and technology studies.** In this talk, I think through the persistent hailing of autism in relation to the non-modern and the more-than-human. In particular I ask about the mobilization of autism in theoretical work in STS and enquire into the productive and potentially violent consequences of these encounters. B11

Hong, Wen-Ling (National Kaohsiung University of Science and Technology) and Jr-Ping **Wang** (National Kaohsiung University of Science and Technology) **When engineering practices encountered the unacceptable, unpredictable, unthinkable: how STS can shed light on engineering education reform in Taiwan.** The 2014 Propylene explosion revealed conventional practices of several engineering disciplines entangled thus created grave uncertainties for catastrophe. STS studies point out robust technical communication and information sharing is crucial, and engineering education reform can tackle this issue. C12

Hopman, Roos (University of Amsterdam) **Facing the unknown suspect. An inquiry into 'the face' generated through Forensic DNA Phenotyping.** The aim of this paper is to dissect the face (or rather, faces) of the unknown suspect that come into being through forensic DNA phenotyping, and by thinking with these four faces examine the ways in which race comes to figure in this practice. E08

Hor, Suyin (University of Technology Sydney) and Jessica **Mesman** (Maastricht University) **Sticky business: techniques to engage with the viscosity of practices in healthcare.** In this paper we discuss the sticky middle ground between fluid and fixed characteristics of healthcare practices. We argue that this sticky business is productive and has potential for practice optimization. We will show how the method of video-reflexivity contributes to this role in several ways. C04

Horne, Ralph (RMIT University) and Lauren **Rickards** (RMIT University) **Exploring problem-centred smart / digital urbanism in Australia.** Deriving a typology for problem-centred digital urbanism set around climate change, equity and accountability, we argue for transitioning to be oriented around actual existing urban problems. Australian examples are introduced in a context of smart/digital urbanism policies and possibilities. C13

Horstman, Klasien (Maastricht University), Mare **Knibbe** (Mastricht University) and Sanne **Raap** (Maastricht University) **Tackling the problem of reach: a neighborhood knowledge collective in-the-making.** In this paper we will provide an analysis of a citizen's knowledge collective in-the-making. The so-called knowledge laboratory changes locations and relations of knowledge exchange; from city centre to neighbourhood, from dissemination to conversation and from matters of fact to matters of concern. A05

Hoyng, Rolien (Chinese University of Hong Kong) **Fintech apps and data-driven irrationalities: speculation in the face of precarity.** This paper analyzes financial-technological apps and the (ir) rationalities of data-centric speculation. It draws on interviews with stakeholders and app analysis. It further probes tactics of data activism to conjure publics and tell stories that enable relations of solidarity. C16

Hradcova, Dana (Faculty of Humanities Charles University), Radek **Carboch** (Masaryk University, Charles University), Dita **Jahodová** (Faculty of Humanities, Charles University) and Michal **Synek** (Charles University / Masaryk University) **In between silence and re-describing matters of care: an attempt at ethnography of cognitive dis/ability.** See **Carboch**, Radek.

Hu, Su **Reading examinations on Tibetan maps 1886: cartographic practices and the displacement of ontological world in modernity.** The encounter between the geographic knowledge in imperial China and Western science is more than a transformation towards more rigor or more precision. The encounter underlies a shift between different ontological worlds. **A13**

Huang, Yu-ling (National Cheng-Kung University) **Negotiating bioethics of reproductive donation in Taiwan and Japan.** This short impulse presentation leads into the roundtable discussion. It juxtaposes the negotiation of ethical concepts - such as reproductive right, health risk management, and identity - of stakeholders involved in reproductive donation in Taiwan and Japan. **C03**

Hudson, Nicky (De Montfort University), Catherine **Coveney** (University of Sussex) and Cathy **Herbrand** (De Montfort University) **Genetics, heritability and family histories: materialising the healthy egg donor in clinical screening practices.** See **Coveney**, Catherine.

Hui, Allison (Lancaster University) **Coordinating arrays of practice or managing intermittent oligoptica? Reflections from the intersection of households and home heating, STS and practice theory.** This paper contributes to understandings of the coordination of household practices by developing the concept of arrays of practices, extending the existing concept of oligoptica, and raising questions about the implications for methodologies and interventions that accompany each. **C07**

Huizenga, Sabrina (Erasmus University Rotterdam), Roland **Bal** (Erasmus University Rotterdam) and Hester **van de Bovenkamp** (Erasmus University Rotterdam) **Urban labs as resilience practices.** See **Bal**, Roland.

Humalisto, Niko (Finnish Evangelical Lutheral Mission) and Maria **Akerman** (VTT Technical Research Centre of Finland) **Manure and material politics of resource-making: the case study of Biovakka biogas company.** See **Akerman**, Maria.

Hustinx, Lesley (Ghent University) and Nathan **Wittock** (Ghent University) **EU blood supply risk governance and MSM deferral in Europe: longitudinal case study of sociotechnical imaginaries mobilized in the public debate on the deferral of Men who have Sex with Men in Belgium.** This paper discusses the evolution of sociotechnical imaginaries mobilized in the debate on MSM donor deferral in Belgium between 2003, the first Blood Directive, and 2017, adoption of 12 month deferral. It highlights the coproduction of EU epidemiological and national sociotechnical imaginaries. **G07**

Hyltegren, My (University of Gothenburg) **A fixation with quantification and the age of 18? Inscriptions in a new technology for age assessment for asylum cases in Sweden.** A controversial technology for age assessment of asylum seekers was implemented in Sweden in 2017. By deconstructing the design, and combining insights from STS with studies of social constructions of children and age demarcations, the assumptions inscribed in the technology are shown. **G01**

Hyysalo, Sampsa (Aalto University) **The mundane and strategic work in collaborative design.** We examine collaborative design activities in a major public building project and show how these were thoroughly permeated by practical work, project pragmatics and strategic actions, and internal competences. This raises the question about interrelation between "design" and broader "design work". B07

Ibañez Martin, Rebeca (University of Amsterdam) **Prototyping a new sanitation system: socio material relations and shifting norms.** This paper ethnographically investigates what adaptations require a transition from a controlled use-site to a 'real life setting' of a decentralised sanitation system that recovers nutrients. What are the tensions? What are the bodily techniques that emerge to adapt to the new infrastructure? A04

Ilhan, Ali O. (Ozyegin University), Harun **Kaygan** (Middle East Technical University) and Sebnem **Timur Ogut** (Istanbul Technical University) **Uses of ANT in design research: towards a critical dialogue.** The paper reviews the uses of actor network theory and related terminologies in design literature in the last decade from a critical perspective, and underlines the opportunities and pitfalls towards establishing a dialogue between the two fields of STS and design. C12

Illingworth, Sam (Manchester Metropolitan University), Simon **Cook** (University of Dundee), Maria **Loroño-Leturiondo** (Manchester Metropolitan University) and Paul **O'Hare** (Manchester Metropolitan University) **Women's imagination of future, less polluted, urban environments.** See **Cook**, Simon.

Inman, Sarah (University of Washington), Charles **Hahn** (University of Washington), Andrew **Hoffman** (University of Washington), David **Ribes** (University of Washington) and Stephen **Slota** (University of California, Irvine) **Inciting infrastructural inversion: modes of engagement in the ethnography of data-intensive science.** See **Hahn**, Charles.

Inman, Sarah (University of Washington) **Agencies in the database: the role of flagging.** Database designers and archivists are central to improving natural resource management, deploying instruments and standards to achieve data interoperation. This paper explores practices and politics of making data open as a site for unpacking who data are for and what purposes they serve. C16

Irgmaier, Florian (Weizenbaum Institute for the Networked Society), Florian **Eyert** (Weizenbaum Institute for the Networked Society), Rainer **Rehak** (Weizenbaum-Institut für die vernetzte Gesellschaft) and Lena **Ulbricht** (WZB Berlin Social Science Center) **A new form of social ordering? Investigating the impact of datafication practices on regulation.** See **Eyert**, Florian.

Israel, Alena (Karlsruhe Institute of Technology) and Rocio Juliana **Herrera** (Karlsruher Institut für Technologie) **Challenging water-energy governance: the mega-hydropower project in Río Marañón and its contestation.** See **Herrera**, Rocio Juliana.

Ivanova, Dara (Erasmus University Rotterdam), Roland **Bal** (Erasmus University Rotterdam) and Iris **Wallenburg** (Erasmus University Rotterdam) **The co-laborator: place-making through laboratization practices in a living lab construction.** See **Bal**, Roland.

Jacobs, Naomi (University of Aberdeen) and Karen **Salt** (University of Nottingham) **Transformative visions of IoT: whose visions, whose rights, whose responsibilities?** Through fieldwork examining community responses to IoT, we explore experiences of multiple social actors and the structural dynamics of digital transformations. We consider whether narratives of empowerment are upheld or whether inequalities may be reinforced, and impacts on privacy and democracy. C13

Jahodová, Dita (Faculty of Humanities, Charles University), Radek **Carboch** (Masaryk University, Charles University), Dana **Hradcova** (Faculty of Humanities Charles University) and Michal **Synek** (Charles University / Masaryk University) **In between silence and re-describing matters of care: an attempt at ethnography of cognitive dis/ability.** See **Carboch**, Radek.

Jalas, Mikko (Aalto University) and Philip **Hector** (Aalto University) **Turning utopias into material: spaces of cultural and technical experimentation in Helsinki.** See **Hector**, Philip.

Janasik-Honkela, Nina (University of Helsinki), Mika **Pantzar** (University of Helsinki) and Sari **Yli-Kauhaluoma** (University of Helsinki) **Imagining human-centric data futures: an analysis of the visual conventions of personal finance, health and integrated data management tools.** Recently, it has been claimed that humanity is moving towards a presentational mode of discourse. We analyze the visual conventions used in selected life management tools, and suggest that the imaged futures of these visualizations assume a human-centric and individualistic view of the data citizen. G05

Jarke, Juliane (University of Bremen) and Raoni **Rajão** (Universidade Federal de Minas Gerais) **In data we trust? Negotiating data assemblages in the implementation of Brazil's climate targets.** The paper describes the dilemmas faced in the process of transitioning between two networks of trust: a well-established "data assemblage" (Kitchin, 2014) shared by the scientific community, and governmental data assemblage that contained representations that at first were at odds with the former. A06

Jasinski, Andrzej (University of Warsaw) **Innovation systems and the innovation market: what relations?** This is an attempt to find relations between sectoral and technological innovation systems, and the innovation market. The firm's perspective predominates. A special attention is devoted to the innovation market, its structure and specific features, poorly developed in the world's literature. V06

Jauho, Mikko (University of Helsinki) and Minna **Santaoja** (University of Tampere) **The introduction of sustainability into Finnish nutrition recommendations: a new dietary ontonorm in the making?** We analyse the introduction of the sustainability perspective into Finnish nutrition recommendations using Annemarie Mol's concept of ontonorms as an analytical tool. We present sustainable eating as a novel but problematic type of ontonorm and ask what kind of bodies and values it implies. C28

Jeevendrampillai, David (University College London) and Aaron **Parkhurst** (University College London) **Towards an anthropology of gravity: body and affect in the extra-terrestrial.** Borrowing from theories within Anthropology, experiments in human cognition, and published evidence from living aboard space-stations, this paper examines the force of Gravity as a profound nexus of social relations, working intimately between the human body and its ability to generate emotion. A17

Jerak-Zuiderent, Sonja (Academic Medical Centre, University of Amsterdam) **Caring for science/worlds in the making - philosophy's involvement in primary education.** Matters of care involve partaking in struggles to make other worlds possible - not knowable, visible, countable but possible. Studying philosophy's involvement in changing primary education, I explore how attending to the work of matters of care complicate matters of capitalisation and factisation. F04

Jimenez, Andrea (University of Sheffield) **Conceptualising the individual in the innovation discourse: implications for development.** This work-in-progress research is exploring what happens when the individual in the innovation discourse is framed from a specific perspective of economic growth, and whether a broader perspective is needed to expand our understanding of the impact of innovation in the discourse around development. C15

Job, Kathleen (Cardiff University) **Meeting uncertainty in next generation clinical genetics.** Incorporating technological advancements into UK clinical genetics services has increased the potential for discovery of sequence variants of unknown or uncertain significance. These clinical uncertainties are discussed and interpreted in practices of shared decision making between professionals. F02

Jochum, Georg (Technical University of Munich) **Green futures between respecting and transgressing boundaries.** The presentation discusses to what extent current visions of sustainable, green futures turn away from the Baconian project of the "enlarging of the bounds of human empire" by technical mastery of nature, or continue this project and radicalize it. A18

Johnson, Charlotte (University College London), Clare **Hanmer** (University College London) and Michelle **Shipworth** (University College London) **Heating controllers as boundary objects between homes and energy infrastructures.** See **Hanmer**, Clare.

Johnsrud, Hanne (Link Arkitektur), Hanne Cecilie **Geirbo** (University of Oslo) and Ida Nilstad **Pettersen** (Norwegian University of Science and Technology) **Exploring diverging visions of the future city using the tree as method.** See **Geirbo**, Hanne Cecilie.

Joly, Pierre-Benoit (INRA / UPEM) **What is the 'right price' for food? The French "Etats Généraux de l'Alimentation" and the attempt to tame markets.** What is the 'right price' for food? This question was at the core of the "Etats Genéraux de l'Alimentation" organised in France in fall 2017. This paper will provide an analysis of this debate and the way economics and stakeholders' arguments are mobilised and are translated into a new law. C28

Jones, Craig (Lancaster University) **Terracentric ontologies/epistemologies and the limits of thinking outside and beyond the Earth.** Terracentrism has typically been applied within astrobiology yet is relevant to STS when considering the making of outer space. I attempt to extend the term to include our ontological and epistemological positionings in relation to outer space and query whether we can escape terracentrism. A17

Jong, Lisette (University of Amsterdam), Ryanne **Bleumink** (University of Amsterdam) and Ildikó **Plájás** (University of Amsterdam) **Composite method: experimenting with the absent presence of race in film and facial composite drawing.** See **Bleumink**, Ryanne.

Josties, Jonna (Humboldt-Universität zu Berlin) **The formation of interest within innovation networks and the role of the anthropologist inside.** This paper outlines the formation of interest and cooperation efforts of innovation networks that have emerged from the Silicon Valley ethos. In addition, the responsibility and the role of anthropological work in this experimental, high-tech driven and fast moving field are explored. C04

Juhl, Joakim (Harvard STS / Aalborg University), Erik **Aarden** (University of Vienna) and Sebastian **Pfotenhauer** (Technical University of Munich) **A solution looking for a problem? Interrogating the 'innovation imperative' and the 'deficit model' of innovation.** See **Aarden**, Erik.

Jung, Joon Young (Soul National University) and Hyomin **Kim** (Ulsan National Institute of Science and Technology) **The interpretation of blood: how blood group anthropology imagined assimilation and rationalized discrimination in the colonial Korea.** This article examines how techno-scientific discourses produced a coalition between the colonizer and the colonized. Particularly, the article explores the studies of human blood types with a focus on the colonial medicine's racist implications in the Japanese Empire. E08

Jørgensen, Ask (Aalborg University) **Intervening in urban strategy.** As an apprentice in a municipal strategy office, I intervene in and co-produce planning objects to make Copenhagen more liveable. I also study the time-work and valuation-work that make the city knowable and actionable to planners. These two efforts both complement and obstruct each other. C14

Jørgensen, Bastian (IT University of Copenhagen) **Organizing algorithmic explanations.** In this paper, I explore the socio-technical arrangement in the development of an algorithm in the Danish tax administration. The paper will focus on how explanations of algorithms are both imagined and materialised, and why explanations are important when "the business world" meets "the world of IT". C20

Kagliwal, Barkha (Cornell University) **Understanding processing: Mega Food Parks and technological interactions in the Indian food system.** One solution for food wastage in India could be processing, I ask how are processing technologies shaping the food system? Using the case of Mega Food Parks, I illuminate interactions between food processing technologies, infrastructures and national policy design in changing the agri-food sector. C28

Kainiemi, Laura (Aalto University) and Kamilla **Karhunmaa** (Helsinki University) **New roles, actors and strategies seeking to influence Finnish energy policy.** This article assesses energy policy actors' evaluations of their own role in influencing energy policy in Finland. We focus on how actors attempt to develop legitimacy for specific concerns; mobilize resources to pursue their own goals; and how they evaluate their own success in such processes. D02

Kalshoven, Petra Tjitske (University of Manchester) **Of indivisible a-toms and nuclear life worlds: an ethnographic framing of socio-chemical transformations in West Cumbria.** Building on my Classics background in Epicurean materialism and on my recent anthropological research on nuclear worlds in West Cumbria, I suggest that ancient perspectives on matter, and how it brings life into vibrant being, may enrich theorising on worlds perceived as chemical meshworks. A20

Kaltenbrunner, Wolfgang (Leiden University), Sarah **de Rijcke** (Leiden University) and Ruth **Müller** (Technical University of Munich) **Filling in the gaps. The politics of interpreting academic CVs in evaluative situations.** See **de Rijcke**, Sarah.

Kama, Kärg (University of Birmingham), Aleksandra **Lis** (Adam Mickiewicz University) and Leonie **Reins** (Tilburg University) **Co-producing knowledge and publics amidst controversy: analysis of an EU expert network on unconventional hydrocarbons development.** This paper engages with the idiom of co-production and provides a more fine-grained understanding of processes through which authoritative knowledge claims and new publics are co-produced in the context of a highly politicized controversy over exploration of unconventional hydrocarbons. D02

Kang, Yunjae (Dongguk University) and Ji Yeon **Kim** (Korea University) **A history and vision of participatory scientific activities in South Korea.** This essay aims to study the history and vision of participatory scientific activities in South Korea. Especially, the emerging new type of participatory scientific activities, such as "citizen science," is focused on. C22

Karasti, Helena (University of Oulu), Karen S. **Baker** (University of Oulu / University of Illinois at Urbana-Champaign), Andrea **Botero** (University of Oulu) and Elena **Parmiggiani** (University of Oulu / Norwegian Uni. of Science and Technology) **The role of research infrastructure formation strategies in opening and closing science.** See **Baker**, Karen S..

Karhunmaa, Kamilla (Helsinki University) and Laura **Kainiemi** (Aalto University) **New roles, actors and strategies seeking to influence Finnish energy policy.** See **Kainiemi**, Laura.

Kasparek, Bernd (University of Göttingen) and Melpomeni **Antonakaki** (Technical University of Munich) **'Folded Infrastructure' two years on: what is at stake when unregulated spaces generate "best practices"?** See **Antonakaki**, Melpomeni.

Kasperowski, Dick (University of Gothenburg), Christopher **Kullenberg** and Frauke **Rohden** (University of Gothenburg) **Epistemic cultures in citizen science and humanities: distribution, epistemic subjects, programs and anti-programs.** This paper report from studies of epistemic cultures in citizen science and humanities projects. As outsiders are mobilized into epistemic cultures inclusion is conditional, minimizing the realization of volunteers as epistemic subjects. However, this cannot be controlled by owners of projects. C22

Kasprowicz, Dawid (RWTH Aachen University) and Gabriele **Gramelsberger** (RWTH Aachen University) **Shaping haptics, meeting humans: data-clustering algorithms in human-robot-collaborations.** See **Gramelsberger**, Gabriele.

Kasprzak, Michelle (Madeira Interactive Technologies Institute) and Justin **Pickard** (University of Sussex) **Views from the edge: prototyping rapid ethnographic methods in Madeira.** This paper presents research findings and reflections from a 10-day experimental ethnography conducted in and around Funchal, capital of the Portuguese island of Madeira, and the nearby coastal town of Câmara de Lobos. A13

Kastenhofer, Karen (Austrian Academy of Sciences) and Anja **Bauer** (Alpen-Adria-Universität Klagenfurt) **Identity formation and transformation in transdisciplinary scholarship: the case of Technology Assessment.** See **Bauer**, Anja.

Kaygan, Harun (Middle East Technical University), Ali O. **Ilhan** (Ozyegin University) and Sebnem **Timur Ogut** (Istanbul Technical University) **Uses of ANT in design research: towards a critical dialogue.** See **Ilhan**, Ali O.

Keller, Reiner (University of Augsburg) and Simone Ines **Lackerbauer** (University of Augsburg) **Futures in fracking: how shale gas inspires dynamic and conflicting visions.** The shale gas boom inspired actors from politics and the economy to develop long-term energy outlooks for unforeseeable timeframes through "foresight methods". Using SKAD, we seek to analyze their arguments and strategies to dominate the discourse, and the dynamics of how they change over time. D01

Kenens, Joke (SCK•CEN Belgian Nuclear Research Centre) and Ine **Van Hoyweghen** (KU Leuven) **Citizen science after the Fukushima nuclear accident: an encounter with bottom-up crisis management and post-disaster recovery.** This paper takes up citizen engagement in the field of radiation monitoring after the Fukushima nuclear accident. It explores how grassroots organizations responded to concerns of citizens and unveils the contributions bottom-up initiatives made to crisis management and post-disaster recovery. A24

Kenney, Martha (San Francisco State University) and Ruth **Müller** (Technical University of Munich) **Restorative justice and the epigenetics of early life adversity: new approaches to the biosocial effects of trauma.** Epigenetic studies of early life adversity often focus on harm and lasting damage with few suggestions for how to live well with trauma. We explore initiatives in restorative justice and trauma-informed care that draw on the epigenetics of early life adversity, but emphasize recovery and resiliency. A01

Keogh, Peter (Open University) and Catherine **Dodds** (University of Glasgow) **Embodiment, affect and the transformation of HIV: intimate knowledge and biomedical consensus.** See **Dodds**, Catherine.

Kerasidou, Xaroula (Lancaster University), Hayley **Alter** (Lancaster University), Monika **Buscher** (Lancaster University) and Maria Alejandra **Lujan Escalante** (Lancaster University) **IsITEthical? Participatory ethics in crises.** See **Alter**, Hayley.

Kerasidou, Xaroula (Lancaster University) **Out here and in there: intervening in HCI's outwardly moves from the comfort of the ubicomp home.** Prompted by HCI's outwardly moves towards people and disciplines "out there", this paper uses the case of the ubicomp home to make visible how the boundaries of "in here" and "out there" are drawn in such ways as to create insiders and outsiders, natives and detached observers. C23

Kerr, Anne (University of Leeds), Choon Key **Chekar** (University of Leeds), Sarah **Cunningham-Burley** (University of Edinburgh) and Julia **Swallow** (University of Leeds) **Accomplishing complex genomic based multi-arm trials: Working with tissue, time and value.** See **Chekar**, Choon Key.

Kierans, Ciara (University of Liverpool) **Describing the unexplained: rethinking the 'thin' and the 'thick' as practical problems for anthropology.** Working with the category of 'Chronic Kidney Disease of 'Unknown Origin' as a contemporary medical enigma, this paper examines the methodological value of 'thin' and 'thick' descriptions when producing explanations of unexplained phenomena. B11

Kieslinger, Barbara (Zentrum für Soziale Innovation GmbH), Katja **Mayer** (Technical University of Munich) and Teresa **Schaefer** (Zentrum für Soziale Innovation GmbH) **Re-situating participatory social research in Citizen Social Science.** How can open and participatory Citizen Social Science produce robust social knowledge for decision making in inclusive ways? How can we assess and value the social robustness of such approaches and their results? What about the benefits for the participants? C22

Kim, Dong Kwang (Korea University) and Jin Hee **Park** (Dongguk University) **Citizen participation in open design for sustainable energy system.** This paper explores how technological appropriation and open design could be made by community grassroots initiatives and what hinders those citizen participations. The living lab experiment with mini-PV plant in Seoul shows that PV plant could be redesigned by citizen participation, which might enhance social acceptance of solar energy. B03

Kim, Eun-Sung (Kyung Hee University) **Korean traditional beliefs and energy transition: pungsu, shamanism, and the local perception of wind turbines.** This article examines the relationship between Korean traditional beliefs such as pungsu theory and shamanism and local opposition to wind farms. It presents a unique Asian story on the local understanding of mountains and winds, as well as wind turbines, their noises and light. A11

Kim, Hyomin (Ulsan National Institute of Science and Technology) and Joon Young **Jung** (Soul National University) **The interpretation of blood: how blood group anthropology imagined assimilation and rationalized discrimination in the colonial Korea.** See **Jung**, Joon Young.

Kim, Hyomin (Ulsan National Institute of Science and Technology) **Wind, power, and the situatedness of community engagement.** Jeju, an island and a co-terminus province in Korea, became a place to site wind turbines with a high level of public acceptance. We explicate how the interpretation of community engagement in Jeju enabled the imaginaries of a "good" society that can go along with materiality of wind energy. A30

Kim, Ji Yeon (Korea University) and Yunjae **Kang** (Dongguk University) **A history and vision of participatory scientific activities in South Korea.** See **Kang**, Yunjae.

Kinder-Kurlanda, Katharina (GESIS Leibniz Institute for the Social Sciences), Laura **Kocksch** (Ruhr-University Bochum) and Estrid **Sørensen** (Ruhr-Universität Bochum) **Troubling the ordering in cybersecurity research.** With increasing funding for interdisciplinary projects in cybersecurity computer scientists are recruiting collaborators from various fields. Some collaborations perform interdisciplinarity particularly convincing, based on compatible epistemic cultures. We highlight potentials for STS. C24

Kinder-Kurlanda, Katharina (GESIS Leibniz Institute for the Social Sciences), Laura **Kocksch** (Ruhr-University Bochum), Andreas **Poller** (Fraunhofer Institute for Secure Information Technology), Estrid **Sørensen** (Ruhr-Universität Bochum) and Susann **Wagenknecht** (University of Siegen) **Panel discussion: researching IT security.** The panel offers an in-depth discussion of methods and methodologies for studying IT security in STS. We are interested in how the panelists approach IT security from various sides oscillating between inside and outside perspectives, and across disciplinary boundaries. C24

Klaas, Franziska (University of Bremen) and Katrin **Amelang** (University of Bremen) **Data meets electronic waste: practices and temporalities of a transformative encounter.** See **Amelang**, Katrin.

Kleiderman, Erika (Centre of Genomics and Policy) **Decriminalizing human germline modification?** 2017 has been a "breakthrough" year for both genome editing and the policy surrounding it. New policy statements call for more nuance in the ban on human germline modification and begin to address pre-clinical research. Considering this shift, what are the most appropriate governance approaches? C27

Klein, Anja (Humboldt-Universität Berlin) **From idiotic questions to the co-production of knowledge - reflections on in-tervention as method in research with/ on a highly specialized field.** Drawing on ethnographic fieldwork in a research group of model developers I argue for in-tervention as method in highly specialized fields not only to produce data but also to find common ground for conceptual work and knowledge production. C14

Klenk, Nicole (University of Toronto) **The meshwork of local knowledge co-production.** Meshwork refers to how individuals and knowledges are entanglements that emerge through encounters with others, as "lines of becoming." It is a useful metaphor to help us become skilled in the recursive practice of learning from difference to explore how science might be done differently. A05

Klumbyte, Goda (University of Kassel) and Claude **Draude** (University of Kassel) **Whose knowledge, whose power? Investigating principles of machine learning from a feminist epistemological perspective.** See **Draude**, Claude.

Knibbe, Mare (Mastricht University), Klasien **Horstman** (Maastricht University) and Sanne **Raap** (Maastricht University) **Tackling the problem of reach: a neighborhood knowledge collective in-the-making.** See **Horstman**, Klasien.

Kocksch, Laura (Ruhr-University Bochum) **Preparing for future value - collaboration in big data labs.** Mushrooming big data labs are sites of intense collaboration towards new data habitats. This talk explores how preparing for big data means re-configuring the data centre along with shared imagined futures and responsibilities. A22

Kocksch, Laura (Ruhr-University Bochum) and Tobias **Boczanski** (Goethe University Frankfurt) **Coding for the common good - writing software in organizations with care.** See **Boczanski**, Tobias.

Kocksch, Laura (Ruhr-University Bochum), Katharina **Kinder-Kurlanda** (GESIS Leibniz Institute for the Social Sciences) and Estrid **Sørensen** (Ruhr-Universität Bochum) **Troubling the ordering in cybersecurity research.** See **Kinder-Kurlanda**, Katharina.

Kocksch, Laura (Ruhr-University Bochum), Katharina **Kinder-Kurlanda** (GESIS Leibniz Institute for the Social Sciences), Andreas **Poller** (Fraunhofer Institute for Secure Information Technology), Estrid **Sørensen** (Ruhr-Universität Bochum) and Susann **Wagenknecht** (University of Siegen) **Panel discussion: researching IT security.** See **Kinder-Kurlanda**, Katharina.

Koerten, Henk (Vrije Universiteit) **European Natural History Museums as part of a global biodiversity-research infrastructure.** An ethnographic study of curators and scientists has been done to understand how processes of digitalization, virtualization and DNA sequencing affect the role of natural history museums as part of a global biodiversity research infrastructure. **A06**

Kolkman, Daan (Jheronimus Academy of Data Science) **New regimes of knowledge production: the case of Wifi-footfall counts.** It draws on ethnographic fieldwork to illustrate how society's datafication can conflict with extant means of measurement and how new quantification practices feed a rationale of monitoring and accountability. **A27**

Komljenovic, Janja (Lancaster University), Eva **Hartmann** (University of Cambridge) and Adrian **Mackenzie** (Lancaster University) **Higher education and the labour market infrastructure in the digital economy.** See **Hartmann**, Eva.

Konopásek, Zdeněk (Charles University), Radek **Carboch** (Masaryk University, Charles University) and Michal **Synek** (Charles University / Masaryk University) **Making clients to decide for themselves: turning people with learning difficulties into "modern subjects".** See **Carboch**, Radek.

Konrad, Kornelia (University of Twente), Paul **Benneworth** (University of Twente) and Verena **Schulze Greiving** (University of Twente) **Responsible innovation in eHealth? A comparison of projects, networks, and processes.** See **Benneworth**, Paul.

Kontschieder, Verena (Technical University of Munich) and Sebastian **Pfotenhauer** (Technical University of Munich) **"A safe place to do dangerous things": Policy Labs as the future of policymaking in Europe.** We explore the recent rise of 'policy laboratories' in the public sector based on a case study of the EU Commission's 'EU Policy Lab'. We argue that the deployed practices and rationales propose a policymaking model that reconfigures the role of experts, publics, and policy organizations. **F09**

Kosmützky, Anna (Leibniz Universität Hannover) and Romy **Wöhlert** (University of Leipzig) **Beyond cosmopolitans and locals: international research collaboration and academic identity formation.** International research collaboration has become a regular practice throughout disciplines since the 1970s. In our paper, we ask in what ways international research collaborations contribute to academic identity formation and analyze facets of international academic identities. **F03**

Kotaskova, Eva (Masaryk University) **Making landscape in ethnography: the trip to the ice cave and storytelling on Svalbard Archipelago.** In the ethnography of guided tours on Svalbard, the Arctic landscape revives both as a tour site and as a subject of research. In the paper, I discuss those two (overlapping) forms of "doing landscape" and the relations which emerges during the guided trip and the ethnographical fieldwork. **F07**

Kovacic, Zora (Universitat Autònoma de Barcelona), Roger **Strand** (Universitetet i Bergen) and Thomas **Völker** (Joint Research Centre of the European Commission) **Circularity by the numbers. Enacting and imagining the circular economy through indicators.** Since 2014 there is a policy push towards a so-called Circular Economy in the EU. This presentation will look at recent efforts at the European Commission to establish indicators and a monitoring framework for the Circular Economy as a site where imaginaries of circularity are currently stabilized. **A09**

Kragh-Furbo, Mette (Lancaster University) **Switching things on and off: encountering and monetising demand-responsiveness in dispersed electricity-using technologies.** Energy systems are being reworked to enable electricty demand to become temporally responsive to pressures on supply. We draw on STS theorisation to examine processes by which energy-using assets are being 'hunted down', valued and monetised not for their productivity but for their non-use. A11

Krebbekx, Willemijn (University of Amsterdam) **Reconfiguring 'sexting': contrasting interventions in contentious debates.** The paper considers attempts at intervention following a case of sexting in a Dutch school. It attends to how audiences were compelled by my knowledge practices in response. These contrasting interventions make clear how making knowledge can engage worldmaking normatively in various ways. C14

Kreps, David (University of Salford) and Jessica **Muirhead** (University of Salford) **'Infomateriality': Whitehead and digital experience amongst the over 65s.** Older generations' experience has been more visceral than today's infoworld. Using Whitehead's process philosophy, and findings from four-week diary studies with over65s and under25s, we consider modes of importance, expression and understanding to reconceive contemporary infomateriality. E05

Kreuter, Judith (Technische Universität Darmstadt) **The geopolitics of negative emissions.** In this article, we scrutinize several NETs through the analytical lens of geopolitics, asking which geopolitical challenges and potential consequences their large scale deployment would have. A23

Kristensen, Dorthe (University of Southern Denmark) **Seeing the self through data.** The aim of the paper is to discuss how we theoretically can capture processes of the self in practices of self-tracking. The focus is on the tension between being "in control" and an embodied feeling of being "in contact with oneself". G05

Kropp, Cordula (Uniuversität Stuttgart) and Ricarda **Scheele** (University of Stuttgart) **Politicizing energy futures in conflicting visions.** The paper explores controversies over energy landscapes in the three governance modes of modernist, reflexive and post-political governance based on a case study from Bavaria in Germany. D01

Kropp, Cordula (Uniuversität Stuttgart) **Continuities and discontinuities in the governance of motorized and autonomous traffic.** The paper will discuss continuities and discontinuities in the development of approaches to the technical governance of motorized and "smart" cars. A27

Krzyzanski, Piotr (Adam Mickiewicz University) **Improvise. Adapt. Overcome. - Key examples of post-soviet military equipment solutions in development of armed forces in central Europe after the Cold War.** The aim of the following paper is to establish a pattern to a modernisation involving post-soviet military equipment solutions in central Europe in the Cold-War period. Research is based on carefully selected case studies and shows both: similarities and differences between particular patterns. E10

Kullenberg, Christopher, Dick **Kasperowski** (University of Gothenburg) and Frauke **Rohden** (University of Gothenburg) **Epistemic cultures in citizen science and humanities: distribution, epistemic subjects, programs and anti-programs.** See **Kasperowski**, Dick.

Kunseler, Eva-Maria (PBL Netherlands Environmental Assessment Agency), Barbara **Regeer** (Athena Institute, Vrije Universiteit Amsterdam) and Lisa **Verwoerd** (Athena Institute, Vrije Universiteit Amsterdam) **Meeting the diversified demands for knowledge: reconciling modernist and reflexive values for knowledge production.** Disussing quality principles for knowledge production helps scientists to open up institutionalized modernist routines to the values of reflexive knowledge production. This supports scientists to reconcile conflicting demands of society on their role and on knowledge for complex societal problems. **F03**

Kunseler, Eva-Maria (PBL Netherlands Environmental Assessment Agency), Barbara **Regeer** (Athena Institute, Vrije Universiteit Amsterdam), Femke **Verwest** (PBL Netherlands Environmental Assessment Agency) and Lisa **Verwoerd** (Athena Institute, Vrije Universiteit Amsterdam) **Pursuing knowledge integration between modernist and reflexive cultures: lessons learned from two organised spaces for epistemic alignment.** Meetings within a Community of Practice and an interdisciplinary research team trigger knowledge integration when active reflection on epistemic cultures is combined with joint research efforts. **C11**

Kurze, Albrecht (Chemnitz University of Technology), Andreas **Bischof** (Chemnitz University of Technology) and Johanna **Richter** (Chemnitz University of Technology) **Your mother is watching you: lateral surveillance in smart homes.** See **Bischof**, Andreas.

Laage-Thomsen, Jakob (University of Copenhagen) and Anders **Blok** (University of Copenhagen) **Modes of urban greening? Civic urban natures in-between familiar engagement and green critique.** See **Blok**, Anders.

Lackerbauer, Simone Ines (University of Augsburg) and Reiner **Keller** (University of Augsburg) **Futures in fracking: how shale gas inspires dynamic and conflicting visions.** See **Keller**, Reiner.

Lafontaine, Céline (Université de Montréal) and Elisabeth **Abergel** (Université du Québec à Montréal) **The promise and challenges of human and animal stem cell tissue economies.** See **Abergel**, Elisabeth.

Lagerwaard, Pieter (University of Amsterdam) **Commensurating financial intelligence: a qualitative study of European Financial Intelligence Units (fius).** The paper analyses how social processes of commensuration underpin European counter-terrorism finance. It focuses on data production of national authorities in charge of generating actionable financial intelligence. It shows that commensuration facilitates the sharing of intelligence within Europe. **G03**

Lahn, Bård (CICERO Center for International Climate Research) **The history and politics of the carbon budget.** This paper traces the history of the concept of a global "carbon budget". It illustrates how the IPCC process engages scientists directly in modifying political problematizations of climate change, and explores the political implications of the carbon budget concept. **A08**

Landstrom, Catharina (University of Oxford) **'Re-wilding' participatory modelling for democratic environmental management.** Participatory modelling aims to incorporate 'local knowledge' in the evidence-base supporting environmental management, so far with marginal impact. Inspired by the notion of science in the 'wild' we can re-think the role of science in participatory modelling to increase its democratic efficacy. **E09**

Lang, Martina and Bernhard **Wieser** (Graz University of Technology) **Imaginaries of acceptance.** Analyzing focus group discussions, we assess digital health care technologies. We use video clips on imaginary health avatars to spark off discussions on sociotechnical futures. Our method invites you to join our critical reflection of the social construction of acceptance. **F10**

Laser, Stefan (University of Kassel) **Modular smartphones. Assessing a recent hype.** This paper critically engages with a recent design concept that wants to tackle the issue of electronic waste: a modular smartphone that may be easily repaired and recycled. Based on ethnographic data an attempt to develop such a phone is assessed, which helps reflect on learning capacities. **A09**

Latimer, Joanna (University of York) **Knowledge, intimacy & being alongside the life sciences of ageing.** Ethnographic research about the life sciences relies upon researchers getting inside a domain whose belongings can appear to position them as Other. In this paper, I explore the affects and effects of a methodology that deliberately promotes 'being alongside' (Latimer 2013) life scientists. **A15**

Latoufis, Kostas (National Technical University of Athens) and Aristotle **Tympas** (National and Kapodistrian University of Athens) **Makeshift Engineering: practicing the craft of locally manufactured small wind turbines.** Wind turbines in Scoraig grow out of their environment in an organic relationship to the social, the material and the natural. In this empirical study, the 'makeshift engineering' culture of locally manufactured wind turbine builders, proposes a sustainable design approach to rural electrification. **B07**

Laube, Stefan (Technische Universität Dresden) **Material practices of establishing ethnographic presence.** The paper focuses on two material practices of shaping ethnographic data: 'changing costume' and 'jotting notes'. It argues that these practices might establish 'ethnographic presence' and, in doing so, enable ethnographers to generate rich data. **F07**

Laurent, Brice (Mines ParisTech) and Roman **Solé-Pomies** (MINES ParisTech) **Cities as test fields. Urban innovation projects as democratic experiments.** This paper analyzes a state-sponsored program of urban innovation. It introduces an understanding of cities as "test fields", to account for the practical conduct of the program. We discuss the controversial "democracy of test fields" that emerges from urban experiments. **E09**

Laurent, Justine (University of Amsterdam) **"Clean enough": attachments and detachments in practices of excretion.** Here I attend to practices of excretion in potty training, to reveal how "clean enough" emerges as a key value. Rather than an ideal, though, this good is achieved and negotiated in practices through situated and adapting thresholds - allowing us to rearticulate attachment and normativities. **B05**

Law, John and Liv **Østmo** (Sámi University of Applied Sciences) **On Sámi words and lakes: mistranslation as colonisation.** Norwegian environmental policy divides nature from culture in ways that damage Sámi care for lakes. The paper explores the Sámi term jávredik□un, and considers the analytical and political significance of refusing to translate such non-binary and environmentally-relevant indigenous words. **A14**

Lazarevic, David (Finnish Environment Institute) and Helena **Valve** (Finnish Environment Institute) **Re-ordering material flows for renewable energy production or manure management: the emergence of biogas production in Finland.** This paper investigates the emergence of the biogas niche in Finland. It adopts a strategic niche management perspective, specifically focusing on the re-order material flows in niche development. A09

Lee, Shona Jane (University of Edinburgh) **Lords of the fly: tracing tsetse control networks and the social proximity of sleeping sickness interventions in Uganda.** Novel tsetse fly control tools play a key role in the 'one health' approach to eliminating sleeping sickness. Tracing their implementation across Uganda, I reveal fractured collaborations underpinning local tsetse control networks, and the importance of social proximity in sustaining interventions. C25

Lee, WanJu (Academia Sinica) and Yu-Yueh **Tsai** (Academia Sinica) **The missing publics: Taiwan Biobank, controversy, and democratic governance.** This paper aims to examine how Taiwan Biobank engaged with publics and dealt with the controversy. We argue that Taiwan Biobank lacked the "upstream public engagement" imaginary and the legalization of ethics and governance became the approach for settling controversy. C26

Leese, Matthias (ETH Zurich) **Keeping the machine in check: predictive policing and the "human in the loop".** This paper empirically analyzes police strategies to keep predictive policing software in check: (1) human oversight; (2) strengthening human reasoning vis-à-vis the machine; (3) invoking data quality and data protection; and (4) contextualization within larger trajectories of police work. A02

Lehner, Lisa (Cornell University) **Good diagnostics: productive uncertainty and caring for health in the case of Hepatitis C testing.** Juxtaposing routine Hepatitis C diagnostic testing in clinical settings with more decentralized testing drives, I explore competing enactments of "good diagnostics" in-practice. Discussing varying downstream results (intended or not), I also reflect on challenges for making such explorations matter. F04

Leonard-Clarke, Willow (Cardiff University) **Crafting the sustainable future: the values, knowledge and technology of Lammas ecovillage.** Here SCOT is used to shed light on sustainable development, adding 'symmetry' to understanding its success or failure. Lammas 'ecovillage' at Tir Y Gafel is used to explore craft, knowledge and technology in sustainable development, highlighting how human values and social practices shape our world. A18

Leonelli, Sabina (University of Exeter) and Niccolo **Tempini** (University of Exeter) **Actionable data for precision oncology: developing a trustworthy data source.** This paper considers how researchers make decisions about the actionability of specific datasets and the degree to which such data can be considered to be trustworthy. To this aim, we discuss the case of COSMIC, a leading data infrastructure in cancer genomics which aggreates a large amount of data. C26

Levidow, Les (Open University) **Treating waste for a circular economy? Limits of techno-market fixes.** Since a decade ago the UK has promoted novel technologies to bring waste up the hierarchy, potentially towards a circular economy. Yet techno-market fixes have complemented the dominant energy system, while marginalising the circular potential. A09

Lewis, Ashley (University of Nottingham) **'Doing' interdisciplinarity - experiences of researchers in urban sustainability.** This paper draws from the ethnographic study of an interdisciplinary project that incorporates researchers from both from the natural and social sciences. The focus is on how researchers create and work toward the goal and expectation of 'interdisciplinary collaboration'. C11

Lezaun, Javier (Oxford University) **Self-disclosure and community-building in open source medicinal chemistry.** This paper explores the uses of compound development in medicinal chemistry as a community-building exercise through the example of Open Source Malaria, a pharmaceutical initiative that crowdsources the identification and modulation of promising antimalarial compounds. A04

Lhoste, Evelyne (Laboratoire Interdisciplinaire Sciences Innovations Sociétés) and Marc **Barbier** (Institut National de la Recherche Agronomique) **Organizing inclusion: getting through the borders of innovative communities.** See **Barbier**, Marc.

Lin, Yuwei (University of Stirling) **To share or not to share: following the journeys of the data collected by citizen scientists.** This paper investigates how citizen scientists decided to share their data or knowledge based on a practice-based investigation into the data flow between online and offline data practices, meetings and alignments of multiple socio-technical and socio-political configurations. A06

Linde-Ozola, Zane (University of Leeds) **Managing superbugs and desire to belong in Latvia.** This paper explores how Latvian health specialists engage with globalized forms of governmentality in managing growing antibiotic resistance epidemic. C25

Lindén, Lisa (University of Gothenburg) **The intimacy of collaboration and resistance: patient organizations, gynecological cancer and changing lives.** I explore practices of gynecological cancer patient organizations as intimate entanglements of collaboration, resistance, and affectivity. In doing so, I approach patient organization practices and cancer patienthood as multilayered politics of intimacy, which entangle affects, care and knowledge. A15

Lindvig, Katrine (University of Copenhagen) and Sarah **Davies** (University of Copenhagen) **Situating integrity: locating policy concepts in practice.** See **Davies**, Sarah.

Lippert, Ingmar (Museum für Naturkunde Berlin) **Bets, bots and bodies: erasing erroneous environments.** I analyse ethnographically how humans & non-humans are reconfigured in a corporate carbon accounting machinery to perform smooth environments, removing erroneous environments. The company bets on specific human bots to sustain the machinery. Dream&datascapes are configured for capitalist purposes. A06

Lipphardt, Veronika (University of Freiburg), Denise **Syndercombe Court** (King's College London) and Matthias **Wienroth** (Newcastle University) **Intersecting discourses of security, commerce and race. Forensic DNA phenotyping and biogeographical ancestry prediction in the German public debate.** This paper analyses intersecting interests, moral economies, epistemic claims on "race" and "ancestry", and competing expertises in the German public debate around the legalisation of new forensic genetics technologies, contextualising the analysis with the current regulatory situation in the UK. C01

Lis, Aleksandra (Adam Mickiewicz University), Kärg **Kama** (University of Birmingham) and Leonie **Reins** (Tilburg University) **Co-producing knowledge and publics amidst controversy: analysis of an EU expert network on unconventional hydrocarbons development.** See **Kama**, Kärg.

Livingston, Jasmine (Lund University) **The IPCC as an organizer of scientific research: the case of the 1.5 Special Report.** This paper explores the complicated relationship between science and policy by looking at how the IPCC has played an important role in shaping research agendas and outcomes. It takes the case of the 1.5 degrees special report to examine how politics is increasingly defining the work of the IPCC. **A08**

Loconto, Allison (Institut National de la Recherche Agronomique) **Meeting 'territories' in food markets.** This study explores the co-production of the concept of 'territorial markets' as it takes form through the development of a participatory methodology to map these markets around the world. The empirical material for this paper is based on participant observations. **C28**

Lopez Gomez, Daniel (Universitat Oberta de Catalunya) and Blanca **Callén** (BAU, Design College of Barcelona) **Objectual companionship? Intimating with objects at the end of their lives.** See **Callén**, Blanca.

Lopez Gomez, Daniel (Universitat Oberta de Catalunya) and Lluvi **Farré** (Fundacio per a la Universitat Oberta de Catalunya) **Designing persistent maladjustments: age simulation suits and the problematization of elder's agency.** See **Farré**, Lluvi.

Lorenz-Meyer, Dagmar (Charles University) **Meeting photovoltaics: a plea for technoecological analysis.** This paper proposes the concept of technoecology for analysing solar energy. Denoting the co-constitution of the ecological & technological, technoecology focuses on how solar power remakes particular milieus and ethos in a double process of dis/articulation that attends to constitutive exclusions. **A30**

Lőrincz, Máté János (University of Reading) **Are smart electricity display-monitors smart enough to disrupt the everyday?** This paper provides an empirical examination of the lived experiences and energy-usage outcomes of the application of smart energy monitoring technologies within student household. It employs a social practice theory perspective in order to explore the ways in which such technologies are appropriated into daily lives, providing insight into, and possible explanation of, the effects that smart monitoring can have. In doing so, the research demonstrates that smart monitors have an effect, but cannot be explained through rational calculations, which confound the dominant framing of such technologies within paradigms that privilege methodological individualism. **A03**

Loroño-Leturiondo, Maria (Manchester Metropolitan University), Simon **Cook** (University of Dundee), Sam **Illingworth** (Manchester Metropolitan University) and Paul **O'Hare** (Manchester Metropolitan University) **Women's imagination of future, less polluted, urban environments.** See **Cook**, Simon.

Lösch, Andreas (Karlsruhe Institute of Technology) and Alexandra **Hausstein** (Karlsruhe Institute of Technology) **Clashing futures as drivers of socio-technological change.** See **Hausstein**, Alexandra.

Losch, Katharina (Ostfalia University of Applied Sciences) **Potentials of a widened concept of culture for gender research in STS. The example of Chinese and Indian female doctoral researchers in computer science at German universities.** A widened concept of culture not only gives new insights into understanding 'doing gender' but also shows ways of questioning 'masculine' cultures. My doctoral project about Chinese and Indian female doctoral researchers in computer science at German universities represents such an approach. C12

Loukissas, Yanni (Georgia Institute of Technology) and Firaz **Peer** (Georgia Institute of Technology) **Unravelling power asymmetries within Atlanta's housing data assemblage.** The goal of this paper is to reflect on the asymmetries of power that are associated with housing data. We do this by taking an anthropological approach to investigating the housing data assemblage and its network of actors in the city of Atlanta. E07

Low, Sean (Institute for Advanced Sustainability Studies) **Perspectives on the science and politics of negative emissions in integrated assessment models.** In this paper, we engage members of IAM groups involved in the creation of low emissions pathways, as well as critical experts from a variety of disciplines, in order to gauge shared or diverging understandings on the shaping role of modeling scenarios in policy-relevant scientific assessments. A23

Lucas, Adam (University of Wollongong) **Fossil networks and dirty power in the land of Oz.** This paper outlines the extent to which the fossil fuel industry in Australia has infiltrated government at multiple levels and continues to shape government policy concerning energy and infrastructure development. It argues that major structural reforms are required to turn this situation around. E06

Lüder, Catharina (Universität Kassel) and Jonas **Müller** (Kassel University) **Challenges of participant observation and collaborative ethnography in context with infrastructures.** We discuss methodological issues in STS research with regard to participant observation of infrastructures which are elaborated in two small case studies. The interest here is with infrastructures in specialised work places and how blind spots may be uncovered through collaborative research modes. F07

Luijkx, Katrien (Tilburg University) and Susan **van Hees** (Tilburg University) **Giving voice to unheard older adults. Participation technologies for knowledge-making-practices.** To enable frail older adults' participation in knowledge-making-practices in applied ageing studies, we experiment with qualitative methodologies as participation technologies, including the development of a research tool. This paper examines how different methodologies include different publics. E06

Lujan Escalante, Maria Alejandra (Lancaster University), Hayley **Alter** (Lancaster University), Monika **Buscher** (Lancaster University) and Xaroula **Kerasidou** (Lancaster University) **IsITEthical? Participatory ethics in crises.** See **Alter**, Hayley.

Lutz, Peter (Maastricht University) and Bart **Penders** (Maastricht University) **Normativities of integrity - a matter of care.** Multiple normative structures prescribing research integrity meet. This paper studies these encounters, their consequences and ways to care for both differences and translations between them. It empirically draws from cases in epidemiology and midwifery. F04

Lydahl, Doris (University of Gothenburg) **Visible persons, invisible work? Exploring articulation work in person-centered care.** Person-centered care is one of the many initiatives developed in response to new uncertainties and challenges in healthcare, promising to increase patient satisfaction while decreasing costs. This presentation explores the articulation- and invisible work involved in sustaining such care. F02

M'charek, Amade (University of Amsterdam) **Beach encounters: narrating the refugee crisis and its material traces.** Following the trail of worn out shoes and slippers, clothing and life vests, rubber and wood, our paths crossed, right there on the beach. In our contribution, inspired by Anna Tsing, we want to narrate the "world-making" capacity of movements, and attend to tragic material traces of meeting. A13

Maathuis, Ivo (Tilburg University) and Louis **Neven** (Avans University of Applied Sciences) **Resourceful ageing: creative assemblages as quiet dissent against the paternalistic stance.** This study investigates the resourceful (technological) solutions older people produce to solve everyday life problems. Such solutions are often seen as deviant or dangerous by engineers or care workers. We should instead see resourcefulness as a means towards more autonomy, self-reliance and fun. E05

MacBride-Stewart, Sara (Cardiff University) and Zeeda Fatimah **Mohamad** (Faculty of Science, University of Malaya) **Local ecological knowledges and the North-South knowledge divide: consequences for citizen science and participatory approaches.** Local ecological knowledges are often "globalized" but less is known about tools based in two-way directional flows promoting south-south or south-north collaborations. The paper examines questions about agenda setting and transferability from the perspective of a novel transcultural Heartware' citizen science approach in a Malaysian context. E10

Machado, Helena (University of Minho) and Rafaela **Granja** (University of Minho) **Assembling and disassembling ethical controversies of familial searching: the cases of the UK and Poland.** See **Granja**, Rafaela.

Machado, Helena (University of Minho) and Nina **Amelung** (University of Minho) **"Bio-bordering" in the EU and the surveillance of "non-publics".** See **Amelung**, Nina.

Machado, Helena (University of Minho) and Sara **Matos** (University of Minho) **Scrutinizing "genetic truth" and protection of personal data.** Transnational exchange of DNA data for fighting criminality is being reconfigured as a kind of "truth machine". This paper explores the sociotechnical imaginaries emerging in processes of articulating technological measurements of "genetic truth" with multiple notions of protection of personal data. G01

Machado, Helena (University of Minho) and Marta **Martins** (University of Minho) **Media narratives about transnational criminal surveillance systems: constructing the "European others".** This paper investigates the media's narratives about the uses of DNA technologies in transnational criminal cases. It aims to explore how the media portrays transnational criminal surveillance systems along political and moral processes of constructing the "European others". E02

Machado, Helena (University of Minho), Rafaela **Granja** (University of Minho) and Filipa **Queirós** (University of Minho) **The (in)visibilities of race through Forensic DNA Phenotyping technologies.** See **Granja**, Rafaela.

Macintyre, Amber (Royal Holloway, University of London) **The influence of data practices on the relationship between civil society organisations and their audiences.** This paper presents an ethnography exploring the influence of data practices on a civil society organisation's internal practices. The findings show divergent approaches to using personal data based on two initial starting points: the team and the individual's perceived role of the audience. **E07**

Mackenzie, Adrian (Lancaster University), Eva **Hartmann** (University of Cambridge) and Janja **Komljenovic** (Lancaster University) **Higher education and the labour market infrastructure in the digital economy.** See **Hartmann**, Eva.

Mackenzie, Adrian (Lancaster University) **The more GPUs you buy, the more money you save: images in data centres.** The paper will explore how large accumulations of images affect the architectural dynamics of data centres. It points to the importance of images as operational elements of data centres as technical ensembles. **A22**

Mackinnon, Debra (Queen's University) and David **Murakami Wood** (Queen's University) **Partial platforms: the everyday life of oligoptic geospatial technologies in the neoliberal city.** This paper traces the adoption and use of a smart city management application platform by three downtown Canadian BIAs. We explore the granular, uneven, and overlapping ways these technologies spatially sort and geosurveil the city. **C13**

Macq, Hadrien (University of Liège) **Turning Wallonia into a lab: when economic strategies meet creativity and experimentation dynamics.** This communication will analyse the political legitimacy of emerging forms of public participation in innovation-making processes (e.g. Living and Fab Labs). It will highlight the potential tension between an appeal to creativity and experimentation and the rigidity of controlled economic strategies. **F09**

Maderson, Siobhan (Aberystwyth University) **Beekeepers, scientists, and disparate voices: understanding, and addressing pollinator decline through reconfigured environmental knowledge.** This paper explores beekeepers' views on causes and appropriate responses to pollinator decline. Interview data suggest beekeepers' knowledge is underutilised by scientists. Points of synergy and digression are further challenged by public and media responses which also influence pollinator policy. **A05**

Madjaroff, Galina (University of Maryland Baltimore County) **Supporting caregivers and care recipients with home-based technology: an Amazon Alexa pilot.** With this research, I explore how home-based technologies, specifically the Amazon Echo can support the autonomy and safety of both caregivers and care recipients subsequent to the onset of cognitive disability (i.e. before the progression to severe neurocognitive disorder). **A03**

Madsen, Linda (University of Freiburg) **A real world laboratory and the vital role of visuals in tracing the trail of a lethal virus.** This paper explores how images and maps contribute to enacting localized disease situations, thereby to make them both manageable and "global". **E04**

Madsen, Linda (University of Freiburg) and Jens **Hälterlein** (University Freiburg) **Managing the "wave of helpers": socio-technical solutions for societal resilience.** See **Hälterlein**, Jens.

Mager, Astrid (Austrian Academy of Sciences (ÖAW)) **"Data protection is a fundamental right in Europe". Examining sociotechnical imaginaries of search engines and a European identity.** This paper examines visions and values mobilized in the co-production of search engines and Europe. Focusing on the EU data protection reform, it shows how a European search engine imaginary forms, how a European identity is constructed, and how national particularities help to un/make Europe. F11

Maguire, James (IT University of Copenhagen) **Promissory collaborations: Big-Tech datacenters and the state.** This paper analyses the emergence of the datacenter industry in Denmark as a site of promissory collaboration between the state and Big-Tech, arguing that datacenters provide an interesting perspective from which to think about transformations in data politics. A22

Mahfoud, Tara (King's College London), Christine **Aicardi** (King's College London) and Saheli **Datta** (King's College London) **Relative gains or human security? A closer look at the EU's Ethics Issues Checklist for upstream control of dual-use research in Europe.** See **Aicardi**, Christine.

Mahfoud, Tara (King's College London) **Visions of unification and integration: an ethnography of the European Human Brain Project.** In this talk, I reflect on European values of integration and unification and how these are embodied in the vision of the Human Brain Project (HBP). Based on multi-sited fieldwork in the HBP, I ask: what can a study of the HBP, then, tell us about European integration and unification? F11

Mahony, Martin (University of East Anglia) **Meteorology for 'marginal climates': colonial science in British East Africa.** In British colonial practice, colonial atmospheres figured as both resources for cultivation and as spaces for mobility. This paper traces this conflict in the development of meteorological knowledge-making in British East Africa, arguing for a renewed historicisation of Anthropocene infrastructures. A16

Maibaum, Arne (Technical University of Berlin) **Making machine learn - ethnographic insights on learning algorithms in the field of robotics.** Machine learning algorithms claim to learn from raw data. I show, following a field observation in a robotic lab, how algorithms instead are made learning by tinkering and ask about the consequences for their application. F01

Mair, Michael (University of Liverpool), Phillip **Brooker** (University of Liverpool) and Philippe **Sormani** (Swiss Institute in Rome) **Just what are we doing when we're describing AI? Harvey Sacks, the commentator machine and the descriptive turn in artificial intelligence.** See **Brooker**, Phillip.

Maldonado Castaneda, Oscar Javier (University of Rosario) **Algorithmic populations: Markov chain modelling and the making of a 'national' HPV vaccination programme.** This paper explores the role of statistical modelling in the production of sound epidemiological objects in a context in which data are perceived as fragile and precarious. It analyses the use of Markov chain modelling (MCM) by the National Committee of Immunisation in Colombia. G07

Mallard, Alexandre (Mines ParisTech, Université PSL) **Towards the emergence of a zero carbon building sector in France: reflecting on the appropriation of regulation in online discussion forums.** This paper examines discussions in online forums on the appropriation of the French thermal regulation issued in 2012. Using data from different platforms, it studies the processes of problematization, learning and politicization involved in the regulatory transition to zero carbon building. C19

Mann, Anna (University of Copenhagen) **Caring for quality of life? Normativities in the making on a dialysis ward.** Mobilising ethnographic materials gathered in a dialysis unit, the paper investigates how "quality of life" is crafted. It analyses both, enactments of quality of life and the tinkering with entities in nephrological practices, thus, providing an experiment in the making of normativities in STS. F04

Marcheselli, Valentina (University of Edinburgh) **On the social afterlife of space-junk.** This paper looks into the monitoring and tracking of orbital debris in order to map out some of the new political, economic and technologically mediated relationships coalesced around the growing pollution of the imagined boundary between Earth and space. A17

Marciniak, Daniel (University of Essex) **Knowing that it works: epistemologies of evaluating predictive hotspot policing.** Predictive policing programs pose evaluators with the paradoxical task of proving that police intervention prevented predicted crimes. This paper highlights contrasting epistemologies in research, police and industry for deciding whether a strategy is effective and their role in its diffusion. A02

Margulies, Jared (University of Sheffield) **Crafting geographies of human-wildlife encounter: visual praxiography in more-than-human worlds.** This paper discusses a collaboration in writing and visualizing critical more-than-human geographies, drawing on textual and visual materials to critically (re)consider the normative framing of 'human-wildlife conflict' in a landscape fraught with violent multispecies encounter. A26

Maricato, Glaucia (Federal University of Rio Grande do Sul) **Ontological politics of cure: towards a world without leprosy?** This paper explores the treatment of leprosy as a global technoscientific product based on a set of biomedical classifications. It offers a view on how the biomedical cure of leprosy is being currently questioned by patients in Brazil and provides insights into the ways it shapes care and resources. F04

Markussen, Rolf Andreas (UiT The Arctic University of Norway) **The anthropology of health disobedience.** This paper seeks to go beyond the deficit model as the dominant framework applied in explaining non-compliance and health disobedience. Instead, it suggests (re-)contextualized 'thick descriptions' of health related behavior. G07

Markusson, Nils (Lancaster University), Duncan **McLaren** (Lancaster University) and David **Tyfield** (Lancaster University) **The techno-politics of negative emissions.** Using negative emissions technologies as a case study, this presentation examines the ways in which the material forms and discursive promises of technologies reframe politics, reshape political interests, and in turn are reconstituted in new forms - or techno-political systems. A23

Marres, Noortje (University of Warwick) and Brit **Winthereik** (IT University of Copenhagen) **Situational analytics.** Social data science has not come to terms with socio-technical transformations of life in a digital age. To address this, we must make the situation the unit of analysis. But most situational approaches assume a "fieldsite." How do we move from situational analysis to situational analytics? C16

Marshall, Fiona (University of Sussex), Saurabh **Arora** (University of Sussex) and Ralitsa **Hiteva** (University of Sussex) **The urban food-water-energy nexus as an ecology of practices.** See **Arora**, Saurabh.

Martin, Paul (University of Sheffield), Michael **Morrison** (University of Oxford) and Ilke **Turkmendag** (Newcastle University) **Something old, something new, something borrowed: genome editing as a disruptive technology.** In this paper we focus on the extent to which genome editing is usefully conceived of as a 'disruptive' technology and suggest a future research agenda for social sciences in terms of science, clinical development, commercialisation and governance of genome editing. C27

Martin, Paul (University of Sheffield) and Ilke **Turkmendag** (Newcastle University) **Patient power? The influence of Rare Disease Patient Organisation on the development of gene therapy and genome editing.** This paper will map the emergence of sociotechnical networks in the UK and US related to gene therapy and genome editing, the way in which patient organisations have become embedded in the field, and how the claims of patients suffering from rare diseases are shaping the technology. C27

Martins, Marta (University of Minho) and Helena **Machado** (University of Minho) **Media narratives about transnational criminal surveillance systems: constructing the "European others".** See **Machado**, Helena.

Mather, Charles (Memorial University) **From commercial commodity to matchless game fish: recommodifying Atlantic salmon in Eastern Canada.** This paper is about the recommodification of Atlantic salmon from commercial species to matchless game fish. This shift was achieved, I argue, through strategies of economization and commensuration. The paper points to the work involved in the recommodification of objects and things. G02

Matos, Sara (University of Minho) and Helena **Machado** (University of Minho) **Scrutinizing "genetic truth" and protection of personal data.** See **Machado**, Helena.

Matsuyama, Naoki (University of Vienna) **Sound publics: imaginations of the public inscribed in a Japanese public loudspeaker system.** The public loudspeaker system in Japanese cities does not only warn of disasters but also plays a role in the mundane formation of togetherness through diverse functions. This paper analyzes the imaginations of the public inscribed in this system through interviews of the actors involved. C17

Mattes, Giorgos (National & Kapodistrian University of Athens) **Secrets as a privilege of governing: the case of QlikView/STATUS in Swedish police.** In recent years, the collaboration between Swedish police and business analytics company Qlik resulted in the production of the system STATUS at national level. Although the use of Qlikview is not limited to crime analytics, it is predictive analytics that mainly become a matter of public debate. A02

Mattozzi, Alvise (Free University of Bozen-Bolzano) **"All in relationship". Meetings between social sciences and design through description.** By delving on my exeprience as a teacher of sociological related subjects for design students and on my experience as social researcher studying design and design practices, I intend to show how description can produce meetings between design and social sciences. **B11**

Matus, Maximino (El Colegio de la Frontera Norte) **Mexicanness, hybrid attachments and the economy of passion.** The paper analyzes how the desire to affect and be affected by foreign bodies informs the commoditization of food products offered in Mexican restaurants in Amsterdam, Madrid and San Francisco. I argue that actors' attachments to passionate networks enable diverse Mexican foodscapes to be enacted. **B05**

Matzner, Nils (Alpen-Adria-Universität Klagenfurt) **What is responsible climate geoengineering? Contested notions of responsibility in climate engineering expert discourses.** Climate engineering (CE) experts frame responsibility concerning research, deployment, and governance of CE in various ways. This paper maps, explains, and compares responsibility concepts across six domains of the CE expert discourse. **C18**

Mayer, Katja (Technical University of Munich) and Jürgen **Pfeffer** (Technical University of Munich) **Anticipating the big law: flows of personal data.** By confronting journeys of personal data from devices to data markets with expectations of the new European e-privacy regulation we examine limits and opportunities of agency in regard to privacy protection. **E07**

Mayer, Katja (Technical University of Munich), Barbara **Kieslinger** (Zentrum für Soziale Innovation GmbH) and Teresa **Schaefer** (Zentrum für Soziale Innovation GmbH) **Re-situating participatory social research in Citizen Social Science.** See **Kieslinger**, Barbara.

McElroy, Erin (University of California, Santa Cruz) **The boundaries of open data: digitally mapping displacement as an anti-capitalist collective.** Focusing upon the work of the Anti-Eviction Mapping Project - a digital cartography collective documenting gentrification struggles - this paper centers the collective's struggles with data colonialism and open data, questioning what models can be used to maintain relevance, endurance, and autonomy. **B06**

McLaren, Duncan (Lancaster University), Nils **Markusson** (Lancaster University) and David **Tyfield** (Lancaster University) **The techno-politics of negative emissions.** See **Markusson**, Nils.

McLeod, Carmen (University of Nottingham), Stevienna **de Saille** (University of Sheffield) and Brigitte **Nerlich** (University of Nottigham) **Serious yet playful: the benefits of play when social scientists and synthetic biologists meet.** See **de Saille**, Stevienna.

Meckin, Robert (University of Manchester) **Sensory and embodied engagement: situating anticipation of biotechnological flavours in everyday practices.** Current policy agendas urge innovators to engage publics and anticipate issues arising with their technologies. The production of biosynthetic flavours and fragrances offers a sensory entry point into exploring the ways that citizens anticipate technoscientific innovations in everyday practices. **A25**

Meloni, Maurizio (Deakin University) **Plasticity before plasticity: an archaeology and biopolitics of biosocial entanglements.** Histories of plasticity of the body become more visible by the day in the Global North and South. This paper offers an archaeological view of how plasticity was used in ancient and early modern times to establish hierarchies between human groups, prefiguring an alternative history of racism. **A01**

Mendes Bernhard, Claudia (Technical University of Munich) **Smarter together? Policy assemblages and economisation in the European Union.** Conceptualizing the EU H2020 Smart Cities and Communities programm as a policy assemblage, this paper seeks to explore the complex entanglement of valuation, policy and economisation devices at stake. **G04**

Mesman, Jessica (Maastricht University) and Suyin **Hor** (University of Technology Sydney) **Sticky business: techniques to engage with the viscosity of practices in healthcare.** See **Hor**, Suyin.

Mewes, Julie Sascia (Humboldt University Berlin) and Leyla **Safta-Zecheria** (Central European University) **Collaboration in and beyond the ethnographic field: overcoming epistemic asymmetries through collaborative practices in and beyond residential care settings.** The proposed paper looks at how personal files in residential care settings solidify epistemic asymmetries between file producing staff and file object residents and the ways in which these epistemic asymmetries can be overcome through acts of collaboration in and beyond the ethnographic field. **F07**

Meyer, Morgan (MINES ParisTech) **Promissory equipment: the fabric of participation in DIY practices.** This paper examines the equipment developed within DIY movements, be it in biology, medicine, ecology or agriculture. I argue that these objects act as promissory equipment, enacted through a convergence between material practices and moral visions (openness, sharing, democracy, autonomy, …). **B06**

Meyermans, Axelle (Universiteit Antwerpen) and Pieter **Cools** (Universiteit Antwerpen) **Citizen stakeholder's visions of monitoring strategies in nuclear waste disposal sites: an inquiry into the political life of a 'counter-imaginary'.** See **Cools**, Pieter.

Michael, Mike (University of Exeter) **Involving the future: compounding the composition of the fatberg.** Enactments of fatbergs are discussed in terms of various compound actors who contribute to the fatbergs' solution-oriented futures. Drawing on the idea of 'bond', the paper explores the more open futures involved in two artworks each enacting different fatberg ontologies. **A04**

Michalec, Aleksandra (University of the West of England) and Enda **Hayes** (University of the West of England) **Can GIS help with the equitable targeting of "smart" interventions?** See **Hayes**, Enda.

Middleton, Jonnet (Lancaster University) **Living in/as im/possibility: on our response-ability to mend.** Mending is im/possible in a world order in which matter doesn't matter. As ontoworker (not-artist/activist) I rehearse posthuman material worlds in the abyssal space of potential between the known possible world of the dominant order and the im/possible alternative worlds of our own (re) configuring. **B09**

Miguel, Jean Carlos (Federal University of São Paulo) **"Infrastructural geopolitics" of climate knowledge.** This article aims to discuss how geopolitical aspects are embedded into efforts of Southern nations that try to build climate knowledge infrastructures. It argues that we need to understand the "infrastructural geopolitics" of developing countries. A16

Mikoleit, Ronja (University Freiburg) **Professional practices and the materiality of knowing and making biodiversity in the Black Forest.** How can we methodologically engage with the materiality of knowledge, performed by bodies, dealing artefacts and natural elements? I approach this question by focusing on the shaping of biodiversity through professional knowledge practices and multiple intra-actions in the forest. F07

Milan, Stefania (University of Amsterdam) and Anita **Chan** (University of Illinois, Urbana-Champaign) **Data cultures from the Global South: decentering data universalism.** See **Chan**, Anita.

Millepied, Anne-Charlotte (Ecole des Hautes Etudes en Sciences Sociales) **Treating and living endometriosis: a biosocial experience.** What makes endometriosis a biosocial experience? This paper focuses on medical work and on the everyday life experience of women affected by this painful and chronic disease, in order to highlight the entanglement of its biological and social dimensions. A01

Mills, China (University of Sheffield) and Eva **Hilberg** (University of Sheffield) **'Built for expansion': conditions of possibility and sites of performance for the WHO's mhGAP diagnostic algorithm.** See **Hilberg**, Eva.

Milne, Richard (University of Cambridge) **Meeting success and failure in Alzheimer's disease drug development.** This paper examines the role of pharmaceutical 'failure' in shaping bioclinical and ethical thresholds between normal ageing and dementia. I draw on ethnographic work and analyses of scientific and company literature, informed by STS studies of expectations, hope and ambivalence. C09

Miyazawa, kaoru (Gettysburg College) **Doing ethnography at home: a reflection from post-disaster Fukushima.** This essay delineates how my feelings about the nuclear power plant, radiation, and Fukushima people shifted during my fieldwork in Fukushima (my hometown), which experienced nuclear power plant explosion in 2011. C12

Moats, David (Linköping University) **Rethinking the great divide: probing the tensions between anthropologists and data scientists through situated interventions.** This papers reflects on some of the tensions which arise when anthropologists collaborate with data scientists in analysing social data. I attempt to rethink these divisions, locating these frictions in situated practice and proposing new ways for anthropologists to intervene in these settings. C04

Moffat, Luke (Lancaster University) **Staying with speculation: natures, futures, politics.** I examine the increasing use of speculation and speculative methods in research practices across the sciences, arts and humanities. I use these approaches to classify the Anthropocene as an inherently speculative entity, or collection of entities. Using the nature-philosophy of F.W.J. Schelling, I argue that this speculative status requires consideration of key political questions over the material ramifications of speculation itself. A16

Mohamad, Zeeda Fatimah (Faculty of Science, University of Malaya) and Sara **MacBride-Stewart** (Cardiff University) **Local ecological knowledges and the North-South knowledge divide: consequences for citizen science and participatory approaches.** See **MacBride-Stewart**, Sara.

Mol, Annemarie (University of Amsterdam) and Carolina **Domínguez Guzmán** (University of Amsterdam) **Caring for the canal: exploring water management and cuidar.** See **Domínguez Guzmán**, Carolina.

Mol, Annemarie (University of Amsterdam) **Schoon and other goods pertinent to water care in the Netherlands.** What is it for water to be 'schoon'? This Dutch word mostly translates into English as 'clean'; but sometimes rather resonates 'beautiful'. The paper takes this layered word as an occasion to explore felicitous and terse relations between different modes of valuing. **A14**

Möllers, Norma (Queen's University) **The edges of vitality: race, infrastructure, and the moral boundaries of the state.** Analyzing political discourse on cybersecurity in Germany, this paper explores how states use race to draw moral boundaries around themselves in cyberspace. **E08**

Molyneux-Hodgson, Susan (University of Exeter) and Sally **Atkinson** (University of Exeter) **Protecting and perfecting nature: performing responsibility in academic-industry collaboration.** See **Atkinson**, Sally.

Moore, Niamh (University of Edinburgh) **Mother nature, earth as mother and queer cyborggoddesses: refiguring (eco)feminist genealogies through Clayoquot Sound.** This paper revisits the figures of mother nature and earth as mother through stories of ecofeminist activists and asks, given more widespread engagement now with naturecultures, new materialisms, and anthropogenic climate change, what can be upcycled from the trashing of ecofeminism. **B09**

Moore, Niamh (University of Edinburgh) **Time travel as research method for reverse engineering feminist archives.** We explore live and archival methods focusing on a project that involves the reverse engineering of thirty year old study of teenage sexuality. We elaborate on the importance of feminist methodologies in a transdiciplinary archival turn, operationalizing time as a resource for feminist analysis. **B09**

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Moreira, Tiago (Durham University) **Translating cell biology of ageing? On the importance of choreographing knowledge.** Drawing on a 3 year ethnography in a cell biology lab, this paper explores the dis/alignment between knowledge making practices in senescence research and 'translational' regimes of innovation in biomedicine and health. **E05**

Morfakis, Constantinos (National and Kapodistrian University of Athens) and Katerina **Vlantoni** (National and Kapodistrian University of Athens) **Rethinking the public versus private debate on UCB biobanking: the participation of donors in the processes of shaping UCB biobanking configurations in Greece.** We draw on empirical data to study the debate between the public and the private/family UCB banking models in Greece, by focusing on the participation or obscurity of donors/citizens at different instances, in order to capture the ways they relate to the biotechnologically reformulated tissues-UCBs. **V01**

Morin, Kevin (National Institute of Scientific Research, Canada) and Jonathan **Roberge** (National Institute of Scientific Research, Canada) **From algorithmic cultures to machine learning and back.** Neural network machine learning creates a unique occasion to reassess the literature on 'algorithmic cultures'. Fundamental issues dealing with agency and governmentality are changing in nature, especially when it comes to meaning-making and the production of an open-science field. **V07**

Morris, Carol (University of Nottingham), Richard **Helliwell** (University of Nottingham) and Sujatha **Raman** (University of Nottingham) **Making chemical infrastructures (in)visible: environmental imaginaries and the environmental sciences of antimicrobial resistance.** See **Helliwell**, Richard.

Morrison, Michael (University of Oxford) **Making bio-objects mobile.** Circulation of bio-objects such as human stem cell lines requires entanglement of the 'bio' with the digital and non-biological material alike. In addition, to make bio-objects mobilisable across institutional or legal thresholds they often need to be 'tethered' to fixed sites. **C09**

Morrison, Michael (University of Oxford), Paul **Martin** (University of Sheffield) and Ilke **Turkmendag** (Newcastle University) **Something old, something new, something borrowed: genome editing as a disruptive technology.** See **Martin**, Paul.

Mouton, Morgan (University of Calgary), Melanie **Rock** (University of Calgary) and Olga **Solomon** (University of Southern California) **Have you seen this dog? Rendering more-than-human publics legible in urban settings.** Using the case study of Calgary, Alberta, this presentation explores how local governments can mobilise databases digital technologies to make dogs visible - and therefore legible and in the reach of public action - in urban settings. **G05**

Muirhead, Jessica (University of Salford) and David **Kreps** (University of Salford) **'Infomateriality': Whitehead and digital experience amongst the over 65s.** See **Kreps**, David.

Müller, Anna-Lisa (University of Bremen) **A relational analysis of contemporary planning practice.** Based on empirical data from numerous postindustrial cities, the paper presents a relational analysis of contemporary planning practice, the different (human and non-human) actors involved and the resultant power relations by using street art as particular case study. **V08**

Müller, Jonas (Kassel University) **Matters of scale, or how Satellite Remote Sensing, grasslands and vegetation models meet in data.** This paper explores an interdisciplinary research project linking Satellite Remote Sensing, environmental modelling and others to monitor and predict the mowing of grasslands. It argues that the project's way of meeting in data is in incongruent scales, or dealing with matters of scale. A06

Müller, Jonas (Kassel University) and Catharina **Lüder** (Universität Kassel) **Challenges of participant observation and collaborative ethnography in context with infrastructures.** See **Lüder**, Catharina.

Müller, Peter (Munich Center for Technology in Society) **Hackathons as space-times of creative togetherness: dystopian and utopian hues of ideals and their realisation.** Presenting my research on events of creative togetherness like hackathons, I will discuss some of their additional, rather tacit, functions which, concerning asymmetries and selectiveness, render the utopian hackathon ideal an opportunity for a manifold, dystopian parasitism. C17

Müller, Ruth (Technical University of Munich) and Martha **Kenney** (San Francisco State University) **Restorative justice and the epigenetics of early life adversity: new approaches to the biosocial effects of trauma.** See **Kenney**, Martha.

Müller, Ruth (Technical University of Munich), Sarah **de Rijcke** (Leiden University) and Wolfgang **Kaltenbrunner** (Leiden University) **Filling in the gaps. The politics of interpreting academic CVs in evaluative situations.** See **de Rijcke**, Sarah.

Müller, Ruth (Technical University of Munich) and Kay **Felder** (Technical University of Munich) **Evidence for excellence? How ERC reviewers attribute (non-)excellence to researchers.** See **Felder**, Kay.

Müller, Ruth (Technical University of Munich) and Michael **Penkler** (Technical University of Munich) **Transgenerational epigenetics: intimate entanglements between being and knowing in a contested field.** Transgenerational epigenetics argues that environmentally induced epigenetic marks can be inherited across generations. This claim is highly contested within epigenetics. We trace researchers' self-conceptualizations and the intimate entanglements between being and knowing in this contested field. A15

Munck af Rosenschöld, Johan (University of Helsinki) and Mikko **Salmela** (University of Helsinki) **Cultivating and hampering interdisciplinary meetings: the role of institutional work.** Interdisciplinarity has important institutional implications. We utilize the concept of 'institutional work' to explore the opposition to and support for top-down interdisciplinarity in a university undergoing major restructuring to promote interdisciplinarity. C11

Murakami Wood, David (Queen's University) and Debra **Mackinnon** (Queen's University) **Partial platforms: the everyday life of oligoptic geospatial technologies in the neoliberal city.** See **Mackinnon**, Debra.

Murtagh, Madeleine (Newcastle University) **Empirical bioethics provocation: getting our hands dirty - necessary tensions in intersectoral and interdisciplinary collaboration and co-production.** Intersectoral and transdisciplinary participatory or collaborative research necessarily involves researchers 'getting our hands dirty'. So how does such meddlesome work square with STS's critical mindset when relationships are dependent on good rapport, trust and reciprocity? C03

Nadai, Alain (Centre national de la recherche scientifique), Christophe **Cassen** (Centre International de Recherche sur l'Environnement et le Développement) and Béatrice **Cointe** (University of Oslo) **Organising policy-relevant knowledge for climate action: Integrated Assessment Modelling, the IPCC, and the emergence of a collective expertise on socioeconomic emission scenarios.** See **Cassen**, Christophe.

Nascimento, Susana (European Commission, Joint Research Centre) and Alexandre **Pólvora** (European Commission) **Extracting key learnings from a multi-sited urban citizen sensing project.** We will focus on key learnings and best practices from Making Sense as a multi-sited urban citizen sensing project focused on how open-source technologies and maker practices can be co-created with and by communities to address environmental issues in their streets, neighbourhoods or cities. A28

Nascimento, Susana (European Commission, Joint Research Centre) and Alexandre **Pólvora** (European Commission) **A Policy Lab approach between critical STS, technology foresight and design fictions.** The paper addresses key challenges and opportunities of emerging "lab approaches" from the viewpoint of the EU Policy Lab's unique institutional environment between research and policy advice dedicated to a transdisciplinary way of working. F09

Nathansohn, Regev (University of Haifa) **Ethnography and the "Smart City".** This paper asks what could ethnographic research contribute to our understanding of "Smart Cities". I begin with a review of contemporary inter-disciplinary academic literature and the various potentials for ethnographic interventions, and then focus on two ethnographic case studies. C10

Navarro, Santiago (Universidad de la República, Uruguay), María Pilar **Bacci Mañaricua** (Universidad de la República, Uruguay), Andrea **Bielli** (Universidad de la República, Uruguay) and Gabriela **Bruno** (Universidad de la República, Uruguay) **Health professionals responses to demands for medical solutions to emotional distress in Uruguay.** See **Bacci Mañaricua**, María Pilar.

Nelson, Nicole (University of Wisconsin Madison) **Remaking the world for reproducibility.** This paper examines the data imaginaries of the "reproducibility crisis," and the connection between these imaginaries and laboratory practice. Using ethnographic data, it examines how scientists enact particular kinds of stability and commensurability far upstream in their research process. A06

Nerlich, Brigitte (University of Nottigham), Stevienna **de Saille** (University of Sheffield) and Carmen **McLeod** (University of Nottingham) **Serious yet playful: the benefits of play when social scientists and synthetic biologists meet.** See **de Saille**, Stevienna.

Neven, Louis (Avans University of Applied Sciences) and Ivo **Maathuis** (Tilburg University) **Resourceful ageing: creative assemblages as quiet dissent against the paternalistic stance.** See **Maathuis**, Ivo.

Neyland, Daniel (Goldsmiths, University of London) and Véra **Ehrenstein** (Goldsmiths, University of London) **Cement and the material form as bearer of responsibility and accountability.** See **Ehrenstein**, Véra.

Nicolini, Giulia (European Food Safety Authority) **Bringing social science into food safety agencies: the European Food Safety Authority perspective.** This paper will consider the drivers behind the European Food Safety Authority's aspiration to incorporate social science into its work, starting with an overview of how social science is used in food safety agencies, and concluding with an outlook on the future for social science at EFSA. **C28**

Nieminen, Mika (VTT Technical Research Centre of Finland) and Maria **Akerman** (VTT Technical Research Centre of Finland) **Using boundary object-theory as a framework for understanding adoption of renewable energy innovations in housing: building and HPAC -plan.** See **Akerman**, Maria.

Nieves Delgado, Abigail (Ruhr University Bochum) **Facial recognition technology as software of categorization.** This paper focuses on the use of normative face templates in the development of facial recognition technologies. Based on an historical case study it analyzes the expectations underlying the introduction of such templates and discusses software-based identification and categorization practices. **E03**

Nieves Delgado, Abigail (Ruhr University Bochum), Olga **Galanova** and Estrid **Sørensen** (Ruhr-Universität Bochum) **Opening (and closing) doors for security: negotiations of trust.** See **Galanova**, Olga.

Nino, Natalia (University of Edinburgh) **WHO child growth standards and the politics of child malnutrition measurement during early childhood.** Using as a theoretical framework the literature on standards, measurement and global metrics this paper discusses the processes of inclusion and exclusion behind the design of the WHO child growth standards and how there are mobilised in the quantification of child malnutrition in Colombia. **V02**

Niskanen, Johan (Linkopings University) and Harald **Rohracher** (Linköping University) **Mainstreaming passive houses in Sweden: institutional perspectives from two regions.** A shift towards nearly-zero energy buildings is required by EU. This leads to multi-scalar challenges, and concerns the embedding of buildings in regional institutional contexts. This paper studies how institutionalization processes interact and shape the mainstreaming of passive houses in Sweden. **C19**

Nissen, Morten (Aarhus University) and Sebastian **Tobias-Renstrøm** (Aarhus University) **Reconfiguring motivation as emerging motives in evolving collectives.** Enhancing 'motivation' for a preconceived activity or 'change' is a limited approach to developing subjectivities. Better to individuate agents, actions, desires and knowledges in emerging collectives. We perform such reflexive self-making as a way of developing social youth work and its knowledges. **C14**

Noel, Marianne (Université Paris-Est) **"We must communicate the value of chemistry". Producing order through publishing infrastructures in chemistry professional conferences.** Using chemistry as a case study I consider the conference as social technology that attempts to produce order and thus standardize the chemistry world. I look at how professional meetings shape global governance of publishing infrastructures and show how disciplinary practices are consubstantial with market-based considerations. C02

Nold, Christian (University College London) **Intervening in data infrastructure using ontological switches.** The paper presents an ethnographic method for intervening in technology practices using 'ontological switches'. This sensitises researchers towards seeing data infrastructures as fluid and allows them to see where they can intervene to allow more actors to participate in world making. C16

Nowak, Andrzej Wojciech (Adam Mickiewicz University) **The disappearance of the Second World, "suitcase science" - polish higher education reform and exclusion of technoscientific perspective.** Paper aims to show the semi-peripheral context of the functioning of knowledge. Will be shown that lack of STS perspective in polish reform of higher education is correlated with the disappearance of the Second World - alternative, sovereign networks of stabilisation of reality and knowledge. E10

Nunez Casal, Andrea (Goldsmiths, University of London) and Niki **Vermeulen** (University of Edinburgh) **Finding a place in science: the role of institutional configurations in the formation of scientific identity.** This paper explores the importance of place and institutional culture for the identity of scientists, through the merger of two long-standing research institutes into a new bespoke building. Based on the analysis of the moving process, we show the entanglement of place and identity in science. F03

Nyborg, Sophie (Technical University of Denmark) and Meiken **Hansen** (Technical University of Denmark) **Smart solutions, private households and control; a case study of experimental projects.** See **Hansen**, Meiken.

O'Donovan, Cian (University of Sussex) and Adrian **Smith** (University of Sussex) **Human agency in post-automation: an analysis into the appropriation of digital design and fabrication technologies by crafters and coders in non-industrial settings.** This paper examines how non-industrial digital fabrication activities are opening up 'automation' technologies to 'post-automation' appropriations. We assess evidence for sociotechnical relations based in care for other people and materials, and discuss implications for human agency. B03

O'Hare, Paul (Manchester Metropolitan University), Rachel **Dunk** (Manchester Metropolitan University) and Regine **Sonderland Saga** (Manchester Metropolitan University) **University students' perspectives of a Smart City: integrating needs and aspirations.** See **Dunk**, Rachel.

O'Hare, Paul (Manchester Metropolitan University), Simon **Cook** (University of Dundee), Sam **Illingworth** (Manchester Metropolitan University) and Maria **Loroño-Leturiondo** (Manchester Metropolitan University) **Women's imagination of future, less polluted, urban environments.** See **Cook**, Simon.

O'Riordan, Kate (University of Sussex) **Crafting companions and cyborgs: anger and attachment.** The paper traces a partial examination of the cyborg manifesto as life writing; debates about the cyborg in the field; practices of cyborg writing; anger, rejection and reconfiguration (embryo and doppelganger); as well as its relation to life itself more broadly conceived. B09

Oechsner, Susanne (University of Vienna) and Melanie **Goisauf** (University of Vienna) **Citizens' negotiations of information, value and reciprocity in the biobank context.** See **Goisauf**, Melanie.

Oechsner, Susanne (University of Vienna), Ulrike **Felt** (University of Vienna), Maximilian **Fochler** (University of Vienna) and Andrea **Schikowitz** (University of Vienna) **The Science in Society Laboratories: training students to analyse contemporary techno-scientific controversies and develop normative recommendations.** See **Felt**, Ulrike.

Oinas, Elina (University of Helsinki) and Salla **Sariola** (University of Turku) **Living-with microbes in the era of antimicrobial resistance.** This paper explores collaborations to tackle the global increase of antimicrobial resistance (AMR) and focuses on human-microbial encounters in a vaccine trial set in Benin, West-Africa. C25

Oliver, Martin (UCL Institute of Education), Jade Vu **Henry** (UCL Institute of Education) and Niall **Winters** (University of Oxford) **Situating design in a mobile phone research intervention to train Kenyan health workers: the design-reality gap as a lateral concept.** See **Henry**, Jade Vu.

Oomen, Jeroen (Rachel Carson Center, LMU) **Diverging imaginations of climate engineering: how different scientific communities construct climate engineering promises.** Despite collaboration between actors in different climate engineering (CE) research communities, different scientific cultures, histories, and imaginations exist between these communities. This paper explores how different imaginations of CE lead to different narratives, promises and exclusions. C18

Oppermann, Elspeth (Charles Darwin University) **The practiced intimacies of heat: negotiating the energetic imbrications of working and researching bodies.** This paper reflects on the intimate, embodied and relational knowledge that both enables and disrupts practices of work and practices of research in two sets of tropical and outdoor workplaces/work practices. A15

Ornetzeder, Michael (Austrian Academy of Sciences) and Harald **Rohracher** (Linköping University) **Mainstreaming energy efficient buildings in Austria.** Austria is one of the leading countries regarding the development of energy efficient buildings. This paper draws on interviews with key actors in research, policy and the building sector, to analyse the development and arguable mainstreaming of energy efficient buildings in Austria. C19

Orsini, Davide (Mississippi State University) **When knowledge is not there yet: a semiotic approach to risk.** This paper examines the material process that allow both experts and non-experts to represent and objectify invisible risks in situations of uncertainty. The analysis aims to question the frequently postulated internal coherence and uniqueness of lay and expert ways of knowing. A05

Ottenburger, Sadeeb Simon (Karlsruhe Institute of Technology) and Ulrich **Ufer** (Karlsruhe Institute of Technology) **Smart urban risks in decontextualized tech-visions.** Smart electricity networks will produce and amplify new and already existing risks with consequences for urban social difference. We argue that urban technological resilience should be considered as a subordinate aspect of urban social resilience. D01

Ottolini, Lucile (INRA / INERIS) **Opening science to civic society: the case of stakeholder committees in research organisations in France.** This paper studies an institutional innovation: the creation of stakeholder committees in public research organizations. Paying attention "to rules and rule making" of stakeholder committees in 4 cases we will explore if it changed the scientific governance in the institutions concerned. D03

Oui, Jeanne (Centre Alexandre Koyré - EHESS) **Innovate to adapt European agricultures to climate change? The "Climate Smart Agriculture Booster", a regulatory policy aiming at incentivizing technological innovation.** I analyze a European policy launched to adapt farming systems to climate change. In the Climate Smart Agriculture Booster, the climate issue is regulated by incitations to technological innovation directed to the private sector, which is considered as the major actor to implement a climate policy. F11

Palà, Guillem (University Autonomous of Barcelona) **Opening an ecological differently speculative ethics?** Gabriel Tarde's work opens an excellent opportunity for feminist approaches to revisit the conceptualization of the difference. This paper explores the possibility to move towards an ecological differently speculative ethics, questioning, as a mantra, 'what would be an encounter?'. B09

Pala, Roberta (University of New South Wales) **Vaccines' intricacies and elusive biological processes.** My paper investigates the encounter between immune system and vaccine matter, considering the networks and bio-cultural implications that unravel from it. I focus on the unexplained circumstances of vaccine 'failure' in order to appreciate scientific surprises as novel and productive events. A01

Pallett, Helen (University of East Anglia), Rob **Bellamy** (University of Oxford), Jason **Chilvers** (University of East Anglia) and Tom **Hargreaves Why practices and atmospheres of participation matter: insights from a democratic experiment in distributed deliberative mapping.** See **Bellamy**, Rob.

Panese, Francesco (University of Lausanne) and Luca **Chiapperino** (University of Lausanne) **The biosocial imaginaries of epigenetics: performance, visibility, ethopolitics.** See **Chiapperino**, Luca.

Pansera, Mario (University of Bristol) **Responsible Research and Innovation (RRI) in turbulent times: how the British broader political context is shaping the RRI practices of the Engineering and Physical Science Research Council (EPSRC).** This paper focuses on the evolution of the EPSRC's engagement with Responsible Innovation (RI). The work shows that the changing political environment for research and higher education in the UK, including Brexit, are seen as significant factors that could influence the future of RI in the UK. C15

Pantzar, Mika (University of Helsinki), Nina **Janasik-Honkela** (University of Helsinki) and Sari **Yli-Kauhaluoma** (University of Helsinki) **Imagining human-centric data futures: an analysis of the visual conventions of personal finance, health and integrated data management tools.** See **Janasik-Honkela**, Nina.

Panwar, Amishi (The Graduate Institute, Geneva) **Banking on blood: the science, market and traditional methods of umbilical cord blood storage in South India.** This paper details umbilical cord blood banking in Chennai, South India & examines the science & marketing of public and private cord blood banks with a focus on traditional methods of cord blood storage, thereby asking what happens when global science & technology collide with local cultures? C12

Papadaki-Anastasopoulou, Artemis (University of Vienna) **Plastic matters: the material politics of microplastics at the Environment Agency Austria.** The presentation explores the material politics of microplastics; how they become a matter of concern in the Environment Agency Austria and how classification practices matter. By attending to the procedural materialities of plastics it unfolds the entanglements of plastics, humans and environments. A12

Papadopoulos, Dimitris (University of Leicester) **Intensive scales: what is an ecologically obliged chemistry?** Based on research within leading green chemistry labs and fieldwork in sites of autonomous community chemical practice the talk explores the ecological becoming of chemistry: contingent experimentations with the singular ecological conditions in which chemical substances emerge. A04

Park, Jin Hee (Dongguk University) and Dong Kwang **Kim** (Korea University) **Citizen participation in open design for sustainable energy system.** See **Kim**, Dong Kwang.

Parkhurst, Aaron (University College London) and David **Jeevendrampillai** (University College London) **Towards an anthropology of gravity: body and affect in the extra-terrestrial.** See **Jeevendrampillai**, David.

Parmiggiani, Elena (University of Oulu / Norwegian Uni. of Science and Technology), Karen S. **Baker** (University of Oulu / University of Illinois at Urbana-Champaign), Andrea **Botero** (University of Oulu) and Helena **Karasti** (University of Oulu) **The role of research infrastructure formation strategies in opening and closing science.** See **Baker**, Karen S..

Parolin, Laura Lucia (University of Southern Denmark) **Situating STS within design practices: the concept of "network within".** In order to account for the specificity of design and design practices, STS need to be able to account for the details of design projects. Using ANT as a methodology, we propose to take into consideration the "network within" and its translations. B11

Parotte, Céline (University of Liège) **Dirty dancing on democratic stages: knowledge that matters in nuclear waste experiments.** This paper focuses on the co-production of publics and experts knowledges in nuclear waste experiments. Based on three situated experiments in Belgium, France and Canada, it compares the dance styles of nuclear waste management organizations dealing with active publics on democratic stages. V03

Pasveer, Bernike (Maastricht University) **Dying in place: almost at home.** This paper looks at how 'homeliness' is calibrated in residential Dutch hospices. It argues that institutional ways of providing for autonomy, control and privacy tend to prioritize over residents' other orderings of these and other values. **E05**

Paterson, Florence (Mines Paristech, CNRS, PSL) and Voloona **Rabeharisoa** (Centre de Sociologie de l'Innovation) **The "technopolitics of likelihood": the French National DNA Database (FNAEG) and the comparison of genetic profiles.** The technical and political dimensions of DNA profile comparison performed by the French National DNA database are considered in the light of internal discussions on the distinction between "rapprochement" and "identification". **C01**

Paterson, Florence (Mines Paristech, CNRS, PSL), Madeleine **Akrich** (Mines ParisTech) and Vololona **Rabeharisoa** (Mines ParisTech) **Forgetting about the sword of Damocles: how do people live with presymptomatic diagnosis?** See **Akrich**, Madeleine.

Patitsas, Elizabeth (McGill University) **Women's conferences in computer science: separating the advocates from the advocated for.** Since the 1990s, female computer scientists have been organizing conferences specifically for women in the field. I present an autoethnography of such a conference, discussing the structural factors at the conference which undermined the goal of improved female representation in computing. **C02**

Paul, Bettina (Universität Hamburg), Larissa **Fischer** (Universität Hamburg) and Torsten **Heinemann** (Universität Hamburg) **Modes of seeing and socio-technical visions in the research field of truth verification.** See **Fischer**, Larissa.

Paulos, Julio (ETH Zurich) **The city between object and subject: on analysing the reconfigurations of planning action.** The proposed paper inquires the knowing practices (Law, 2016) in spatial planning, in order to uncover the inter-objectivity of urban questions that configure the institutionalisation of urban politics and the multiplicity of planning practices in local authorities. **A05**

Pearce, Warren (University of Sheffield) **How do climate scientists use social media? Collusion and collision of personal, professional and epistemic contexts.** Climate scientists are increasingly visible on social media, drawing on personal, professional and epistemic contexts to communicate. This paper illuminates these contexts through innovative interviews, informing our understanding of climate science, climate politics and social media platforms. **V02**

Peer, Firaz (Georgia Institute of Technology) and Yanni **Loukissas** (Georgia Institute of Technology) **Unravelling power asymmetries within Atlanta's housing data assemblage.** See **Loukissas**, Yanni.

Pelizza, Annalisa (University of Twente) **Processing alterity, shaping the order of Europe.** The paper asks how contemporary data infrastructures for processing migrants and refugees at the border, as well as inside Europe, shape the European order. As such, it aspires to contribute to technology studies on the infrastructural construction of Europe. **E02**

Pelizza, Annalisa (University of Twente), Ermioni **Frezouli** (University of Twente) and Aristotle **Tympas** (National and Kapodistrian University of Athens) **"Something like hospitality": the "illegal" migrant in discourses and materialities regarding pre-removal centers and registration/ identification infrastructures after the EU-Turkey deal.** See **Frezouli**, Ermioni.

Pelzer, Peter (Utrecht University), Maarten **Hajer** (Urban Futures Studio) and Jesse **Hoffman** (Utrecht University) **Techniques of futuring: imagining sustainable cities of tomorrow.** See **Hajer**, Maarten.

Penders, Bart (Maastricht University) and Peter **Lutz** (Maastricht University) **Normativities of integrity - a matter of care.** See **Lutz**, Peter.

Penders, Bart (Maastricht University) **Research integrity as translation work: assumptions and practices of authorship in nutrition science.** Codes of conduct and research integrity guidelines harbour many assumptions on research practice. This paper focusses on assumptions in authorship criteria in nutrition science. It studies the organisation of research and asks whether assumptions fit the plural practices of nutrition science. **G06**

Penkler, Michael (Technical University of Munich) and Ruth **Müller** (Technical University of Munich) **Transgenerational epigenetics: intimate entanglements between being and knowing in a contested field.** See **Müller**, Ruth.

Pentenrieder, Annelie (University of Paderborn) **"Please make a legal U-turn". Construction works along navigation routes.** GPS navigation routes are influential infrastructures that car drivers access via their SatNav devices. Based on my ethnographic fieldwork I follow the question, which logics are inscribed in these routes and how spaces are structured by computable quantities for this human/ algorithmic routing. **B08**

Pereira, Laura (City University of London), Scott **Drimie** (University of Stellenbosch) and Olive **Zgambo** (Food and Agriculture Organization of the United Nations) **T-labs as transformative spaces: the case of alternative food networks in the Western Cape, South Africa.** See **Drimie**, Scott.

Perelló, Josep (Universitat de Barcelona) and Anna **Cigarini** (Universitat de Barcelona) **When co-creation of citizen science drives empowerment: an example from the mental health community.** See **Cigarini**, Anna.

Peres, Sara (University of Southampton) and Emma **Roe** (University of Southampton) **The value(s) of archiving transgenic mice: exploring the bioeconomies of animal research through a case study of mouse biobanks.** We explore bioeconomies of animal research via a case study of UK mouse biobanks. We argue that, in archiving mouse strains, they materialize assumptions, commitments and social relations central to animal research into frozen tissue laden with promissory ontological, ethical, and economic values. **V01**

Perez, Ignacio (University of Oxford) and Martin **Tironi** (Pontificia Universidad Católica de Chile) **The smart city as conscription device: negotiating the politics of emptiness in Santiago de Chile.** In this presentation, we describe how the notion of the Smart City in Santiago de Chile is translated, operating as 'conscription device' (Latour & Woolgar, 1986). Then, we analyse how the concept becomes a mechanism for enrolment, managing to create a political agenda without discussing politics. **C13**

Perng, Sung-Yueh (Tunghai University) **Taking responsibility together: unpacking promises and problems in civic hacking.** Civic hacking as a practice of taking responsibility together produces promises a collaborative future and also problems concerning forms of expertise, knowledge and responsible sociotechnical relations that become prioritised. The paper explores these issues with case studies in Dublin and Boston. C17

Perriam, Jessamy (Open University) **Organising demonstrations of public transport disruption: transport for London's use of social media management software.** This paper examines how public sector organisations use social media management software as an interface for handling customer enquiries or complaints. It does this through a case study of Transport for London's use of social media management software to provide commuters with service updates. B08

Perrotta, Manuela (Queen Mary University of London) and Alina **Geampana** (Queen Mary University of London) **Non-invasive predictions: visual predictive tools in IVF.** See **Geampana**, Alina.

Pesch, Udo (Delft University of Technology), Aad **Correljé** (Delft University of Technology), Eefje **Cuppen** (Delft University of Technology) and Toyah **Rodhouse** (Delft University of Technology) **Changing futures for gas in the Netherlands – exploring the role of the public in energy system change.** See **Correljé**, Aad.

Peters, Pim (Technische Universität München) **Meeting to plan the future of cycling: from technical to epistemic and recurrent objects.** This paper explores how planning coordinates multiple visions of the future city. Drawing on a multi-disciplinary planning meeting, I highlight the recursive nature of planning objects, paying attention to meetings as particular spaces where a re-description of planning objects unfolds. D01

Petersen, Imme (Technical University Braunschweig) and Corinna **Bath** (Technische Universität Braunschweig) **Teaching genetics with STS: an innovative program to make students fit for post-truth debates.** See **Bath**, Corinna.

Petersen, Katrina (Trilateral Research, Ltd) **Risky borders: designing togetherness using information technology for interoperability in disaster response.** What does it mean to use a border as a frame for togetherness? This paper examines how this tension is made to work in information technology for interoperability in disaster response to critically examine the ethics of responsibility, care, and contestation around risk. C17

Pettersen, Ida Nilstad (Norwegian University of Science and Technology), Hanne Cecilie **Geirbo** (University of Oslo) and Hanne **Johnsrud** (Link Arkitektur) **Exploring diverging visions of the future city using the tree as method.** See **Geirbo**, Hanne Cecilie.

Pfeffer, Jürgen (Technical University of Munich) and Katja **Mayer** (Technical University of Munich) **Anticipating the big law: flows of personal data.** See **Mayer**, Katja.

Pfotenhauer, Sebastian (Technical University of Munich), Luise **Ruge** (Technical University of Munich) and Alexander **Wentland** (Technical University of Munich) **The diversity of regional innovation cultures in the European Union: "conservative innovation" in Bavaria.** Many regions in the EU are struggling to reconcile the harmonization of innovation with local socio-economic traditions, politics, and identities. We explore how regions navigate this tension and express unique innovation cultures, while being part of the larger technopolitical landscape of the EU. **F11**

Pfotenhauer, Sebastian (Technical University of Munich), Erik **Aarden** (University of Vienna) and Joakim **Juhl** (Harvard STS / Aalborg University) **A solution looking for a problem? Interrogating the 'innovation imperative' and the 'deficit model' of innovation.** See **Aarden**, Erik.

Pfotenhauer, Sebastian (Technical University of Munich), Franziska **Engels** (WZB Berlin Social Science Center) and Alexander **Wentland** (Technical University of Munich) **Testing future societies - how test beds re-interpret and co-produce technology and society.** See **Engels**, Franziska.

Pfotenhauer, Sebastian (Technical University of Munich) and Verena **Kontschieder** (Technical University of Munich) **"A safe place to do dangerous things": Policy Labs as the future of policymaking in Europe.** See **Kontschieder**, Verena.

Phoenix, Jess (Lancaster University) **How can we do bovine Tuberculosis science? Boundary objects, method standardisation and divergent viewpoints in a 'Badger Found Dead Survey'.** This paper explores open science related to badgers and bovine Tuberculosis. Ethnographic findings detail how the use of 'boundary objects' in open science can reduce contestation between actors and open gates in the field, whilst only partly opening fragile gates to the laboratory and politics. **D03**

Pickard, Justin (University of Sussex) and Michelle **Kasprzak** (Madeira Interactive Technologies Institute) **Views from the edge: prototyping rapid ethnographic methods in Madeira.** See **Kasprzak**, Michelle.

Pidgeon, Nick (Cardiff University), Christopher **Groves** (Cardiff University) and Karen **Henwood** (Cardiff University) **Creating energy encounters with experts: a cultural probes-based approach.** See **Groves**, Christopher.

Pieri, Elisa (University of Manchester) **Participatory crisis governance and emergency planning for pandemic preparedness.** The paper is based on research investigating the social impacts of pandemic preparedness. It calls for an examination of the values and priorities inbuilt in current preparedness strategies, developed within policy and practitioner networks, and for a move towards participatory crisis governance. **A24**

Piterou, Athena (University of Greenwich) **The cash register as a mundane market device.** The cash register is discussed as a market device which configures retail transactions. The paper examines the changing functions of the cash register within the sociotechnical system of retail as it has evolved from early mechanical models to contemporary point-of-sales (POS) terminals. **V06**

Plájás, Ildikó (University of Amsterdam), Ryanne **Bleumink** (University of Amsterdam) and Lisette **Jong** (University of Amsterdam) **Composite method: experimenting with the absent presence of race in film and facial composite drawing.** See **Bleumink**, Ryanne.

Plájás, Ildikó (University of Amsterdam) **Permanent temporality: doing race and the citizen in practices of issuing temporary ID cards in Romania.** This paper looks at different temporalities at stake in the practices if issuing a temporary ID card in Romania. By closely examining the materialities, technologies and notions of citizenship, I argue that 'race' and 'racial otherness' has not only spatial but also temporal configurations. **E08**

Plasil, Tanja (Norwegian University of Science and Technology) **Best før, ofte god etter (best before, often good after) - the construction, practice and consequences of the expiration date of food in Norway.** I will present how today's date labelling was constructed and I then follow its practical consequences all along the food chain. Building on these findings, I want to invite participants to share their experiences with the expiration date and to discuss more sustainable ways of date labelling. **C28**

Pöchhacker, Nikolaus (Technical University of Munich) and Marcus **Burkhardt** (University of Siegen) **Learning in the wild: on the problem of adaptivity in machine learning.** See **Burkhardt**, Marcus.

Poderi, Giacomo (IT University of Copenhagen) **Articulating assemblages of playbour to question participation in ICT-based collaborative platforms.** This work aims at articulating playbour to open the space for a critique of participation in ICT-based collaborative platforms. The work focuses on the material and symbolic conditions that characterize playbour and provides the basis to frame issues such as alienation, detachment, and burnouts. **C23**

Poletti, Chiara (Cardiff University) **Social media governance, controversies and democratic possibilities.** Drawing on Science and Technology and Actor-Network Theory perspective, this study proposes to investigate the democratic potential and limitations within the governance system emerging from the controversy around Social Media platforms regulation and freedom of speech. **E09**

Poller, Andreas (Fraunhofer Institute for Secure Information Technology), Katharina **Kinder-Kurlanda** (GESIS Leibniz Institute for the Social Sciences), Laura **Kocksch** (Ruhr-University Bochum), Estrid **Sørensen** (Ruhr-Universität Bochum) and Susann **Wagenknecht** (University of Siegen) **Panel discussion: researching IT security.** See **Kinder-Kurlanda**, Katharina.

Pollozek, Silvan (Technical University of Munich) **Technologies of sensing and sense making. Frontex Screening and its socio-technical assemblage of truth assessment at Moria Hotspot, Greece.** This talk analyzes the socio-technical assemblage of Frontex Screenings, where so called "irregular migrants" with or without papers are identified, as a technology of sensing and sense making fabricating identities "true enough" and "processable" for further institutional sorting. **G01**

Pólvora, Alexandre (European Commission) and Susana **Nascimento** (European Commission, Joint Research Centre) **Extracting key learnings from a multi-sited urban citizen sensing project.** See **Nascimento**, Susana.

Pólvora, Alexandre (European Commission) and Susana **Nascimento** (European Commission, Joint Research Centre) **A Policy Lab approach between critical STS, technology foresight and design fictions.** See **Nascimento**, Susana.

Poort, Lonneke (Eramus School of Law) **How to organize stakeholders involvement in regulating technological issues? An argument for controversies-thinking.** This paper discusses the failures of opening up decisionmaking for stakeholders. Stakeholders-involvement can only be successful if it is clear what problem is and what expectations are.I explore the impact of controversies-thinking in decisionmaking on the organization of stakeholders-involvement. D02

Portela, Manuel (Universitat Jaume I) and Carlos **Granell** (Universitat Jaume I) **Geographies of light, affective atmospheres and digital sensory enhancements.** See **Granell**, Carlos.

Predebon, Lauren (Universidad de la República), Andrea **Bielli** (Universidad de la República, Uruguay) and Nancy **Calisto** (Universidad de la República, Uruguay) **Dilemmatic situations between benzodiazepine prescription recommendations and practices in Uruguay.** See **Bielli**, Andrea.

Price, Jessica (Cornell University) **Trade, war, law, and the creation of knowledge in early colonial Bombay.** This paper explores how knowledge of "others" was created in the pluralistic society of early colonial Bombay. Through a series of historical case studies it engages with STS debates on colonial science, and challenges what defines a "centre" or a "periphery.". V08

Prietl, Bianca (Technical University Darmstadt) **The rise of big data (technologies) as Eurocentric and androcentric endeavor.** Reconstructing the epistemological and ontological assumptions of big data analysis as put forward by its key proponents, this paper argues that the rise of big data and data-based learning algorithms can be understood as a Eurocentric and androcentric project. A27

Pritchard, Helen (Goldsmiths, University of London) **From Critter Chips to Critter Compilers - a fabulation of environmental computing otherwise.** Through ethnographic and fabulative engagements with "Critter Chips" I outline the exploitation of microbial life in the computational practices of a toxicology lab. In response I propose the artwork "Critter Compiler", a microbial novella writer that re-imagines environmental computing otherwise. A26

Prophet, Jane (Stamps School of Art & Design, University of Michigan) **Affective encounters with pollution data: growing augmented reality trees.** We discuss Pocket Penjing, an App developed through participatory design with 60+ people. Live Air Quality Data (AQD) is used to grow bonsai trees grows displayed growing in real-time 3D using augmented reality. More-than-human assemblages co-produce affective encounters with pollution data. A26

Psarikidou, Katerina (Lancaster University) **'Exchanging knowledge' around food: moving towards more inclusive research and policy agendas?** This paper investigates the contested research economic imaginaries of 'exchanging knowledge' around food and its implications for developing more inclusive and collaborative policy agendas. C28

Pujadas, Roser (London School of Economics and Political Science) and Daniel **Curto-Millet Digital platforms in the sharing economy: from matchmaking to boundary making.** See **Curto-Millet**, Daniel.

Pütz, Ole (Bielefeld University) **How the 'material agency' of computer programs manifests itself in project meetings.** This paper asks how the "material agency" (Pickering) of computer programs manifests itself in the discussions of developers. It argues that developers explore the technological possibilities and limitations of computer programs in their work and that these evolve over the course of a project. C20

Queirós, Filipa (University of Minho), Rafaela **Granja** (University of Minho) and Helena **Machado** (University of Minho) **The (in)visibilities of race through Forensic DNA Phenotyping technologies.** See **Granja**, Rafaela.

Raap, Sanne (Maastricht University), Klasien **Horstman** (Maastricht University) and Mare **Knibbe** (Mastricht University) **Tackling the problem of reach: a neighborhood knowledge collective in-the-making.** See **Horstman**, Klasien.

Raasch, Josefine (Ruhr University Bochum) **Evaluating the participation in epistemo-political practices.** This paper reflects on methods for and challenges of evaluating a participation in epistemo-political practices of a German umbrella organisation. It engaged skilfully into a variety of epistemic cultures, differing from each other in their daily practices of how they know and do democracy. E09

Rabeharisoa, Vololona (Mines ParisTech), Madeleine **Akrich** (Mines ParisTech) and Florence **Paterson** (Mines Paristech, CNRS, PSL) **Forgetting about the sword of Damocles: how do people live with presymptomatic diagnosis?** See **Akrich**, Madeleine.

Rabeharisoa, Voloona (Centre de Sociologie de l'Innovation) and Florence **Paterson** (Mines Paristech, CNRS, PSL) **The "technopolitics of likelihood": the French National DNA Database (FNAEG) and the comparison of genetic profiles.** See **Paterson**, Florence.

Raboldt, Myriam (KoMMa.G (TU Braunschweig)) **"... but the visual orientation of the mind persists". Of Kellerites, body talk and golden gypsies, so far: a journey to the inspirational roots of situated knowledges.** Donna Haraway not only draws inspiration from feminist but also from so-called mainstream science-fiction literature. How can reading those stories deepen our understandings of Haraway's concepts and inspire new ideas for integrating disability and gender studies into STS? B09

Rafols, Ismael (Universitat Politècnica de València) **Research portfolios as tools for opening up deliberations on priority setting.** Different types of research data are becoming increasingly available. They are used to conduct analyses of the research portfolios of organisations and funding agencies. These portfolio analyses can be used in for opening up deliberations on priority setting - although current use remains unclear. C16

Raghuram, Parvati (Open University) and Oliver **Zanetti** (University of Oxford) **Enacting social difference through smart city tech: the gathering of groupings through a platform.** Smart tech is rarely neutral. This paper examines how a new smart technology enacts social difference by gathering city dwellers into groups through queries run on its platform. This differentiation makes a difference, as residents become more or less able to participate in low cost energy markets. C13

Raimbault, Benjamin (Institut national de la recherche agronomique) **Bioengineering as a site of bio-objectivation.** We investigate bioengineering as a major site of bio-objectivation from the genealogy of bioengineering at MIT since the 70s. We show how bio-objects are central for chemical engineers to institutionalize bioengineering in the shadow of genetic engineering. C09

Raivola, Vera (University of Eastern Finland) **Makings of togetherness in blood.** Successful blood banks have the ability to bring volunteers to meet in blood donation. To mobilize donors they perhaps deploy utopian narrative of a community sharing blood and values. The presentation asks, what utopian or dystopian imaginaries might a blood bank biobank evoke in blood donors? C17

Rajão, Raoni (Universidade Federal de Minas Gerais) and Juliane **Jarke** (University of Bremen) **In data we trust? Negotiating data assemblages in the implementation of Brazil's climate targets.** See **Jarke**, Juliane.

Rajão, Raoni (Universidade Federal de Minas Gerais) and Theodore **Vurdubakis** (Lancaster University) **Economies of appearances: information technology and the management of (in)visibility in the Brazilian Amazon.** The paper draws upon an on-going study of the technologically mediated management of Amazonian deforestation. Focusing on its sociotechnical apparatuses of visibility it seeks to explore and highlight how the various labours of making-(in)visible are actually performed and with what consequences. A16

Rajtar, Malgorzata (Polish Academy of Sciences) **Managing sociocultural expectations of women with Turner Syndrome with biomedicine and technology.** Turner Syndrome is the most common sex chromosome disorder in women that is characterized by short stature and ovarian failure. I examine how agents embrace and/or question biomedical regimes and knowledge that aim at "improving" patients' biology so it meets a number of sociocultural expectations. A01

Raman, Sujatha (University of Nottingham), Richard **Helliwell** (University of Nottingham) and Carol **Morris** (University of Nottingham) **Making chemical infrastructures (in)visible: environmental imaginaries and the environmental sciences of antimicrobial resistance.** See **Helliwell**, Richard.

Ratner, Helene (Aarhus University) and Christopher **Gad** (IT-University of Copenhagen) **'Data basing' Danish educational governance - Relations, 'gaps' - and ontological experimentation.** See **Gad**, Christopher.

Reeves, Stuart (University of Nottingham) **On the embedding of voice agents in everyday home life.** This paper explores a series of empirical examples of voice interface use (Amazon Echo) in the home and the practical achievement of embedding this use into the organisation of action. A03

Reeves, Stuart (University of Nottingham) **Producing findings in an industrial usability testing lab.** Usability testing is an important approach in the shaping of product and service design outcomes in industrial settings. I present a study examining how findings are practically 'produced' in and as the work of stakeholders, both running tests and observing them as they unfold. F09

Regeer, Barbara (Athena Institute, Vrije Universiteit Amsterdam), Eva-Maria **Kunseler** (PBL Netherlands Environmental Assessment Agency) and Lisa **Verwoerd** (Athena Institute, Vrije Universiteit Amsterdam) **Meeting the diversified demands for knowledge: reconciling modernist and reflexive values for knowledge production.** See **Kunseler**, Eva-Maria.

Regeer, Barbara (Athena Institute, Vrije Universiteit Amsterdam), Eva-Maria **Kunseler** (PBL Netherlands Environmental Assessment Agency), Femke **Verwest** (PBL Netherlands Environmental Assessment Agency) and Lisa **Verwoerd** (Athena Institute, Vrije Universiteit Amsterdam) **Pursuing knowledge integration between modernist and reflexive cultures: lessons learned from two organised spaces for epistemic alignment.** See **Kunseler**, Eva-Maria.

Rehak, Rainer (Weizenbaum-Institut für die vernetzte Gesellschaft), Florian **Eyert** (Weizenbaum Institute for the Networked Society), Florian **Irgmaier** (Weizenbaum Institute for the Networked Society) and Lena **Ulbricht** (WZB Berlin Social Science Center) **A new form of social ordering? Investigating the impact of datafication practices on regulation.** See **Eyert**, Florian.

Reichmann, Werner (University of Konstanz) **"Epistemic participation" - co-creation of legitimate scientific knowledge and policy under the condition of extreme uncertainty.** In this paper, I use the case of economic policy to analyze the epistemic and organizational strategies to co-create legitimate scientific knowledge and legitimate democratic political power under the condition of extreme uncertainty. C21

Reins, Leonie (Tilburg University), Kärg **Kama** (University of Birmingham) and Aleksandra **Lis** (Adam Mickiewicz University) **Co-producing knowledge and publics amidst controversy: analysis of an EU expert network on unconventional hydrocarbons development.** See **Kama**, Kärg.

Reinsborough, Michael (University of West of England) **Social responsibility and gene-editing in wheat research.** Using tools such as CRISPR/Cas9, BrisSynBio researchers are working to modify human red blood cells, mitochondria and the recombination machinery of crop plants. This presentation reports on-going ethnography in the Bristol Cereal Genomics Lab. C27

Renaud, Clément (École polytechnique fédérale de Lausanne) **Foundational stories : words and the making of maker institutions in China.** This contribution shows how discourses around making and manufacturing in China by media and academics have introduced new dynamics of opposition and cooperation between institutional stakeholders in government or industry and smaller initiatives inspired by open-source practices. B06

Restrepo Forero, Olga (Universidad Nacional de Colombia) and Malcolm **Ashmore** (Loughborough University) **Why Bogotá? The local, the global, and the interesting. Or: STS, here and there.** See **Ashmore**, Malcolm.

Ribes, David (University of Washington), Charles **Hahn** (University of Washington), Andrew **Hoffman** (University of Washington), Sarah **Inman** (University of Washington) and Stephen **Slota** (University of California, Irvine) **Inciting infrastructural inversion: modes of engagement in the ethnography of data-intensive science.** See **Hahn**, Charles.

Ribes, David (University of Washington) **Prospecting the domains: data, knowledge, software and much else.** "Domain" is a keyword in contemporary data science ventures and a long standing keyword for the computing and information sciences. "Domain" serves to identify and bound a target for prospecting (or farming), and serves to organize relations between expert participants. A22

Richardson, Steven (Queen's University) **How to think like an accelerometer.** With proactive and personalized approaches to occupational health & safety on the horizon, a new class of wearable sensors are enabling worker's movements over the course of a shift, or even a career to become visible. But what does the sensor see? What do we see in the visualized and animated data? G05

Richmond, Karen (University of Dundee / European Graduate School) **Interdisciplinary research in law and forensic science: from 'silos' to systems.** This paper considers the limitations of subsisting theoreties, which characterize the tensions between law and science as a negotiation between contesting fields. Drawing on empirical research into DNA profiling, this paper proposes an alternate, autopoietic model of interdisciplinary co-production. C11

Richter, Johanna (Chemnitz University of Technology), Andreas **Bischof** (Chemnitz University of Technology) and Albrecht **Kurze** (Chemnitz University of Technology) **Your mother is watching you: lateral surveillance in smart homes.** See **Bischof**, Andreas.

Rickards, Lauren (RMIT University) and Ralph **Horne** (RMIT University) **Exploring problem-centred smart / digital urbanism in Australia.** See **Horne**, Ralph.

Rickards, Lauren (RMIT University) and Nigel **Clark** (Lancaster University) **Infernal encounters: extractive communities at the intersection of earth system and stratigraphic trouble.** See **Clark**, Nigel.

Riesch, Hauke (Brunel University London) **Science, faith and environmental apocalypse.** This paper will reflect on catastrophic environmental futures as a millennial narrative, drawing parallels between ecological apocalypse and millennial redemption narratives. A18

Rinkinen, Jenny (Lancaster University) and Elizabeth **Shove** (Lancaster University) **Materialising demand: transforming resources and services.** This paper explores how demand for resources and materials is derived from social practice. Re-introducing issues of demand to STS, it illustrates how increasing resource use can be addressed by seeing demand as dynamically constituted, actively made, and materially embedded. C07

Rios Sandoval, Mariana (University of Amsterdam) **The materiality of invisibility: on making EDCs into actionable objects.** Invisibility is often portrayed as something that makes endocrine disrupting chemicals difficult to grasp. I will argue that sometimes invisibility is far from being an obstacle for the apprehension of EDCs, but that it can rather be used to turn EDCs into objects about which something can be done. A29

Robaey, Zoe (Delft University of Technology) and Lotte **Asveld** (Delft University of Technology) **Inclusive biobased innovation for sustainability: a case study in Jamaica.** See **Asveld**, Lotte.

Roberge, Jonathan (National Institute of Scientific Research, Canada) and Kevin **Morin** (National Institute of Scientific Research, Canada) **From algorithmic cultures to machine learning and back.** See **Morin**, Kevin.

Roberts, Celia (Lancaster University) **Caring for cortisol: stress, violence and endogenous compounds.** Cortisol, the so-called 'stress hormone,' has become a compound to care for. We are asked to recognise when our cortisol levels are high and to try to bring them down. How can an endogenous compound become so dangerous? And what might the work of monitoring and managing cortisol look like? **A04**

Rock, Melanie (University of Calgary), Morgan **Mouton** (University of Calgary) and Olga **Solomon** (University of Southern California) **Have you seen this dog? Rendering more-than-human publics legible in urban settings.** See **Mouton**, Morgan.

Rodhouse, Toyah (Delft University of Technology), Aad **Correljé** (Delft University of Technology), Eefje **Cuppen** (Delft University of Technology) and Udo **Pesch** (Delft University of Technology) **Changing futures for gas in the Netherlands – exploring the role of the public in energy system change.** See **Correljé**, Aad.

Roe, Emma (University of Southampton) and Sara **Peres** (University of Southampton) **The value(s) of archiving transgenic mice: exploring the bioeconomies of animal research through a case study of mouse biobanks.** See **Peres**, Sara.

Rohden, Frauke (University of Gothenburg), Dick **Kasperowski** (University of Gothenburg) and Christopher **Kullenberg Epistemic cultures in citizen science and humanities: distribution, epistemic subjects, programs and anti-programs.** See **Kasperowski**, Dick.

Rohracher, Harald (Linköping University) and Johan **Niskanen** (Linkopings University) **Mainstreaming passive houses in Sweden: institutional perspectives from two regions.** See **Niskanen**, Johan.

Rohracher, Harald (Linköping University) and Michael **Ornetzeder** (Austrian Academy of Sciences) **Mainstreaming energy efficient buildings in Austria.** See **Ornetzeder**, Michael.

Rommetveit, Kjetil (University of Bergen), Kristrún **Gunnarsdóttir** (University of Surrey) and Niels **van Dijk** (Vrije Universiteit Brussel) **Make way for the robots! Roles for autonomy in building a European public-private partnership.** See **Gunnarsdóttir**, Kristrún.

Rommetveit, Kjetil (University of Bergen) and Niels **van Dijk** (Vrije Universiteit Brussel) **Right engineering for smart infrastructures? Tracing the techno-epistemic network of privacy by design.** This paper studies the techno-epistemic network emerging around the idea of designing privacy safeguards into smart ICT infrastructures and its techniques for stabilization and alignment. Through an extended peer consultation, tensions and limits are identified in addressing 'privacy by network'. **A19**

Röß, Andreas (Fraunhofer Institute for Systems and Innovation Research ISI) **Meeting between the scientist and the public: RRI as a challenging transformation of scientists' identity.** This paper aims to reflect the results of various workshops, which we carried out within a RRI project. Following Foucault, we read the RRI policy as a new form of governing the scientist. Based on empirical workshop results we illustrate the ambivalent outcomes of this subjectivation strategy. F03

Rose, Gillian (University of Oxford), Nick **Bingham** (Open University), Matthew **Cook** (Open University) and Alan-Miguel **Valdez** (Open University) **Smart cities in the making: learning from Milton Keynes.** See **Bingham**, Nick.

Rosengarten, Marsha (Goldsmiths University of London) **An appreciation for the extraneous in medical eradication of Ebola.** Eradication of Ebola is imperative for medical science. Yet its manner of involvement in human life warrants care for an appreciation for what A.N. Whitehead proposes as the principle of novelty in the creative advance of life. A04

Rosner, Daniela (University of Washington) **Why fabulate design?** This paper examines a case study of critical fabulation, ways of storytelling that rework how things that we design come into being and what they do in the world. B09

Rowland, Nicholas (Pennsylvania State University) and Matthew **Spaniol** (Roskilde University) **Potential public use of 'Opportunity Radars'.** As intellectual traffic between futures studies and science and technology studies deepens, identifying contributions that STS can make to FS has come into focus, and this presentation -- without irony -- imagines the potential public use of 'Opportunity Radars'. F10

Ruckenstein, Minna (University of Helsinki) **The market that fails to see.** Across various domains, from health to communication and politics, tracking and measurement is expanding and becoming ever more fine-grained. This paper discusses targeted marketing and ways of 'seeing' in the market-consumer relationship. G05

Rueppel, Jonas (Goethe-University Frankfurt) and Laura **Schnieder** (Goethe-Universität Frankfurt) **Destigmatization in/of psychiatry: is biomarker research the 'right tool for the job'?** The paper critically discusses the expectation, frequently expressed in the field of personalized psychiatry, that research into biomarkers leads up to a double destigmatization - of patients suffering from mental illnesses and the psychiatric discipline alike. C26

Ruge, Luise (Technical University of Munich), Sebastian **Pfotenhauer** (Technical University of Munich) and Alexander **Wentland** (Technical University of Munich) **The diversity of regional innovation cultures in the European Union: "conservative innovation" in Bavaria.** See **Pfotenhauer**, Sebastian.

Ruppert, Evelyn (Goldsmiths, University of London) and Francisca **Grommé** (Goldsmiths, University of London) **A citizen data app as an emergent para-site for official statistics: imagining citizens as more than data collectors and subjects.** See **Grommé**, Francisca.

Rushforth, Alex (University of Oxford) and Trisha **Greenhalgh** (University of Oxford) **Precision asthma medicine in primary care: a controversy study.** See **Greenhalgh**, Trisha.

Russell, Linda (Universidad Autónoma de Campeche), Said Jose **Abud** (CEPHCIS, Universidad Nacional Autónoma de México) and Wendy **Bazan** (Muuch Kambal A.C.) **Who decides what is fair and natural? Mayan beekeeper encounters with global fair trade cooperatives and organic product scientific standardisation and control.** See **Abud**, Said Jose.

Rutjes, Henriette (Helmholtz Centre for Environmental Research GmbH - UFZ), Alena **Bleicher** (Helmholtz Centre for Environmental Research GmbH - UFZ) and Martin **David** (Helmholtz Centre for Environmental Research GmbH - UFZ) **The role of framing technologies used by techno-scientific experts to make secondary resources.** See **Bleicher**, Alena.

Saatci, Banu (Aarhus University) **Conducting fieldwork at the crossroads: a case study of hybrid meetings in the workplace.** This paper discusses the experiences of conducting fieldwork at the crossroads of STS and ICT. Through the object of my study, hybrid meetings in companies, I reflect on problems of doing research, where accessibility, transparency and cooperation are central to research in private companies. **E06**

Saetnan, Ann Rudinow (Norwegian Institute for Science & Technology) and Rocco **Bellanova** (University of Amsterdam) **Resisting visualizations. A cross-species and cross-field comparative exploration - part 1.** See **Bellanova**, Rocco.

Safta-Zecheria, Leyla (Central European University) and Julie Sascia **Mewes** (Humboldt University Berlin) **Collaboration in and beyond the ethnographic field: overcoming epistemic asymmetries through collaborative practices in and beyond residential care settings.** See **Mewes**, Julie Sascia.

Sagebiel, Felizitas (University of Wuppertal) **Peer review and networks in STEM disciplines - a question of gendered Inclusion, exclusion and power?** Based on research the paper will discuss, how exclusion processes (in STEM) excellence construction are included in peer reviews and assessment procedures, focusing on the individual qualification and merit, while neglecting those factors as masculine power in gatekeeping, mentoring and networks. **E06**

Salles, Denis (IRSTEA), Julia **Barrault** (Université de Bordeaux), Helene **Budzinski** (Université de Bordeaux), Geoffrey **Carrere** (University of Toulouse-Jean Jaurès) and Vincent **Dufour** (University of Bordeaux) **Interdisciplinary study of the management at the source of pharmaceutical residues in the hospital: a chemical and a sociological analysis.** See **Barrault**, Julia.

Salmela, Mikko (University of Helsinki) and Johan **Munck af Rosenschöld** (University of Helsinki) **Cultivating and hampering interdisciplinary meetings: the role of institutional work.** See **Munck af Rosenschöld**, Johan.

Salt, Karen (University of Nottingham) and Naomi **Jacobs** (University of Aberdeen) **Transformative visions of IoT: whose visions, whose rights, whose responsibilities?** See **Jacobs**, Naomi.

Salvini, Francesco (University of Kent) **Ecology of care. A more-than-institutional analysis of healthcare in the urban space of Trieste, Italy, and London, UK.** This paper aims to develop a more-than-institutional analysis of contemporary healthcare systems, immersing the roles and responsibilities of caring and healing in a broader urban system done of actants, sites, relations, memories, protocols. The paper results from a collaborative analysis. **F02**

Salvini, Francesco (University of Kent) and Emilie **Cloatre** (University of Kent) **Indigenous epistemologies in global health: WHO regulation of traditional medicine since Alma Ata 1978.** See **Cloatre**, Emilie.

Samaras, Georgia (Technical University of Munich) **Environmental epigenetics and mental health research: enacting trauma in the lab.** This paper contributes to better understanding how environmental epigenetics refigures mental health research in the lab. It investigates how psychosocial trauma is transformed into a research object that is accessible in lab experiments and examines notions of pathology and therapy that co-emerge. **A01**

Sánchez de la Barquera, Xaviera (Umeå University), Nicholas **Baroncelli Torretta** (Umeå University) and Heather **Wiltse** (Umeå University) **Who gets to situate design? Reflections from engaging with diversity in design.** See **Baroncelli Torretta**, Nicholas.

Sanchez Vargas, Derly Yohanna (Lancaster University) **Doing 'good coffee'? Explorations on the sociomateriality of taste in the specialty coffee market.** This paper explores the sociomaterial entanglements that configure some coffees as 'speciality'. I describe such process by analysing the training of cuppers and baristas and the production of speciality varietals in coffee farms in Colombia. **C28**

Sangarapillai, Vahini (University of Nottingham) **Machine intelligence and inequalities in work and working futures.** Drawing on data from interviews with workers about experiences of work and imagined working futures with Robotics and Artificial Intelligence, I ask how hopes, fears and the capacity for envisaging working futures with machine intelligence are influenced by intersectional social inequalities. **C05**

Santaoja, Minna (University of Tampere) **Biodiversity databases - wishful meetings, differing ontologies.** I address Finnish attempts at collecting biodiversity data for the benefit of science, conservation, and society. Bulk of the data comes from volunteer citizen scientists, but harmonious meeting in data cannot be taken for granted, as the parties perceive data partly ontologically differently. **A06**

Santaoja, Minna (University of Tampere) and Mikko **Jauho** (University of Helsinki) **The introduction of sustainability into Finnish nutrition recommendations: a new dietary ontonorm in the making?** See **Jauho**, Mikko.

Sanvitale, Ginevra (Eindhoven University of Technology) **Imagined computer futures. Fear, technology and politics in Italian sociotechnical imaginaries (1977-1994).** Fear is a powerful resource for both political and technological discourse. This paper introduce the use of positive fear narratives as a tool to analyze sociotechnical imaginaries, presenting a case study on the popularization of personal computers in late 20th century Italy. **D01**

Sariola, Salla (University of Turku) and Elina **Oinas** (University of Helsinki) **Living-with microbes in the era of antimicrobial resistance.** See **Oinas**, Elina.

Sauer, Sabrina (University of Groningen) and Berber **Hagedoorn** (University of Groningen) **Telling stories about (re)search: research practices reconfigured by digital search technologies.** See **Hagedoorn**, Berber.

Sayman, Volkan (Technical University of Berlin), Sina **Birkholz** (Technical University of Berlin) and Jan-Peter **Voß** (Berlin University of Technology) **Doing "deliberative mini-publics": tracing translocal networks of experimentation with democratic innovations - does politics become technologized?** See **Birkholz**, Sina.

Schaefer, Teresa (Zentrum für Soziale Innovation GmbH), Barbara **Kieslinger** (Zentrum für Soziale Innovation GmbH) and Katja **Mayer** (Technical University of Munich) **Re-situating participatory social research in Citizen Social Science.** See **Kieslinger**, Barbara.

Schäfer, Stefan (Institute for Advanced Sustainability Studies) and Gabriel **Dorthe** (Institute for Advanced Sustainability Studies) **Constitutional climates: solar geoengineering in the co-production of climate expertise and global order.** See **Dorthe**, Gabriel.

Schaper-Rinkel, Petra (Austrian Institute of Technology) **Futures limited: innovations pathways in public foresight.** Public foresight as a policy practice to imagine and anticipate alternative futures produces often very 'limited futures'. The mainstreaming of possible futures towards innovation, jobs and growth is a result of processes and actors that are conceptualized to represent the public. F10

Scheele, Ricarda (University of Stuttgart) and Cordula **Kropp** (Uniuversität Stuttgart) **Politicizing energy futures in conflicting visions.** See **Kropp**, Cordula.

Schenuit, Felix (German Institute for International and Security Affairs) and Oliver **Geden** (Max Planck Institute for Meteorology) **Techno-fixes in theory and (political) practice: conditions and challenges for policy implementation.** See **Geden**, Oliver.

Schenuit, Felix (German Institute for International and Security Affairs) and Oliver **Geden** (Max Planck Institute for Meteorology) **Conceptual vs. actual use of Greenhouse Gas Removal.** See **Geden**, Oliver.

Schikowitz, Andrea (University of Vienna), Ulrike **Felt** (University of Vienna), Maximilian **Fochler** (University of Vienna) and Susanne **Oechsner** (University of Vienna) **The Science in Society Laboratories: training students to analyse contemporary techno-scientific controversies and develop normative recommendations.** See **Felt**, Ulrike.

Schille-Rognmo, Marthe (UiT The Arctic University of Norway) **Check here if you are mad, bad or sad: dLTC surveys and their consequences.** Through the study of 'apparatuses of observation, measurement and mapping' in digitalized, low transaction cost surveys, we provide a critical account of population health images that are produced and published with the combined authority of governmental agencies and the science of epidemiology. G07

Schmid, Christine (Humboldt-University Berlin) **"Between productive friction and productive fiction": juxtaposing two research projects on `Genesungsbegleitung` and their moments of friction.** This paper explores situations of productive friction by juxtaposing two different research projects taking shape around one common theme: The vocation of Genesungsbegleitung, a kind of care based on experiential expertise, which is currently professionalizing in psychiatric clinics in Germany. C04

Schneider, Tanja (University of St. Gallen) and Karin **Eli** (University of Oxford) **Digital eating: exploring the contours of platformed food.** See **Eli**, Karin.

Schnieder, Laura (Goethe-Universität Frankfurt) and Jonas **Rueppel** (Goethe-University Frankfurt) **Destigmatization in/of psychiatry: is biomarker research the 'right tool for the job'?** See **Rueppel**, Jonas.

Schönbauer, Sarah (Technical University of Munich) **At least a little bit of stability. How life scientists do identity work in today´s academia.** Scientists in today´s life sciences are in need of conforming to the demands for a successful career while trying to create belonging to their profession, their workplace or to other scientists. Hence, I explore how scientists act on and build their identity in between conformity and resistance. F03

Schrader, Astrid (University of Exeter) **Lenses and rhythms in the sea in crisis.** This paper explores interactions between changing bio- and geo-rhythms in tidal zones of the sea in environmental crisis, human temporal experiences and temporalities of scientific investigations in relation to the materiality of scientific lenses. A26

Schrape, Jan-Felix (University of Stuttgart) **Functions of media utopianism in innovation processes.** Media utopias can be regarded as productive types of communication: They serve to guide innovation, to direct a particular technology into a new societal context or to start an unconventional path of development. Through technology, society conceives itself as the creator of its own future. D01

Schroeder, Thomas Harboell (Chung Yuan Christian University) **Visions of green futures in energy research.** This paper makes a linguistic discourse analyses extracts from selected papers representing different branches of academic literature related to energy consumption and energy demand in order to reveal and critically reflect on values and visions of green futures in relation to energy use. A18

Schröpfer, Anton (Technical University of Munich) **Contribution Systems: how to re-think the politics of innovation as agencies without actors?** My paper is concerned with the political question how to reevaluate "the different forms of democracy within hybrid combinations of agencies that transform their word into a common one", namely an enterprising innovative European Union. My concept of Contribution Systems might help to do so. F11

Schubert, Cornelius (Universität Siegen) and Judith **Willkomm** (Universität Siegen) **From hospital to code and back again. Data transformations in interdisciplinary cooperation.** We offer insights into ongoing interdisciplinary research between neurosurgery, computer graphics, and sociology. We show how ethnographic data from a hospital ward is transformed in the research assemblage and how it is brought back to the hospital as systems design and sociological reflection. F07

Schulte-Römer, Nona (Helmholtz-Centre for Environmental Research GmbH – UFZ), Vera **Hickethier** (Helmholtz Centre for Environmental Research GmbH - UFZ) and Max **Söding** (Helmholtz-Centre for Environmental Research GmbH – UFZ) **Sustainable chemistry: concept, actors and activities.** See **Hickethier**, Vera.

Schultz, Susanne (Goethe University Frankfurt) **Reproductive medicine and biopolitical strategies in Germany.** The paper analyses how pronatalist strategies and IVF service provision are articulated within German policies, and is based on an interpretative analysis of policy consultancy papers. On this basis, a comprehensive intersectional analysis of reproductive technologies is suggested. F05

Schulz, Tobias (Swiss Federal Institute for Forest, Snow and Landscape Research) and Agnes **Harms** (Swiss Federal Institute for Forest, Snow and Landscape Research) **How procedural fairness influences the formation of willingness to cooperate in Switzerland's energy transition.** See **Harms**, Agnes.

Schulz-Schaeffer, Ingo (Technical University of Berlin) and Matthias **Bottel** (Technical University of Berlin) **The dependence of agile software project organization on agile software development tools.** See **Bottel**, Matthias.

Schulze Greiving, Verena (University of Twente), Paul **Benneworth** (University of Twente) and Kornelia **Konrad** (University of Twente) **Responsible innovation in eHealth? A comparison of projects, networks, and processes.** See **Benneworth**, Paul.

Schütz, Tim (Goethe University Frankfurt) **Hacking the shelter: infrastructural "counter publics" and the management of forced migration.** This article examines hacker technologies that aim to expand subversive infrastructural publics to German refugee shelters and camps, focusing particularly on wireless internet access and network surveillance. E01

Schwartz-Marin, Ernesto (Exeter University) and Arely **Cruz-Santiago The death, the living and the disappeared: bringing back absent bodies in mass atrocities through DNA, and cybernetic citizenship.** See **Cruz-Santiago**, Arely.

Sciannamblo, Mariacristina (Madeira Interactive Technologies Institute) **STS meet Participatory Design for social good: the case of Commonfare.** This paper discusses the interdisciplinary intersection between STS and design practice and the politics of the encounter between researchers, activists and local populations in the light of a European ICT and action-research project called Commonfare. C23

Scully, Jackie Leach (Newcastle University) **Epistemic authority in deliberative and interpretive empirical bioethics.** In this presentation I highlight an important distinction that has so far been underemphasised in empirical bioethics: between interpretive and deliberative methodologies, and in particular, the difference in the epistemic authority to which each can lay claim. C03

Seguin, Eve (Université du Québec à Montréal) **Exoplanetology as «proximisation» policy.** Combining the technical and scientific interests of several disciplines, exoplanet research turns out to be an exoplanet "proximisation" policy. Astronomy is thus a political endeavour in much the same way as 19th century microbiology. A17

Seifert, Franz **Converging in dialogue? Nanotechnology as multi- and transnational field of democratic experimentation.** The presentation outlines the analytic premises and preliminary results of an on-going research project focussing on dialogical experimentation regarding nanotechnology in France, Germany and the UK, drawing on concepts of political culture, policy diffusion and advocacy coalitions. E09

Seitz, Tim (Technische Universität Berlin) **Design thinking-apparatuses. The quality and scope of lab-solutions.** I present ethnographic data from design thinking-workshops and explore the epistemo-political work in these settings. Following a practice-oriented approach I discuss its specific problematizations and how they align with expectations of finding practicable solutions. **F09**

Shahare, Mahendra (Indian Institute of Technology Delhi) **Creating space and means for public participation in S&T - case of Art Science BLR.** Art Science BLR (ASB) at Bengaluru, India, works at the intersection of art-science. This paper argues that ASB initiated a new trajectory for public participation in S&T, and the constructed materialities in the process potentially allow alternative sites to engage in co-production of knowledge. **B06**

Shekeris, Haris (Charalambos) (Université Jean Moulin Lyon 3) **The state as facilitator and knowledge broker in the agora.** Ignorance plays a structural and political role in modern society. Proposals of division of cognitive labour and of Science certifying knowledge are to be criticised as excluding and disempowering lay-people. I propose citizen deliberation as a decision procedure for wicked problems situations. **E06**

Shih, Liwen (Taipei Medical University) **Risky pregnancy? Women's choice and risk accountability of non-invasive prenatal diagnosis in Taiwan.** This paper attempts to analyse how women account for risk-centred prenatal genetic screening and testing in Taiwan. It discusses the reduction of uncertainty from non-invasive prenatal diagnosis and its risk accountability of NIPD to the context of Taiwanese women's reproductive choice. **F05**

Shipworth, Michelle (University College London), Clare **Hanmer** (University College London) and Charlotte **Johnson** (University College London) **Heating controllers as boundary objects between homes and energy infrastructures.** See **Hanmer**, Clare.

Shipworth, Michelle (University College London), Russell **Hitchings** (University College London) and Catherine **Willan** (University College London) **'One is hypothetical and one is real…'. Accounting for "error" in low-carbon building performance.** See **Hitchings**, Russell.

Shove, Elizabeth (Lancaster University) and Jenny **Rinkinen** (Lancaster University) **Materialising demand: transforming resources and services.** See **Rinkinen**, Jenny.

Shulz, Sebastien (IFRIS, Université Paris-Est) **An "open" and/or "centralized" public service? Digital-common "Openfisca" case study.** This paper, through the Openfisca case study, will analyse the tensions emerging when an online public service is converted to become a «digital-common» (Fuster Morell, M. 2010) in a democratic experiment perspective, and the way actors try to solve those tensions. **E09**

Sigl, Lisa (University of Vienna), Ulrike **Felt** (University of Vienna) and Maximilian **Fochler** (University of Vienna) **Anticipation as a normative practice. Life science researchers' anticipatory practices between care and managerialism.** See **Felt**, Ulrike.

Silva Garzon, Diego (Graduate Institute of International and Development Studies) **Attributing qualities to seeds: expert meetings and farmers' workshops in the Colombian cotton sector.** This paper argues that expert meetings and farmers' workshops are used by providers of genetically modified seeds in Colombia to stabilise the qualities of their products when they do not perform as expected, attributing success and failure to different elements of their socio-technical networks. A25

Sims, Rosie (Graduate Institute of International and Development Studies) **Making urban laboratories: living with bioengineered mosquitos in Medellín.** This paper considers how in the context of a global health technology involving the release of bioengineered mosquitos, the city of Medellín is turned into a living laboratory produced by a variety of actors, and investigates how knowledge is made in a heterogeneous and contested setting. F09

Sismondo, Sergio (Queen's University) **Big pharma in public behind closed doors.** Much of my recent research has taken place at workshops and conferences at the edges of the pharmaceutical industry. I reflect on what these events accomplish for organizers and participants, and try to extend the lessons to other kinds of conferences. C02

Skeide, Annekatrin (University of Amsterdam) **Good at heart. Fetal heartbeat listening practices in midwifery care in Germany.** Drawing on ethnographic research in midwifery practices in Germany, I show how producing knowledge and creating intimacy are entangled in fetal heartbeat listening. I argue that in different monitoring practices, different intimate knowledges and knowledgeable intimacies are brought about. A15

Skelton, Maurice (ETH Zurich), David N **Bresch** (ETH Zurich/MeteoSwiss) and Suraje **Dessai** (University of Leeds) **Revisiting the 'thought styles' of Ludwik Fleck (1935): tracing knowledge transfer across 'thought collectives'.** See **Bresch**, David N.

Slota, Stephen (University of California, Irvine), Charles **Hahn** (University of Washington), Andrew **Hoffman** (University of Washington), Sarah **Inman** (University of Washington) and David **Ribes** (University of Washington) **Inciting infrastructural inversion: modes of engagement in the ethnography of data-intensive science.** See **Hahn**, Charles.

Smale, Robin (Wageningen University) and Gert **Spaargaren** (Wageningen University) **Home energy management in smart homes: what role for householders?** The potential role of smart home dwellers as 'co-managers' of energy is contested. A Dutch case study of how Home Energy Management practices are performed reveals how smart energy management technologies (fail to) facilitate novel trust relationships and take-up of low-carbon objectives and skills. A03

Smallman, Melanie (University College London) and Koen **Beumer** (Utrecht University) **Inequality matters - comparing discourses of innovation in UK and post-apartheid South Africa.** See **Beumer**, Koen.

Smith, Adrian (University of Sussex) and Cian **O'Donovan** (University of Sussex) **Human agency in post-automation: an analysis into the appropriation of digital design and fabrication technologies by crafters and coders in non-industrial settings.** See **O'Donovan**, Cian.

Smolka, Mareike (Maastricht University) **Controversy on the cognitive science of religion: when conflicting visions fuel epistemic conflicts.** The establishment of the cognitive science of religion (CSR) has stimulated a controversy in religious studies since the early 1990s. Analyzing the negotiation of visions in this controversy reveals the normative disagreements underlying epistemic conflicts in intra-disciplinary boundary work. D01

Snell, Karoliina (University of Helsinki) and Heta **Tarkkala** (University of Eastern Finland / University of Helsinki) **Nordic strategies to harness the "goldmine" of population data.** Biobanks and data repositories of Nordic countries have been identified as "goldmines" for personalized medicine. Population data is seen to enable economic growth, better health and sustaining of welfare services. We analyse and compare Nordic strategies and visions of goldmining population data. C26

Soderberg, Johan (Göteborg University) **The legal grey zone as an incubator of innovation: from drugs to pharma.** The case is made that the legal greyzone serves as an incubator for innovation in the "knowledge economy". This case is made by making a comparison between the position of the hacker/filesharer in the computer industry and the drug addict in the pharmaceutical industry. D04

Söding, Max (Helmholtz-Centre for Environmental Research GmbH – UFZ), Vera **Hickethier** (Helmholtz Centre for Environmental Research GmbH - UFZ) and Nona **Schulte-Römer** (Helmholtz-Centre for Environmental Research GmbH – UFZ) **Sustainable chemistry: concept, actors and activities.** See **Hickethier**, Vera.

Solbu, Gisle (Norwegian University of Science and Technology) **Pushing 'responsible stagnation': can scientists be agents of change?** In this talk my objective is to address the challenge of carving out a space to engage with alternative economic frameworks within current research and innovation practices, and ask the question of whether scientists can serve as agents of change. C15

Solé-Pomies, Roman (MINES ParisTech) and Brice **Laurent** (Mines ParisTech) **Cities as test fields. Urban innovation projects as democratic experiments.** See **Laurent**, Brice.

Solomon, Olga (University of Southern California), Morgan **Mouton** (University of Calgary) and Melanie **Rock** (University of Calgary) **Have you seen this dog? Rendering more-than-human publics legible in urban settings.** See **Mouton**, Morgan.

Sonderland Saga, Regine (Manchester Metropolitan University), Rachel **Dunk** (Manchester Metropolitan University) and Paul **O'Hare** (Manchester Metropolitan University) **University students' perspectives of a Smart City: integrating needs and aspirations.** See **Dunk**, Rachel.

Sormani, Philippe (Swiss Institute in Rome), Phillip **Brooker** (University of Liverpool) and Michael **Mair** (University of Liverpool) **Just what are we doing when we're describing AI? Harvey Sacks, the commentator machine and the descriptive turn in artificial intelligence.** See **Brooker**, Phillip.

Spaargaren, Gert (Wageningen University) and Robin **Smale** (Wageningen University) **Home energy management in smart homes: what role for householders?** See **Smale**, Robin.

Spaniol, Matthew (Roskilde University) and Nicholas **Rowland** (Pennsylvania State University) **Potential public use of 'Opportunity Radars'.** See **Rowland**, Nicholas.

Specht, Doug (University of Westminster) **Neogeography and the insurrection of knowledges.** This paper seeks to show the ways in which cartographic artifacts have been used in Latin America to go beyond spatial representations and towards eliciting competing localities and grounded truths which enunciate and draw conflict and insurrection to the centre of attention. A05

Spencer, Matt (University of Warwick) **Security and the DevOps imaginary.** This paper considers the relationship between information security and a recent paradigm shift in IT delivery methods. "DevOps" enacts a re-imagining of the IT delivery process, drawing on images of adaptive systems, and distributed authority, with implications for how security practices intervene. C24

Spencer, Michaela (Charles Darwin University) and Endre **Danyi** (Goethe University Frankfurt) **Cosmopolicy-in-practice.** See **Danyi**, Endre.

Spring, Jonathan (University College London) **Practicing a science of security.** Science of cyber security is a contested academic discipline. Many claim security is not or cannot be science. We dispute this view via context and counterarguments from STS research. Our focus is the security research community's perception of itself and to highlight avenues for STS to engage. C24

Spruit, Shannon (Delft University of Technology), Eefje **Cuppen** (Delft University of Technology) and Elisabeth **van de Grift** (Delft University of Technology) **Nuancing NIMBYism: examining perspectives on the practice of community engagement in energy projects.** See **Cuppen**, Eefje.

Spruit, Shannon (Delft University of Technology), Eefje **Cuppen** (Delft University of Technology) and Elisabeth **van de Grift** (Delft University of Technology) **Social conflicts in energy projects: exploring differences in moral appraisals through the lens of epistemic cultures.** See **Cuppen**, Eefje.

Stahl, Bernd (De Montfort University), Tyr **Fothergill** (De Montfort University) and Inga **Ulnicane** (De Montfort University) **Policy framing of risks and opportunities of an emerging technology: the case of Artificial Intelligence.** See **Fothergill**, Tyr.

Stephens, Neil (Brunel University London) **Big Tissue: on mass producing body parts in vitro.** Big Tissue - the promise and achievement of significant upscale in tissue engineering and biofabrication - will be analysed through four case studies: cultured skin, cultured blood, cultured meat, and biofabricated animal products. B01

Stevens, Carly (Lancaster University) **Nitrogen - too much of a good thing?** Nitrogen is essential for life but it is also a pollutant. Using a combination of scientific evidence of the negative impacts of nitrogen pollution and my experiences of researching this topic I will reflect on our changing relationship with nitrogen and the problems with communicating about it. A20

Stilgoe, Jack (University College London) **Responsible innovation as social learning.** Reframing machine learning in terms of responsible innovation allows us to focus on who is doing the learning and how. F01

Stockelova, Tereza (Institute of Sociology of the Czech Academy of Sciences) **Thinking through alternatives: a case of research on unconventional medicine.** Reflecting on my research concerned with unconventional medicine, I will think through the ways in which STS can and should relate to "alternatives" in the today "post-truth" world. I will argue that the ontological openness of a concrete practice is a key characteristic to be examined and valued. F04

Strand, Roger (Universitetet i Bergen), Zora **Kovacic** (Universitat Autònoma de Barcelona) and Thomas **Völker** (Joint Research Centre of the European Commission) **Circularity by the numbers. Enacting and imagining the circular economy through indicators.** See **Kovacic**, Zora.

Strandvad, Sara Malou (University of Groningen) and Anne Marie **Dahler** (University College Lillebælt) **Ways of encountering water: ethics of freediving.** See **Dahler**, Anne Marie.

Straußß, Stefan (Austrian Academy of Sciences) **(Big) data brokers, identity graphs and social sorting.** This contribution discusses practices of data brokers focussing on the production of identity graphs as core feature thereof. Automated mapping of individuals' identities serves various (indistinct) purposes including profiling, scoring, and social sorting with accordingly serious societal impacts. G03

Suckow, Silvio (WZB Berlin Social Science Center) **Imaginary friends - interdisciplinarity and digitalization as two imaginaries covering each other's back in times of uncertainty.** Based on expert interviews with PIs of a newly founded interdisciplinary institute on digital society this paper shows how scientists describe the two-year process of grant application. Therefore the PIs are cross-referencing the two imaginaries to enclose conflicts and legitimize the project. C11

Suhari, Mirko (Zeppelin University) **Transdisciplinary subjectivation. Negotiating scientific identities, skills, and normativities in the arena of sustainable energy transformations.** In the realm of energy transitions knowledge production have increasingly opened up towards transdisciplinary stakeholder participation, life-world problems, and the pluralization of expertise. The presentations explores framings and frictions of emerging subject positions. F03

Sundqvist, Göran (University of Gothenburg) **Balancing formalisation of procedures against professional judgement in synthesising science for policy purposes: the case of the IPCC.** The aim of this paper is to provide a better understanding of the interplay of formal tools and informal expertise in the IPCC work of producing assessment reports. In this respect, we focus on how the IPCC, in the new post-Paris situation, handles i) uncertainty management and ii) policy relevance. A08

Supper, Alexandra (Maastricht University) **"Within the frames that were laid out": 'independent' doctoral research in the projectified humanities.** Projectification puts tension on the conception of doctoral research in the humanities as a solitary transition from student to researcher. By analysing the Dutch 'Vidi' funding scheme, I trace tensions in the discourse of academic identity and 'independence' in collaborative research projects. F03

Swallow, Julia (University of Leeds), Choon Key **Chekar** (University of Leeds), Sarah **Cunningham-Burley** (University of Edinburgh) and Anne **Kerr** (University of Leeds) **Accomplishing complex genomic based multi-arm trials: Working with tissue, time and value.** See **Chekar**, Choon Key.

Syndercombe Court, Denise (King's College London), Veronika **Lipphardt** (University of Freiburg) and Matthias **Wienroth** (Newcastle University) **Intersecting discourses of security, commerce and race. Forensic DNA phenotyping and biogeographical ancestry prediction in the German public debate.** See **Lipphardt**, Veronika.

Synek, Michal (Charles University / Masaryk University), Radek **Carboch** (Masaryk University, Charles University) and Zdeněk **Konopásek** (Charles University) **Making clients to decide for themselves: turning people with learning difficulties into "modern subjects".** See **Carboch**, Radek.

Synek, Michal (Charles University / Masaryk University), Radek **Carboch** (Masaryk University, Charles University), Dana **Hradcova** (Faculty of Humanities Charles University) and Dita **Jahodová** (Faculty of Humanities, Charles University) **In between silence and re-describing matters of care: an attempt at ethnography of cognitive dis/ability.** See **Carboch**, Radek.

Sørensen, Estrid (Ruhr-Universität Bochum) **The continuity and translations of the river Emscher.** Steadily through the centuries, the river Emscher runs through the Ruhr District: once a landscape of swamps and streams, then a canal of toxic water and currently turned into technoscientific nature. I tell the story of the Emscher as a story of varying material-semiotic interrelations of care. **A14**

Sørensen, Estrid (Ruhr-Universität Bochum), Katharina **Kinder-Kurlanda** (GESIS Leibniz Institute for the Social Sciences) and Laura **Kocksch** (Ruhr-University Bochum) **Troubling the ordering in cybersecurity research.** See **Kinder-Kurlanda**, Katharina.

Sørensen, Estrid (Ruhr-Universität Bochum), Olga **Galanova** and Abigail **Nieves Delgado** (Ruhr University Bochum) **Opening (and closing) doors for security: negotiations of trust.** See **Galanova**, Olga.

Sørensen, Estrid (Ruhr-Universität Bochum), Katharina **Kinder-Kurlanda** (GESIS Leibniz Institute for the Social Sciences), Laura **Kocksch** (Ruhr-University Bochum), Andreas **Poller** (Fraunhofer Institute for Secure Information Technology) and Susann **Wagenknecht** (University of Siegen) **Panel discussion: researching IT security.** See **Kinder-Kurlanda**, Katharina.

Tabarés, Raúl (Tecnalia) **Open manufacturing as an alternative path for Industry 4.0.** The rising of "Industry 4.0" paradigm in Europe has posed different challenges that remain unsolved in the way to a post-industrial society. In this sense, open manufacturing emerges as an alternative enabler for this transition that can meet the gap that a new industrial revolution can create. **B03**

Taffel, Sy (Massey University) **Hopeful extinctions? Tesla, technological solutionism and the Anthropocene.** This paper explores why Tesla's self-declared 'War on fossil fuels' should not be taken seriously as a green future. Telsa relies on market-led technological solutionism based on the extraction of lithium, cobalt and other materials that perpetuate globalised forms of social and ecological harm. **A18**

Tanninen, Maiju (University of Tampere) **Domesticating digital insurance.** Digital insurance, which utilizes sensors to track and influence insured's behaviour, has become increasingly common. In my presentation, I discuss the effects of insurtech-based governance and analyse the ways the policyholders domesticate digital insurance in their everyday practices. **G03**

Tanweer, Anissa (University of Washington) **Bias in, bias out: urban mobility in data science for social good.** STS scholars and critics of big data know that data-intensive and algorithmically mediated systems can reify and reproduce inequities; sometimes, so do designers and analysts. I present two case studies of "data science for social good" teams confronting bias in their urban mobility projects. A28

Tarkkala, Heta (University of Eastern Finland / University of Helsinki) and Karoliina **Snell** (University of Helsinki) **Nordic strategies to harness the "goldmine" of population data.** See **Snell**, Karoliina.

Taubert, Niels (Bielefeld University) **Inclusion into the communication system of science - self-archiving and the use of pre-prints in astronomy and mathematics.** The contribution focuses on the role of green OA for the inclusion of authors and readers in the communication system of science. The analysis show that the routines of both roles are complementary allowing a specific but restricted use of pre-published research. D03

Taylor, Alex (City, University of London) and Abigail **Durrant** (Northumbria University) **Modelling cells in risky comakings and devious worlds.** See **Durrant**, Abigail.

Taylor, Alexander (University of Cambridge) **Meet the solar monster: space weather security in the data centre industry.** Drawing on ethnographic fieldwork conducted in high-security data centres, this paper explores how the electromagnetic energies and agencies of the heliosphere are being brought into political organisation as existential risks for techno-planetary futures. A21

Taylor, Ken (Newcastle University) and Simon **Woods** (Newcastle University) **Responsible innovation in action: spaces for socio-ethical reflection on synthetic biology.** Great claims have been made for synthetic biology, yet being based on genetic modification techniques, societal concerns might be expected. Working with a team of synthetic biologists we have created both formal and informal discursive spaces in which Responsible Innovation concepts can be applied. C03

Tempini, Niccolo (University of Exeter) and Sabina **Leonelli** (University of Exeter) **Actionable data for precision oncology: developing a trustworthy data source.** See **Leonelli**, Sabina.

Testa, Giuseppe (European Institute of Oncology / University of Milan) and Ilaria **Galasso** (European Institute of Oncology) **Precision medicine benefitting populations? Discourse of altruism around precision medicine cohorts.** See **Galasso**, Ilaria.

Thompson, Aaron (University of Georgia), June **Brawner** (University of Georgia) and Jennifer **Thompson** (University of Georgia) **"You can taste it in the wine": making minerality matter in post-socialist Hungary.** See **Brawner**, June.

Thompson, Andie (University of Amsterdam) **Transmutations in communities of expertise: being a good scientist in the innovation ecosystem.** Institutions are preparing scientists to enter the "innovation ecosystem" by facilitating pathways. The absence and presence of productive frictions can illuminate particular forms of confluence and logical misalignments. What is the future of collaboration in biocapital formations? C04

Thompson, Jennifer (University of Georgia), June **Brawner** (University of Georgia) and Aaron **Thompson** (University of Georgia) **"You can taste it in the wine": making minerality matter in post-socialist Hungary.** See **Brawner**, June.

Thorsen, Line Marie (Aarhus University) **Artful farming and articulations of ecological care.** This paper focus on the art collective Hong Kong Farmers + Sense Art Studio at the Japanese triennale Echigo Tsumari. I will suggest that they artfully and aesthetically translate Anthropocene issues across scales in order to articulate everyday attachments to food and produce as matters of ecological care. A16

Tichy, Florian (Technical University of Munich) **Crafting education: professionalization of makers in a collaboration with schools.** This paper follows a collaboration between a FabLab and several schools. In the process the makers become professional educators, but also somewhat independent from the community of the lab. Making here becomes care work in education practices, raising tensions with the FabLab. B06

Timur Ogut, Sebnem (Istanbul Technical University), Ali O. **Ilhan** (Ozyegin University) and Harun **Kaygan** (Middle East Technical University) **Uses of ANT in design research: towards a critical dialogue.** See **Ilhan**, Ali O..

Tironi, Manuel (Pontificia Universidad Católica de Chile) **Cosmic compounds, or electromagnetic politics against the Anthropocene.** Following geophysicists as they measure geomagnetic and geoelectric field variations in a seismic fault in central Chile, I ask: What can we learn from their ecologies of practice and modes of attention to and with electromagnetics to endure in, and hopefully exit from, the Anthropocene? A04

Tironi, Manuel (Pontificia Universidad Católica de Chile) **Intimate evidence, experimental politics: DIY citizen sensing and the regimes of perceptibility of slow disasters.** We present an experimental exercise of citizen sensing of PM2.5 using DIY sensors in Puchuncaví, Chile, to think about the political affordances of producing and collectivizing pollution data at the domestic scale. A24

Tironi, Martin (Pontificia Universidad Católica de Chile) and Ignacio **Perez** (University of Oxford) **The smart city as conscription device: negotiating the politics of emptiness in Santiago de Chile.** See **Perez**, Ignacio.

Tischberger, Roman (Augsburg University) **Error-driven development? On confluences between agile development methods, the character of software and errors as actors.** The contribution focuses on the question how practices of social organisation with Scrum, an 'agile' software development method, emerge from basic principles of software. Both, software and Scrum, try to set structures in order to avoid errors, which can be seen as actors, disrupting communication. C20

Tobias-Renstrøm, Sebastian (Aarhus University) and Morten **Nissen** (Aarhus University) **Reconfiguring motivation as emerging motives in evolving collectives.** See **Nissen**, Morten.

Torres, Guillén (University of Amsterdam) **Can a state resist its citizens? On the ontological multiplicity of Open Government.** This conference paper focuses on various instances in which Mexican institutions have (willingly or not) obstructed citizens' access to government information, thus preventing them to join decision making processes. E07

Toupin, Sophie (McGill University) **Anticolonial science and technology: seizing the means of liberation?** In this presentation I ask two interrelated questions: what does it mean to do anticolonial science and technology? And, how does Frantz Fanon's work inform our thinking about doing anticolonial STS? C12

Trauttmansdorff, Paul (University of Vienna) **The making of (digital) space for European border security.** Borders have increasingly been mediated by digital technologies. Examining the massive roll-out of digital borders, relying on sensor systems that collecting data of people on the move can bring to the fore the making of digital space and the digital making of space for European border security. A19

Trencher, Gregory (Tohoku University) **Towards a smart city 2.0: smartness as a tool for tackling social problems.** This paper examines Aizuwakamatsu Smart City in Fukushima, Japan in a socially stressed region to demonstrate how a 'smart city 2.0' can transcend top-down techno-economic ambitions to use technologies and data as tools for tackling endogenous social challenges and addressing resident needs. A10

Tromp, Coyan (Institute for Interdisciplinary Studies, University of Amsterdam) **Comparing visions via scenario development.** Combining systems and design thinking in participatory scenario and vision development. F10

Tsai, Yu-Yueh (Academia Sinica) and WanJu **Lee** (Academia Sinica) **The missing publics: Taiwan Biobank, controversy, and democratic governance.** See **Lee**, WanJu.

Tseng, Fan-Tzu (Academia Sinica) **Negotiating medicalisation: the clinical practice of ADHD in paediatric psychiatry.** This study explores the clinical practices of childhood ADHD, and focuses on how psychiatrists react to the related medical and social controversies. Whilst considering back and forth between psychiatry as an imperfect science and as a contentious aid, practitioners manage to negotiate competing concerns in a constantly medicalising society. F02

Turkmendag, Ilke (Newcastle University), Paul **Martin** (University of Sheffield) and Michael **Morrison** (University of Oxford) **Something old, something new, something borrowed: genome editing as a disruptive technology.** See **Martin**, Paul.

Turkmendag, Ilke (Newcastle University) and Paul **Martin** (University of Sheffield) **Patient power? The influence of Rare Disease Patient Organisation on the development of gene therapy and genome editing.** See **Martin**, Paul.

Turnbull, Thomas (Max Planck Institute for the History of Science) **Can machines learn to save energy?** In 2017 DeepMind entered talks with National Grid plc to discuss the possibility of teaching an AI to save energy nationwide. In this presentation, in order to deflate such claims, this idea is situated against a long history of ideas regarding the causal relation between intelligence and entropy. F01

Tutton, Richard (Lancaster University) **Silicon Valley and the multiplanetary imaginary.** Elon Musk and other Silicon Valley figures believe that humanity will be a multiplanetary species. I explore these actors' imaginings of human futures and how they justify efforts to settle Mars as a hedge against or an exit from what Haraway (2016) calls our disturbing/mixed-up/troubling times. A21

Tyfield, David (Lancaster University), Nils **Markusson** (Lancaster University) and Duncan **McLaren** (Lancaster University) **The techno-politics of negative emissions.** See **Markusson**, Nils.

Tympas, Aristotle (National and Kapodistrian University of Athens), Ermioni **Frezouli** (University of Twente) and Annalisa **Pelizza** (University of Twente) **"Something like hospitality": the "illegal" migrant in discourses and materialities regarding pre-removal centers and registration/ identification infrastructures after the EU-Turkey deal.** See **Frezouli**, Ermioni.

Tympas, Aristotle (National and Kapodistrian University of Athens) and Kostas **Latoufis** (National Technical University of Athens) **Makeshift Engineering: practicing the craft of locally manufactured small wind turbines.** See **Latoufis**, Kostas.

Ufer, Ulrich (Karlsruhe Institute of Technology) and Sadeeb Simon **Ottenburger** (Karlsruhe Institute of Technology) **Smart urban risks in decontextualized tech-visions.** See **Ottenburger**, Sadeeb Simon.

Ui Chonnachtaigh, Sorcha (Keele University) **Medicine meets the intersex body: the creation of sex and the creation of a disorder.** The work of Karkazis (2008) unequivocally shows the medical invention of sex (in modern times) and the work of Dreger (1998) demonstrates that when the intersex body meets with "medical men", it is the subject of examination, fascination, and dispute. Ultimately, medics decide the "true" sex. F08

Ulbricht, Lena (WZB Berlin Social Science Center), Florian **Eyert** (Weizenbaum Institute for the Networked Society), Florian **Irgmaier** (Weizenbaum Institute for the Networked Society) and Rainer **Rehak** (Weizenbaum-Institut für die vernetzte Gesellschaft) **A new form of social ordering? Investigating the impact of datafication practices on regulation.** See **Eyert**, Florian.

Ulnicane, Inga (De Montfort University), Tyr **Fothergill** (De Montfort University) and Bernd **Stahl** (De Montfort University) **Policy framing of risks and opportunities of an emerging technology: the case of Artificial Intelligence.** See **Fothergill**, Tyr.

Unternährer, Markus (University of Lucerne) **Doing experiments on customer data: customer data as epistemic object.** Drawing on fieldwork in a swiss customer loyalty firm, I retrace a process of matching categories and customers. Using the concept of epistemic objects, I describe the ever expanding und contracting view of the customer, and connecting it to the firm's perceived need to experiment. G05

Ureta, Sebastian (Universidad Alberto Hurtado) **Encountering anthroposols: vitality, risk and anger on Tierra Amarilla.** Aiming at messing up conventional scientific narratives, this presentation will present three encounters with anthroposols on Tierra Amarilla, a mining district in northern Chile. A04

Ustek-Spilda, Funda (Goldsmiths, University of London) and Marja **Alastalo** (University of Eastern Finland) **CTRL+ALT+DEL: software sorted exclusion of asylum seekers in European population statistics and emergent subjectivities.** See **Alastalo**, Marja.

Uzun, Nil (Rutgers University) **The global supercomputer race: geopolitics and the discourse of competitiveness.** This paper investigates the global race for the fastest supercomputers and how governments employ and operationalize a rhetoric of competitiveness. Analyzing official communications, I outline the discursive space of supercomputing policies and show how this translates into the scientific field. F06

Vadhavana, Chandni (Central University of Gujarat) **Intersectionality, power dynamics and visibility of women in science.** The paper explores the culture of science studies within technological institutes, through a sociological lens focusing on the relations between gender, race, caste and class prevalent in laboratories from an STS perspective to understand the in/visibility and marginalization of women in science. E06

Valdez, Alan-Miguel (Open University), Nick **Bingham** (Open University), Matthew **Cook** (Open University) and Gillian **Rose** (University of Oxford) **Smart cities in the making: learning from Milton Keynes.** See **Bingham**, Nick.

Valkenburg, Govert (Leiden University) **Building cultures of integrity: the interaction between promotion structures and research integrity.** Integrity emerges (or not) in a context of organizational culture. This paper discusses integrity in relation to one part of that culture, namely the promotion and assessment procedures by which researchers' careers are steered. The study focuses on University Medical Centers in the Netherlands. G06

Vallès-Peris, Núria (Universitat Autònoma de Barcelona) and Miquel **Domènech** (Universitat Autònoma de Barcelona) **Empirical imaginaries of care robots in a children's hospital.** See **Domènech**, Miquel.

Valve, Helena (Finnish Environment Institute) and David **Lazarevic** (Finnish Environment Institute) **Re-ordering material flows for renewable energy production or manure management: the emergence of biogas production in Finland.** See **Lazarevic**, David.

van de Bovenkamp, Hester (Erasmus University Rotterdam), Roland **Bal** (Erasmus University Rotterdam) and Sabrina **Huizenga** (Erasmus University Rotterdam) **Urban labs as resilience practices.** See **Bal**, Roland.

van de Grift, Elisabeth (Delft University of Technology), Eefje **Cuppen** (Delft University of Technology) and Shannon **Spruit** (Delft University of Technology) **Nuancing NIMBYism: examining perspectives on the practice of community engagement in energy projects.** See **Cuppen**, Eefje.

van de Grift, Elisabeth (Delft University of Technology), Eefje **Cuppen** (Delft University of Technology) and Shannon **Spruit** (Delft University of Technology) **Social conflicts in energy projects: exploring differences in moral appraisals through the lens of epistemic cultures.** See **Cuppen**, Eefje.

van der Kist, Jasper (University of Manchester) **Harmonising the country of origin information infrastructure.** This paper investigates the country of origin information infrastructure. By analysing the frictions that occur between national research units as well as European efforts to overcome them, it asks how this emergent knowledge system becomes implicated in the European governance of asylum. E02

van der Meulen, Barend (Rathenau Instituut) **The bureaucratization of research integrity.** This paper studies research integrity as a new object of management. Cases of alleged misconduct have led to new bureaucratic infrastructures. Such infrastructures formalize what used to be implicit within practices of doing science and, as a result, create new understandings of research integrity. G06

van Dijk, Niels (Vrije Universiteit Brussel), Kristrún **Gunnarsdóttir** (University of Surrey) and Kjetil **Rommetveit** (University of Bergen) **Make way for the robots! Roles for autonomy in building a European public-private partnership.** See **Gunnarsdóttir**, Kristrún.

van Dijk, Niels (Vrije Universiteit Brussel) and Kjetil **Rommetveit** (University of Bergen) **Right engineering for smart infrastructures? Tracing the techno-epistemic network of privacy by design.** See **Rommetveit**, Kjetil.

van Hees, Susan (Tilburg University) and Katrien **Luijkx** (Tilburg University) **Giving voice to unheard older adults. Participation technologies for knowledge-making-practices.** See **Luijkx**, Katrien.

van Hout, Annemarie (Windesheim University of Applied Sciences) **The case of Bob: caring for telecare by nurses and researchers.** When researching a telecare practice, different forms of good care appear. Through the case of Bob, a patient of a telecare project, I will discuss normativity-in-the making of nurses and researchers. I will show how different forms of good care can become bad care and what good research should be. F04

Van Hoyweghen, Ine (KU Leuven) and Joke **Kenens** (SCK•CEN Belgian Nuclear Research Centre) **Citizen science after the Fukushima nuclear accident: an encounter with bottom-up crisis management and post-disaster recovery.** See **Kenens**, Joke.

van Lente, Harro (Maastricht University) **Space tourism: a case of novel needs.** In this paper I will investigate the contested case of space tourism and the various ways in which new needs are mobilized. Struggles for the prospective market for space tourism bring forth particular visions of the future of space tourism and of novel needs. A17

Van Oudheusden, Michiel (KU Leuven) and Go **Yoshizawa** (Osaka University) **Radiation monitoring after Fukushima: rearticulating "citizen science" as active citizenship.** This paper illustrates how radiation monitoring by citizen scientists has emerged as a public issue in post-Fukushima Japan, and how citizen-initiated monitoring transforms ostensibly passive citizens into active citizen scientists. It asks how such processes reconfigure science and society. C22

Vanderslott, Samantha (University of Oxford) **Politicising or depoliticising public participation: civil society lobbying and e-petitions in pro-vaccination public support.** This paper explores public participation in the introduction of a new vaccine by interrogating the politicising and depoliticising elements for influencing policymaking. It argues the democratic involvement of publics can be better understood by determining what is meant by politicisation and why. E09

Varga, Judit (University of Nottingham) **Tracing data transformations.** This methodological paper outlines an ethnographic approach to studying how social media data is used in social research. The approach draws on various frameworks in STS and related fields, and outlines techniques that can trace material, methodological and epistemological transformations of data. G03

Vaz, Federico (Loughborough University in London) **Mapping design methods for public policy innovation in European Policy Labs.** This paper discusses the emergence of design approaches for policy innovation in Europe, mobilized through specialised government bodies known as Policy Labs. We mapped which design practices are being deployed at each stage of the policymaking cycle to innovate how public policies come into being. F09

Velkovska, Julia (Orange Labs), Clair-Antoine **Veyrier** (SENSE, xdlab, Orange Labs) and Moustafa **Zouinar Engaging with smart assistants, reshaping home activities.** Drawing on a video-ethnographic study of the usage of voice assistants, we examine how users engage with these systems and how this engagement may reshape everyday home activities. We also consider the social implications of IVAs seen as mediators connecting the inside and the outside of the home. A03

Venturini, Tommaso (École Normale Supérieure Lyon) **The experts network.** Introducing a Database of IPCC Authors and Delegates and discussing its possible uses. A08

Venturini, Tommaso (École Normale Supérieure Lyon) **Teaching to problematise digital infrastructures through data activism.** This paper reflects on use of data activism as a pedagogical tool to train students in problematising data infrastructures and digital technologies. C16

Vermeulen, Niki (University of Edinburgh) and Andrea **Nunez Casal** (Goldsmiths, University of London) **Finding a place in science: the role of institutional configurations in the formation of scientific identity.** See **Nunez Casal**, Andrea.

Verwest, Femke (PBL Netherlands Environmental Assessment Agency), Eva-Maria **Kunseler** (PBL Netherlands Environmental Assessment Agency), Barbara **Regeer** (Athena Institute, Vrije Universiteit Amsterdam) and Lisa **Verwoerd** (Athena Institute, Vrije Universiteit Amsterdam) **Pursuing knowledge integration between modernist and reflexive cultures: lessons learned from two organised spaces for epistemic alignment.** See **Kunseler**, Eva-Maria.

Verwoerd, Lisa (Athena Institute, Vrije Universiteit Amsterdam), Eva-Maria **Kunseler** (PBL Netherlands Environmental Assessment Agency) and Barbara **Regeer** (Athena Institute, Vrije Universiteit Amsterdam) **Meeting the diversified demands for knowledge: reconciling modernist and reflexive values for knowledge production.** See **Kunseler**, Eva-Maria.

Verwoerd, Lisa (Athena Institute, Vrije Universiteit Amsterdam), Eva-Maria **Kunseler** (PBL Netherlands Environmental Assessment Agency), Barbara **Regeer** (Athena Institute, Vrije Universiteit Amsterdam) and Femke **Verwest** (PBL Netherlands Environmental Assessment Agency) **Pursuing knowledge integration between modernist and reflexive cultures: lessons learned from two organised spaces for epistemic alignment.** See **Kunseler**, Eva-Maria.

Veyrier, Clair-Antoine (SENSE, xdlab, Orange Labs), Julia **Velkovska** (Orange Labs) and Moustafa **Zouinar Engaging with smart assistants, reshaping home activities.** See **Velkovska**, Julia.

Vidmar, Matjaz (University of Edinburgh) **Innovation meets Outer Space: transforming networks, organisations and people.** The "New Space" era is noted for a paradigm shift in the Space Science, Exploration and Industry. This paper examines how this "inward and outward encounter with Outer Space" affects innovation networks, SMEs and, finally, people. **A21**

Vitellone, Nicole (University of Liverpool) **Taking sides: the syringe and the problem of description.** This paper is concerned with research methods and their descriptive effects. Focusing on Howard Becker's sociology of drug use it addresses the politics of descriptive methods as relational practices that produce meetings between objects, people, publics and policy. **B11**

Vlantoni, Katerina (National and Kapodistrian University of Athens) and Constantinos **Morfakis** (National and Kapodistrian University of Athens) **Rethinking the public versus private debate on UCB biobanking: the participation of donors in the processes of shaping UCB biobanking configurations in Greece.** See **Morfakis**, Constantinos.

Vlasenko, Polina (Indiana University, Bloomington) **The political economy of transnational ova flows: Ukrainian ova market and its global connections.** The present paper is the first to fill in the gap in the existing STS literature by analyzing the processes of the generation and appropriation of the economic value of ova produced in Ukraine for the exchange on the global reproductive market. **G02**

Vlassis, Vasilis (IT University Copenhagen) **Criminalisation and identity at the margins of EU databases.** This paper examines the way that legislations governing the use of systems and databases designed for purposes as different as law enforcement and migration control intertwine with the practices of different Member States, by looking at the correlation between EURODAC and the Prüm Convention. **E02**

Vogel, Else (Linköping University) **Persistent attachments: chronic pain and the post-ANT theoretical repertoire.** The paper details rehabilitation practices where persistent pain is configured as an effect of ambiguous and heterogeneous sets of attachments. I explore how these therapies, that enact lives as always becoming-in-relation, help to self-reflexively sharpen post-ANT analytic terms and attachments. **B05**

Völker, Thomas (Joint Research Centre of the European Commission), Zora **Kovacic** (Universitat Autònoma de Barcelona) and Roger **Strand** (Universitetet i Bergen) **Circularity by the numbers. Enacting and imagining the circular economy through indicators.** See **Kovacic**, Zora.

von Laufenberg, Roger (University of St Andrews) **Postulated consumers - big data in a marketable world.** This paper looks at how knowledge about consumers is co-produced for marketing purposes through big data, which is perceived as being objective and infallible. This has the possibility of changing how knowledge is used in marketing settings, affecting marketing professionals and consumers alike. **G03**

von Verschuer, Franziska (Goethe University Frankfurt/Main) **Freezing life, escaping death? Cryonics as a meeting point of transhumanist visions.** Cryonics, the research into and practice of freezing dead bodies for future reanimation, is analysed from a Feminist STS perspective. This makes visible the dualist and hierarchical understanding of Man vs. nature and the essentially humanist - rather than trans- or posthumanist - argumentation. **V04**

Voß, Jan-Peter (Berlin University of Technology), Sina **Birkholz** (Technical University of Berlin) and Volkan **Sayman** (Technical University of Berlin) **Doing "deliberative mini-publics": tracing translocal networks of experimentation with democratic innovations - does politics become technologized?** See **Birkholz**, Sina.

Vurdubakis, Theodore (Lancaster University) and Raoni **Rajão** (Universidade Federal de Minas Gerais) **Economies of appearances: information technology and the management of (in)visibility in the Brazilian Amazon.** See **Rajão**, Raoni.

Wackers, Ger (UiT The Arctic University of Norway) **Reality capturing states of mind.** This paper provides a critical analysis of various digitalized agencies of observation that purport to assess a population ́s mental health from imprints in digitally captured data. **G07**

Wade, Matt (Nanyang Technological University) **Emerging inequalities in advocating for life itself: innovations in crowdfunding medical expenses and the assetization of moral worthiness.** Innovations in crowdfunding medical expenses have grown rapidly. However, as views of moral worthiness determine donations - rather than need - what emerges is the assetization of 'virtue'. Are we therefore witnessing modes of governance and philanthropy that risk exacerbating health inequalities? **C05**

Wagenknecht, Susann (University of Siegen), Katharina **Kinder-Kurlanda** (GESIS Leibniz Institute for the Social Sciences), Laura **Kocksch** (Ruhr-University Bochum), Andreas **Poller** (Fraunhofer Institute for Secure Information Technology) and Estrid **Sørensen** (Ruhr-Universität Bochum) **Panel discussion: researching IT security.** See **Kinder-Kurlanda**, Katharina.

Walker, Gordon (Lancaster University) **Sorting out the particles: following nano-particulates and their mobilities.** Particles ubiquitously circulate and accumulate and are central to the politics of air quality. We follow ongoing developments in the science of particulate toxicity and mobility focusing on how nano-particles travel to and accumulate in the brain and the complex implications that are emerging. **A20**

Wallenburg, Iris (Erasmus University Rotterdam), Roland **Bal** (Erasmus University Rotterdam) and Dara **Ivanova** (Erasmus University Rotterdam) **The co-laborator: place-making through laboratization practices in a living lab construction.** See **Bal**, Roland.

Waller, Laurie (Technical University of Munich) **Grounding public engagement in data: some experiments to 'issue-fy' vertical farming.** The concept of "vertical farming" has recently provided a focus for debates about the technology and infrastructure of sustainable food. This paper discusses some engagement experiments involving social media data and attempts to 'issue-fy' vertical farming as a concern for sustainable food publics. **C16**

Waltemathe, Michael (Ruhr-University Bochum) and Elke **Hemminger** (Protestant University of Applied Sciences Bochum) **Beyond moral judgement: enhancing technology awareness of students in the social sciences and humanities.** See **Hemminger**, Elke.

Walwyn, David (University of Pretoria) **Energy regulators as mediators or managers? A case study in South Africa.** Energy regulators can play an essential role within national energy systems. In South Africa, the national regulator has implemented consultative processes to solicit public debate on pricing and other issues. However this role can be highly conflicted, as will be debated in the paper. D02

Wang, Chao (University of Sheffield) **How do environmental planning knowledge and environmental policies travel in Chinese metropolis? An urban assemblage study of 'Sponge Cities' in Shanghai.** This paper uses 'urban assemblage' as a concept to explore collective sociotechnical processes. It aims to find out which knowledge, policies, people have been paid particular attention and which have been silenced when environment knowledge transferring process take place in Chinese metropolis. E06

Wang, Jr-Ping (National Kaohsiung University of Science and Technology) and Wen-Ling **Hong** (National Kaohsiung University of Science and Technology) **When engineering practices encountered the unacceptable, unpredictable, unthinkable: how STS can shed light on engineering education reform in Taiwan.** See **Hong**, Wen-Ling.

Wark, Grace (University of Calgary) and Ryan **Burns** (University of Calgary) **Where's the database in digital ethnography? Exploring database ethnography for open data and smart cities research.** See **Burns**, Ryan.

Warnke, Philine (Fraunhofer Institute for Systems and Innovation Research ISI) and Andreas **Röß**, (Fraunhofer Institute for Systems and Innovation Research ISI) **Meeting between the scientist and the public: RRI as a challenging transformation of scientists' identity.** See **Röß**, Andreas.

Waterton, Claire (Lancaster University) **Doing and re-doing phosphorus relations.** This paper traces some contemporary doings and re-doings of the chemical element, phosphorus (or 'P'). I pay especial attention to the indeterminate and ambivalent nature of P connections in two agricultural situations in the UK in order to make spaces for re-considering and re-ordering P relations. A20

Watts, Laura (University of Edinburgh) **We come to sublime electric worlds.** Sunset over an island sea, a tide energy turbine comes out of eclipse and the world changes for me, for many. That world is in the spaces between words. The encounter, empirical, infrastructured, electric, sublime, is silent under the skin. How to write this silence as empirical method? A13

Weber, Jutta (University Paderborn) **Auto-management as governance? Predictive analytics in counter-insurgency and marketing.** In my paper I will analyze whether and how the automated management and decision making can be interpreted as a new way of governance. Therefore, I will compare applications of predictive analytics in counter-insurgency and marketing. A27

Weichselbraun, Linda (University of Gothenburg) **Conceptions of the transgender brain: from binary, sex reversed and pathological to something beyond?** Drawing on field notes, documents and interviews, I highlight how the `transgender brain ´has been researched and conceptualized in the last two decades, and how such conceptions reflect and impinge on understandings of sex/gender, transgender identity and boundaries between health/pathology. F08

Weig, Doerte (KU Leuven) **The more-than of acceptable resonances in traffic mobilities.** Contrasting two distinct mobility situations in non-urban and urban environments, my contribution highlights the (un)acceptability of collisions in the ways and rhythms of enacting traffic and in the resonating mobile togetherness of human and more-than human actors. A26

Weiner, Kate (University of Sheffield) and Catherine **Will** (University of Sussex) **Partial vistas: records, self-monitoring and everyday data practices.** We consider everyday tracking practices, focussing on record keeping, charting and visualising. Looking across the range and combinations of records people create and keep, and what they do not record, retain or review, we ask what is being made visible and to whom? G05

Welz, Gisela (Goethe University Frankfurt) **Three kinds of milk. Interferences in food quality assurance regimes.** Food quality assurance may interfere with environmental integrity and sustainable regional development in unexpected ways. Engaging with a case study in the Republic of Cyprus, the paper unravels multiple effects of the implementation of the EU's Protected Designation of Origin (PDO) label. C28

Wember, Carla (University of Kassel) **Embodied citizenship - politicizing gendered inequalities in local food networks.** Food is a site of gendered inequalities. How is this addressed in local food systems that promise to be alternatives to an unsustainable agricultural system? This paper shows that, while local food systems perpetuate inequalities, they can also be sites of emancipatory food citizenship. A25

Wentland, Alexander (Technical University of Munich), Sebastian **Pfotenhauer** (Technical University of Munich) and Luise **Ruge** (Technical University of Munich) **The diversity of regional innovation cultures in the European Union: "conservative innovation" in Bavaria.** See **Pfotenhauer**, Sebastian.

Wentland, Alexander (Technical University of Munich) and Nina **Witjes** (Technical University of Munich) **Tinkering with humans? Social engineering and the construction of the "deficient user" in cyber security.** Social engineering in cyber security refers to ways in which hackers use human vulnerabilities to penetrate technical systems. Our talk focuses on how hackers and SE experts attribute (ir)responsibilities to the users, as they imagine possible solutions to the supposed "people problem.". C24

Wentland, Alexander (Technical University of Munich), Franziska **Engels** (WZB Berlin Social Science Center) and Sebastian **Pfotenhauer** (Technical University of Munich) **Testing future societies - how test beds re-interpret and co-produce technology and society.** See **Engels**, Franziska.

Westby, Margaret (Metropolitan College of New York) **Sensing a constellation: dancing forward a desirable future.** How can contemporary techno-feminism generate a constellation of hopes, solidarities, and intersectional practices in order to dance forward a desirable future? I present an analysis and reflection on an interactive installation "Sensing a Constellation" (2017) by goldjian and Westby. B09

Widger, Tom (Durham University) **What is a poison? Disambiguation and ethics in the agrochemical industry.** What is a poison? I argue that for anthropologists, poison emerges from, and captures, ambiguity. I trace this idea, first, to the poisons contained in gifts and, second, to the poisons produced by industrial capitalism. A29

Widmer, Sarah (University of Neuchâtel) **Navigations to personalized destinations: Foursquare and the calculation of subjects of locational tastes.** This paper examines how the personalized local search engine Foursquare mediates its users' navigations and practices of place-finding in urban space, by profiling them as "subjects of locational tastes". B08

Wiedmann, Astrid (University of Siegen) **"Permaculture ky ki?"- The transformation of knowledge and meaning in development aid.** Based on seven months of ethnographic fieldwork in a primary school in Uganda, this paper addresses the processes of cultural transformation and translation of the concept permaculture between a local NGO, teachers and pupils. A05

Wienroth, Matthias (Newcastle University), Veronika **Lipphardt** (University of Freiburg) and Denise **Syndercombe Court** (King's College London) **Intersecting discourses of security, commerce and race. Forensic DNA phenotyping and biogeographical ancestry prediction in the German public debate.** See **Lipphardt**, Veronika.

Wieser, Bernhard (Graz University of Technology) and Martina **Lang Imaginaries of acceptance.** See **Lang**, Martina.

Wilbraham, Susan (University of Cumbria) and Elizabeth **Caldwell** (University of Huddersfield) **Meeting gender in space: visual imagery in children's science books.** See **Caldwell**, Elizabeth.

Wilkinson, Joann (Lancaster University) **Ovulation biosensors: emerging practices of sensing and knowing.** In this presentation, I examine women's practices of ovulation biosensing. I show how women come to know ovulation by engaging in reproductive scientific practices at home and by collaboratively coding the data they collect about their bodies with other women online. A01

Will, Catherine (University of Sussex) and Kate **Weiner** (University of Sheffield) **Partial vistas: records, self-monitoring and everyday data practices.** See **Weiner**, Kate.

Willan, Catherine (University College London), Russell **Hitchings** (University College London) and Michelle **Shipworth** (University College London) **'One is hypothetical and one is real...'. Accounting for "error" in low-carbon building performance.** See **Hitchings**, Russell.

Willems, Dick (Academic Medical Centre, University of Amsterdam) **The dream of precision: normative shifts in recent medicine.** The relatively recent concept of personalized medicine (PM) is already getting renamed as precision medicine (also PM). I will argue that this implies shifts in normativity that borrow from practices of both technical precision (as in tailoring) and precision warfare (as in 'magic bullets'). F04

Willems, Willemine (Maastricht University) **How to be nudged, and be just at the same time? Exploring an innovation in the organisation of health care as a practice of justification and critique.** This paper explores an innovation in the delivery of health care. By holding specialized consultations in a primary care setting, patient and specialist are nudged towards making cheaper decisions. The presented ethnographic research shows how such a strategy turns out in practice. F02

Willis, Rebecca (Lancaster University) **Climate strategies as experiments in democracy: evidence from a mixed-method study of national politicians.** Radical reductions in emissions are required to meet internationally agreed climate targets, yet there is little public support for action. This paper presents data from a study of UK politicians to discuss experiments in democracy which may reconcile democratic government with action on climate. **E09**

Willkomm, Judith (Universität Siegen) and Cornelius **Schubert** (Universität Siegen) **From hospital to code and back again. Data transformations in interdisciplinary cooperation.** See **Schubert**, Cornelius.

Wilson-Kovacs, Dana (University of Exeter) **The use of digital forensic expertise in crime investigation: views from the field.** Drawing on fieldwork in progress, STS scholarship and practitioner literature, this paper examines the organisational settings of digital forensics work and the ways in which the expertise it entails is understood, both in the context of policing and in relation to other forensic sub-disciplines. **V02**

Wiltse, Heather (Umeå University), Nicholas **Baroncelli Torretta** (Umeå University) and Xaviera **Sánchez de la Barquera** (Umeå University) **Who gets to situate design? Reflections from engaging with diversity in design.** See **Baroncelli Torretta**, Nicholas.

Windle, Amanda (University of the Arts London) **Re-crafting indexical issues: a spherology of feminisms explicated by visual means.** This paper is a walk through a multiplicity of feminisms, that constitute a spherology of being-in something. By way of data visualisation the indexicality to a philosophy of spheres is disentangled through a craft of alchemy to uncover a spherology of feminisms. **B09**

Winter, Martin (Technische Universität Darmstadt) **The co-production of (fake) meat and masculinities.** Veganism is on the rise. While meat is gendered masculine, the gendering of vegetarian meat alternatives is strongly contested. I will analyse how in processes of production and marketing (fake) meat, knowledge, gender and (gendered) bodies are co-produced. **A25**

Winter, Peter (University of Sheffield) **Normal x-ray images and entrenchment: visualising problematic anatomy.** I explore medical imaging professionals value of expectation as a quality of entrenched relations teaching x-ray image interpretation. The focus is on the entrenchments and highlightings that appear important for learning to see normal anatomy (present) and abnormal anatomy (absent) in the image. **E04**

Winters, Niall (University of Oxford), Jade Vu **Henry** (UCL Institute of Education) and Martin **Oliver** (UCL Institute of Education) **Situating design in a mobile phone research intervention to train Kenyan health workers: the design-reality gap as a lateral concept.** See **Henry**, Jade Vu.

Winthereik, Brit (IT University of Copenhagen) and Noortje **Marres** (University of Warwick) **Situational analytics.** See **Marres**, Noortje.

Winz, Marc (University of Neuchâtel) **Bio-sensing in research on the city-psychosis nexus: theoretical and methodological challenges of a mixed-method approach.** This paper discusses opportunities and limits offered by a mixed-methodological approach - combining physiological data through the monitoring of skin conductance and qualitative data¬ - for studying how people diagnosed with schizophrenia experience urban environments. **C04**

Witjes, Nina (Technical University of Munich) and Michael **Clormann** (Technical University of Munich) **The panopticon reversed? A mutual perspective on and from Earth and Outer Space.** See **Clormann**, Michael.

Witjes, Nina (Technical University of Munich) and Alexander **Wentland** (Technical University of Munich) **Tinkering with humans? Social engineering and the construction of the "deficient user" in cyber security.** See **Wentland**, Alexander.

Witte, Annika (University of Goettingen) **Toxic technology: a risk discourse on agrochemicals in Cameroon.** This paper analyses the risk discourse on the toxicity of agrochemicals in Cameroon. It considers who the risk agents are, what knowledge they draw on and who they accord the blame. It looks at the activities through which the risk is promoted and that seek to regulate it. A29

Wittock, Nathan (Ghent University) and Lesley **Hustinx** (Ghent University) **EU blood supply risk governance and MSM deferral in Europe: longitudinal case study of sociotechnical imaginaries mobilized in the public debate on the deferral of Men who have Sex with Men in Belgium.** See **Hustinx**, Lesley.

Wöhlert, Romy (University of Leipzig) and Anna **Kosmützky** (Leibniz Universität Hannover) **Beyond cosmopolitans and locals: international research collaboration and academic identity formation.** See **Kosmützky**, Anna.

Wood, Lisa (Lancaster University) **"Feed 'em and flog 'em": socio-technical enactments of togetherness in ambulance work.** Drawing on observations of ambulance call centres and paramedic work, I describe how togetherness is enacted in ambulance work. I argue the importance of looking beyond aggregated technological descriptions of togetherness to explore social effects. C17

Woods, Ruth (Norwegian University of Science and Technology) **The zero emission kindergarten at Lø: a contested site for a zero emission future.** Planning zero carbon neighbourhoods is on the political agenda in larger Norwegian cities, but sustainable visions can be contested. Using a zero emission neighbourhood in Lø as an example, methods to bridge the gap between sustainable visions and existing practice will be considered. C19

Woods, Simon (Newcastle University) and Ken **Taylor** (Newcastle University) **Responsible innovation in action: spaces for socio-ethical reflection on synthetic biology.** See **Taylor**, Ken.

Woolliscroft, Tim (Sheffield Hallam University) **Could smart community improve healthcare efficiency?** This study engages with bottom up vs top down ideas in relation to healthcare efficiency. Smart community theory is developed through a framework that opens up divisions within top-down and bottom-up ideas. It concludes that the most desirable approach would focus on the collective bottom up ideas. A10

Yang, Chihyuan (Lancaster University) **Enacting a responsive energy technology in the aftermath of a disaster: locality, materiality and an alternative imagination.** Nationalist high modernism was the dominant sociotechnical imaginary in Taiwan and obsessed with nuclear power. In the aftermath of a massive flood, what is the possibility of enacting an alternative which attributes energy technology to the feelings, identities and materiality grounded in locality? A30

Yli-Kauhaluoma, Sari (University of Helsinki), Nina **Janasik-Honkela** (University of Helsinki) and Mika **Pantzar** (University of Helsinki) **Imagining human-centric data futures: an analysis of the visual conventions of personal finance, health and integrated data management tools.** See **Janasik-Honkela**, Nina.

Yndigegn, Signe Louise (IT University of Copenhagen) and Marie **Ertner** (University of Copenhagen) **Matters of time - the different times of technological innovation and care practice.** See **Ertner**, Marie.

Yoshinaka, Yutaka (Technical University of Denmark) **(Re)framing engagements in and with design - abduction, design synthesis, and the implication of heterogeneous actors through 'domestication'.** The paper addresses abductive sensemaking in design synthesis informed by the domestication of technology approach. It discusses the design relevance of understanding how heterogeneous actors are implicated across units of analysis in processes of domestication and their heterogeneous underpinnings. **B07**

Yoshizawa, Go (Osaka University) and Michiel **Van Oudheusden** (KU Leuven) **Radiation monitoring after Fukushima: rearticulating "citizen science" as active citizenship.** See **Van Oudheusden**, Michiel.

Yuille, Andy (Lancaster University) **Expertise and agency in neighbourhood planning.** This paper explores how, rather than straightforwardly enabling knowledge that already exists in the community to have effect, Neighbourhood Planning creates new centres of translation, which are themselves effectively de-centred by their relations with a network of existing accredited experts. **A05**

Zanetti, Oliver (University of Oxford) and Parvati **Raghuram** (Open University) **Enacting social difference through smart city tech: the gathering of groupings through a platform.** See **Raghuram**, Parvati.

Zaród, Marcin (Kozminski University) **Stabilized instability. hacking tournament as a laboratory.** Capture the Flag is a tournament in hacking, revolving around breaking and defending computer systems. How this game contributes to construction of knowledge in computer security? How instability might be stabilized? Paper is based on ethnographical study of several competitions, done within ANT. **B06**

Zgambo, Olive (Food and Agriculture Organization of the United Nations), Scott **Drimie** (University of Stellenbosch) and Laura **Pereira** (City University of London) **T-labs as transformative spaces: the case of alternative food networks in the Western Cape, South Africa.** See **Drimie**, Scott.

Zingerle, Simon (University of Vienna) **Premediating a deep future: visualizations of deep geological repositories for radioactive waste.** Building on a comparison of two promotional videos that envision the construction and operation of deep geological repositories for high level radioactive, this presentation explores the material politics of computer generated visualizations. **E04**

Zouinar, Moustafa, Julia **Velkovska** (Orange Labs) and Clair-Antoine **Veyrier** (SENSE, xdlab, Orange Labs) **Engaging with smart assistants, reshaping home activities.** See **Velkovska**, Julia.

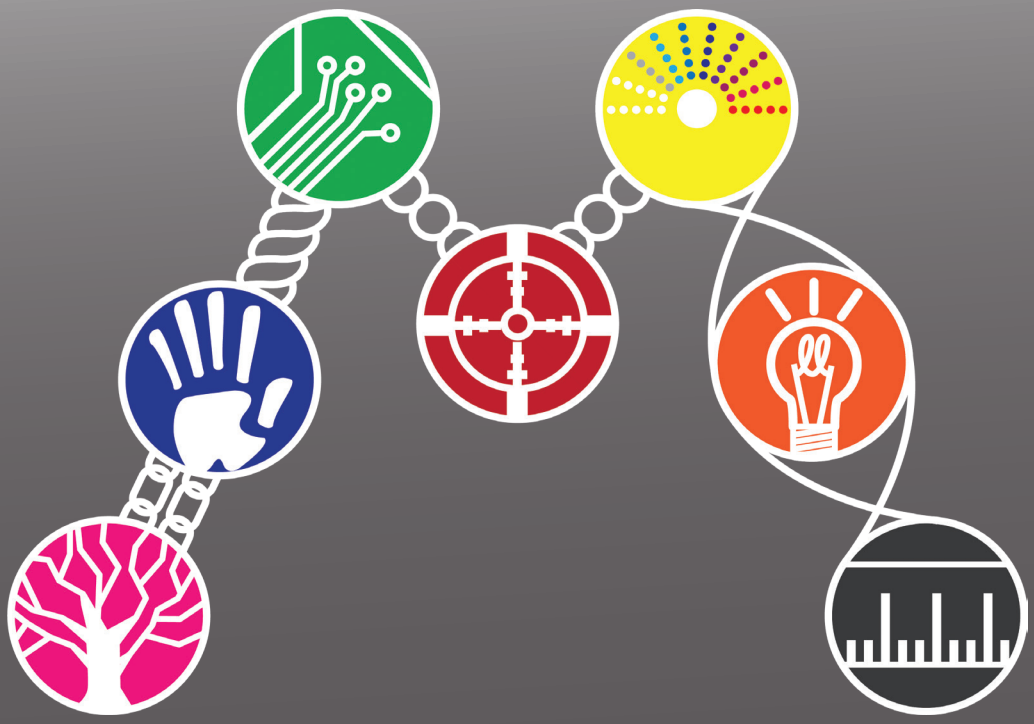
Zraunig, Christopher (University of Amsterdam) **Memory and the cityscape. Assemblage thinking in memories about the AIDS epidemic in New York City.** The cityscape is a crucial element of memories, when these are conceptualized as more or other than representational of the past, but instead as assemblages consisting of material and immaterial components. Such an approach also elicits the multiple temporalities of supposedly passed events. **A13**

Zuiderent-Jerak, Teun (Linköping University) **Integrating different knowledges in clinical practice guidelines: exploring the third space between epidemiology and science and technology studies.** How is co-founding a working group of the Guidelines International Network on Appraising and Including Different Knowledge (AID Knowledge) in guidelines neither 'not' STS nor a 'hybrid' of STS and epidemiology? By considering it a training ground for putting oneself into perpetual translation. **C14**

zur Nieden, Andrea (Albert-Ludwigs-Universität Freiburg) **Race in the New Life Sciences: how to analyze social and scientific effects of biological differentiations in Germany?** The proposed paper intends to introduce and discuss with you the overall concept and first empirical findings of our newly established research group "Human Diversity in the New Life Sciences: Social and Scientific Effects of Biological Differentiations". **E08**

Østmo, Liv (Sámi University of Applied Sciences) and John **Law On Sámi words and lakes: mistranslation as colonisation.** See **Law**, John.

Łuksza, Aleksandra (Nicolaus Copernicus University) **Whom do we fear? Between pop-cultural myth and hacking collectives - negotiations on the meaning of hack.** The pop-cultural construction of the hacker's image is influential and it shapes media discourses around hacking. In my paper I use ANT with other perspectives and case studies, to answer how is the term 'hacker' being negotiated, and how it affects the perception of IT security and moral economy. **C24**



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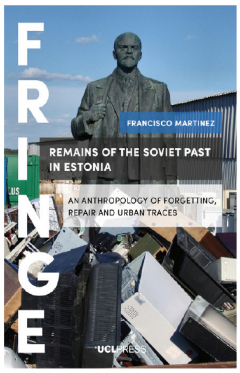

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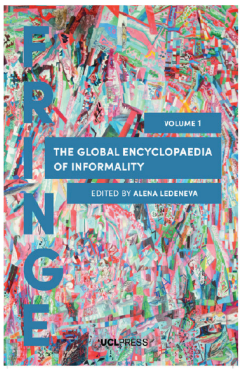

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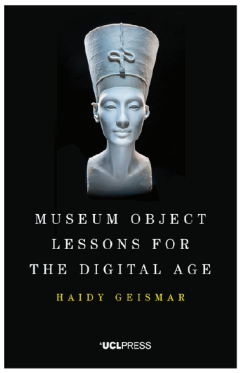

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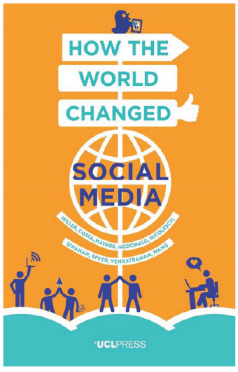

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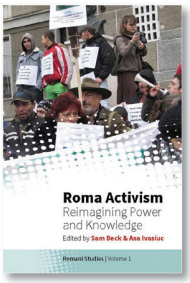

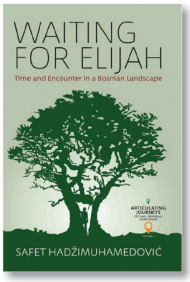

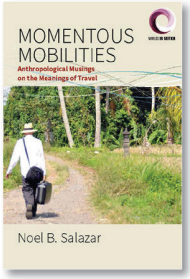

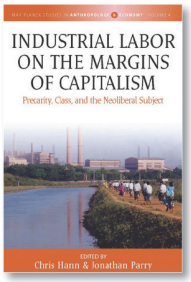

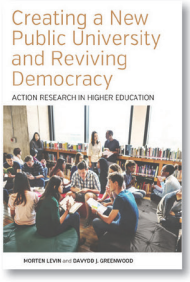

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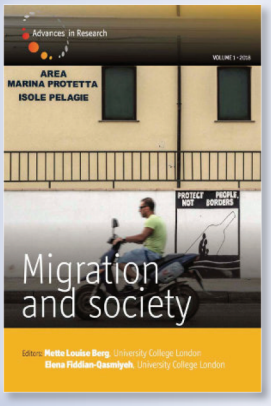

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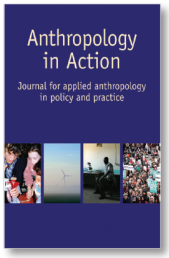

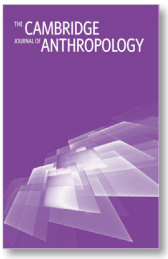

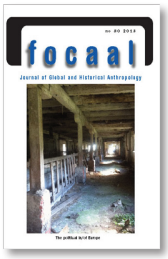

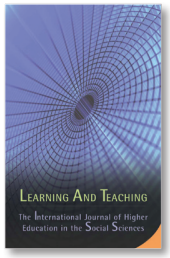

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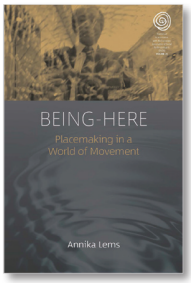

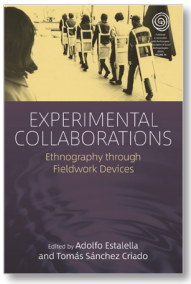

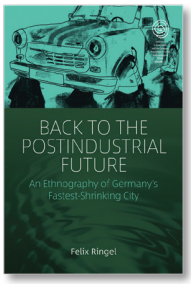

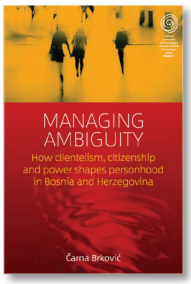

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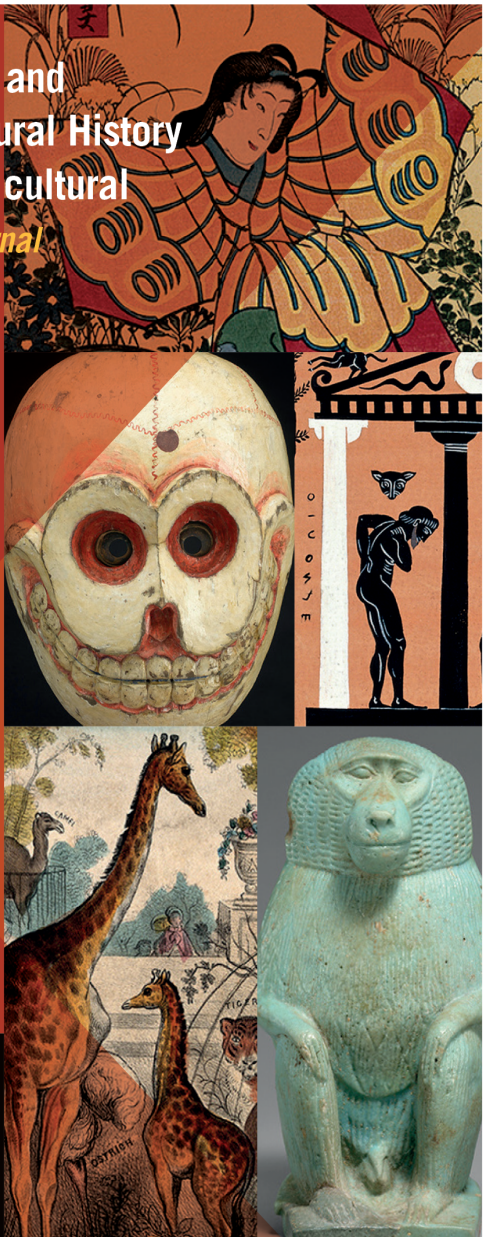

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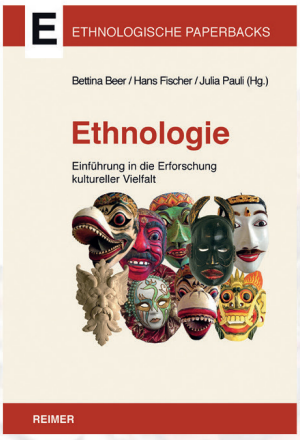

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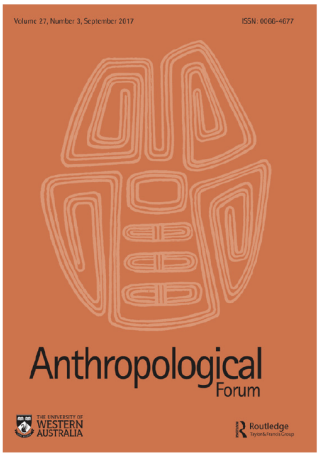

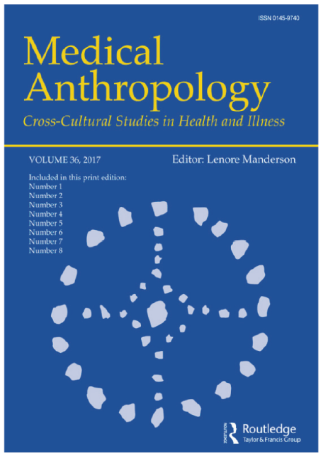

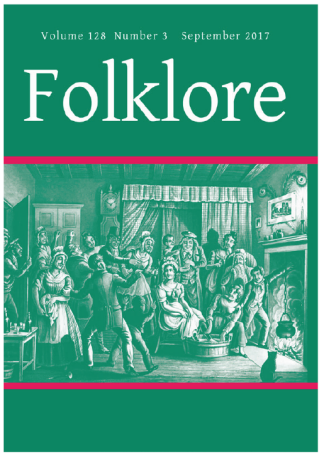

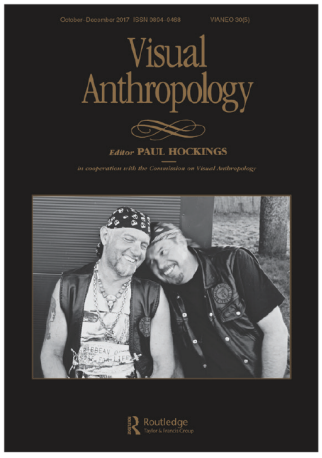

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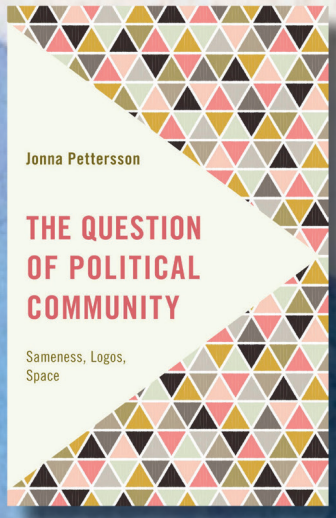

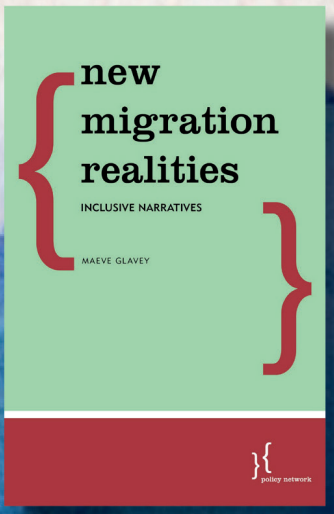

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	13:00-14:30	15:00-16:30	09:00-10:30	11:00-12:30	14:00-15:30	09:00-10:30	11:00-12:30	14:00-15:30	16:00-17:30	09:30-11:00	11:30-13:00
Bowland Lecture Theatre (Bowland Main)	A06	A06	A22	A22	A19	A05	A05	A05		A18	A18
Bowland North Seminar Room 6	A20	A20	A04	A04	A04	A15	A15	A15	A21	A13	A13
Faraday Lecture Theatre (Faraday Complex)	A24	A24	A11	A11	A11	A12	A12	A14	A14	A03	A03
Bowland North Seminar Room 2	A16	A16	A07	A30		A09	A09	A09	A10	A29	A29
Welcome Centre Lecture Theatre 2	A23	A23	V04	AW02	AW02	A27	A27	A27		A02	A02
Cavendish Lecture Theatre (Faraday Complex)	A26	A26		A08	A08	A01	A01	A01	A28	A25	
Bowland North Seminar Room 23	B05	B05	A17	A17	BW01	B06	B06	B06	B03	V06	BW02
Welcome Centre Lecture Theatre 3	B09	B09	B09	B01	B01	B11	B11		C15	B08	B08
Cavendish Colloquim (Faraday Complex)	C17	C17		B07	B07	C27	C27	C09	C09		C07
Frankland Colloquium (Faraday Complex)	C11	C11	CW04	C28	C28	C28	C28	C05	C05	C10	
Bowland North Seminar Room 20	C23	C23	C12	C12	C12	C26	C26	C26	C01	C24	C24
Frankland Lecture Theatre (Faraday Complex)	C04	C04	C03	C03	C02	C16	C16	C16	C16	C18	C18
FASS Building Meeting Room 1	C19	C19	C13	C13	CW01	CW02	CW03	W01	W01	W02	CW05
FASS Building Meeting Room 2/3	C25	C25	C14	C14	C14	C22	C22		CW02		V07
Bowland Hall Main Room	G04	D04	C20	C20	C20	D02	D02	D02	C21	D03	D03
Elizabeth Livingston Lecture Theatre (Bowland North)	E08	E08	E09	E09	E09	D01	D01	D01	D01	E07	E07
Marcus Merriman Lecture Theatre (Bowland North)	E10	E10	F06	E05	E05	E06	E06	E06	E03	E01	V08
Bowland North Seminar Room 7		F01	F02	F02	F02	E04	E04	E02	E02	G06	G06
Welcome Centre Lecture Theatre 4	F05	F05	F04	F04	F04	F03	F03	F03	F03	F08	
Faraday Complex Seminar Room 1	V02	V03	F11	F11	F11	F09	F09	F09			
Bowland North Seminar Room 4	V01		F07	F07	F07	F10	F10	F10			
Bowland North Seminar Room 10	G07	G07	G03	G03	G03	G05	G05	G01	G01	G02	G02

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1 Lancaster University
2 Bowland Hall
3 Bowland Lecture Theatre (Bowland Main)
4 Bowland North
5 Cavendish Colloquium (Faraday Complex)
6 Cavendish Lecture Theatre & Colloquium (Faraday Building)
7 Great Hall Complex
8 E. Livingstone LT (Bowland North)
9 FASS Building
10 Faraday Lecture Theatre (Faraday Complex)
11 Faraday Seminar Room 2 (Faraday Complex)
12 Faraday Seminar Room 1 (Faraday Complex)
13 Frankland Colloquium (Faraday Complex)
14 Frankland Lecture Theatre (Faraday Complex)
15 LICA building
16 The Marketplace
17 Marcus Merriman LT (Bowland North)
18 Minor Hall (Great Hall Complex)
19 Welcome Centre

ACCOMMODATION

(See map on page 18)

A John Creed Guest Rooms
B Cartmel College
C Lancaster House Hotel