

Outline Programme

7th November:

17:00 – 19:00 Drinks Reception & Registration

8th November:

9:30 – 11:00 Welcome & Opening Keynote

11.00 – 17:00 Parallel Sessions

9th November:

9:00 – 15:30 Parallel Sessions

15:30 – 16:45 Keynote Dialogue and Panel

17:00 – 18:30 What next for Anticipation Studies? Open Space Session

18:30 – 19:30 Drinks Reception

19:30 – 23:00 Dinner and Entertainment

10th November:

9:00 – 15:00 Parallel Sessions

15:00 – 16:15 Closing Keynote

All social events and sessions will take place in Senate House and are included in the delegate fee

Anticipation
2017

Full Session Programme

Day 1 – 8th November 2017

	Macmillan Hall	G4	G5	Gordon Room	Montague Room	Bloomsbury Room	Woburn Room
9.30-11.00	Welcome & Opening Keynote: Louise Amoore						
11.00-11.30	Coffee						
11.30-13.00		1 The Materiality of Time	2 Responsible Anticipation	3 Innovations and their Consequences	4 Bridging Anticipation, Decision and Action	5 Design and Anticipation	6 Whose futures?
13.00-14.00	Lunch						
14.00-15.30		7 Models of the Future	8 Time of Social Futures	9 Governments and Foresight	10 The Role of Heritage in Speculative and Counterfactual fiction	11 Encountering the Future and its Portents	12 Opening and Exploring Spaces of Appearance
15.30-16.00	Coffee						
16.00-17.30		13 Making Futures	14 Anticipation, Public Crisis and the Voice of the Past	15 Future Literacies	16 Anticipating Loss 1	17 Utopian Politics	18 Anticipation and the Environment

Day 2 – 9th November 2017

	Macmillan Hall	G4	G5	Gordon Room	Montague Room	Bloomsbury Room	Woburn Room
9.00-10.30		19 Claims to Truth	20 Methodological Inquiry	21 New Approaches to Urban Futures	22 Anticipatory Diversity	23 Pedagogies, Knowledge, Bodies, Robots, Artificial Intelligence	24 Anticipating Loss 2
10.30-11.00	Coffee						
11.00-12.30		25 Utopia as Method	26 Making Futures Matter: Materialising Anticipation	27 Threats Risk and Disaster	28 Inserting the Future in the Crannies of the Present	29 Affect and Emotion	30 Making Human-Centred Futures
12.30-13.30	Lunch	Meet the Editors					
13.30-15.00		31 Agency and Ideas of the Future	32 Everyday Futures	33 Anticipatory Governance and Legacy	34 Museum Practice as Anticipation	35 Pluralising Futures	36 Body-mind in Playful Anticipation
15.00-15.30	Coffee						
15.30-16.45	Keynote Panel						Keynote Dialogue
17.00-18.30	Open Space Session						

****Conference Dinner from 18:30 in Beveridge Hall****

Day 3 – 10th November 2017

	Macmillan Hall	G4	G5	Gordon Room	Montague Room	Bloomsbury Room	Woburn Room
9.00-10.30		37 Education and Anticipation	38 Science Futures: stories, histories, con/texts	39 Models	40 Ethics and Privacy	41 The Old is Dying, and the New Cannot be Born	42 Deep time, design, survivalism, robots, embodied interaction, and almanacs
10.30-11.00	Coffee						
11.00-12.30		43 Disruptions	44 Future Scenarios: An Exhibition	45 Foresight and Strategic Ignorance	46 The Distributed Work of Future Building: Bodies, Brains, Words and Cultures as Embodiments of Possibility	47 Interrogating Uncertainty	48 Creating Futures through Participation and Open-Ended Experiments
12.30-13.30	Lunch						Film: Timeline
13.30-15.00		49 Narrating Futures	50 Waiting for Trevor to Start: Performing participatory anticipation	51 Timescales	52 Systemic and Societal Anticipation	53 Modes of Foresight in informing public policy and decision making	54 Beyond Planning
15.00-16.15	Closing Keynote: Maja Kuzmanovic						



Parallel Session Details

Day 1 – 8th November 2017

Session 1 – The Materiality of Time

This session explores how time is materialised in everything from sourdough baking to bodies to digital media.

Elsa Kosmack Vaara (SICS, Rise, Swedish ICT), 'Anticipation as resting and pausing in felt time'

Tristram Sparks (Massey University), 'The future is disrupted in real time'

Helga Schmid (Royal College of Art), 'Uchronia'

Session 2 – Responsible Anticipation

This curated session elaborates the theme of 'responsible anticipation' by exploring what can be known about the consequences of present actions. What it is that responsible anticipation advocates should do to encourage responsible behaviour and practices from such knowledge? What are the ethics of anticipation, if they exist?

Convenor: Ted Fuller (University of Lincoln)

Contributors: Roberto Poli (University of Trento), Bruce Tonn (Three3), Markku Wilenius (Finland Futures Research Centre)

Session 3 – Innovations and their Consequences

These papers explore the anticipatory practices surrounding innovative technologies- from airships to cochlear implants, to IVF – and proposes institutional and societal strategies for addressing the question of unintended consequences

Martin Mahony (University of East Anglia), 'Atmospheres of anticipation: airships, affects and empire'

Mike Gulliver (University of Bristol), 'Future agency versus the inertia of the inevitable. Or, what do we want 'human' to be: a case study from the Deaf community'

Jonne Hoek (University of Twente), Bas de Boer (University of Twente), and Olya Kudina (University of Twente) 'Anticipation 'from Within': A Future Mediated by Technologies'

Session 4 – Bridging Anticipation, Decision and Action

This curated session explores the multiple faces of anticipation in design-making processes in organisations drawing on examples and theoretical resources from new public management, governance of international infrastructure projects, corporate governance, crisis management and decision-making in transoceanic racing.

Convenor: Fabrice Roubelat (University of Poitiers)

Contributors: Vincent Calay (IWEPS), Frédéric Claisse (University of Liège), Jean-Luc Guyot (IWEPS), Sophie Agulhon (University of Angers), Alaa Nabil Gamie (University of Alexandria), Anne Marchais-Roubelat (CNAM Paris)

Session 5 – Design and Anticipation

These papers explore speculative fiction, design fictions and the anticipatory dance moves within design teams as well as the role of trends in anticipatory and design thinking.

Manuela Celi (Politecnico di Milano) and Chiara Colombi (Politecnico di Milano), 'Design as anticipatory knowledge: Trends from potential future to concrete action'

E. Scott Denison (Politecnico di Milano), 'Design for Anticipation'

Carolina Giraldo Nohra (Politecnico di Torino), and Silvia Barbero (Politecnico di Barbero), 'How Systemic Design approach is anticipating Europe's new economic paradigms'

Session 6 – Whose Futures?

These papers explore stakeholder engagement, co-creation with rural communities, and approaches to engage with local, situated knowledge.

Claude Heath (Royal Holloway University of London), 'Uncertain Futures: Disrupting statistical risk models in information security with participatory LEGO practices'

Johanna Hautamäki (Centria University of Applied Sciences), 'Anticipatory higher education in Finland – working together with the stakeholders'

Peter Jones (OCAD University), 'Assembling Requisite Stakeholder Variety in Foresight Practice'

Session 7 – Models of the Future

Where do models of the future come from? How are expectations produced? And how should such models be unlearned? This session explores philosophical and psychological approaches to these questions.

Roberto Poli (University of Trento), 'Where internal models come from?'

Hayley Trower (University of Roehampton), 'Aesthetic implications of anticipation in music: exploring the cognitive underpinnings'

Thomas Grisold (University of Vienna) and Markus Peschl (University of Vienna), 'Cognitive Unlearning as a prerequisite for anticipation'

Session 8 – The Time of Social Futures

This curated session of academic-practitioner conversations will reflect on what the use of different futures methods imply about time, how time is understood and deployed in specific contexts, and with what consequences for our societies.

Convenor: Rebecca Braun (Lancaster University)

Contributors: Michael Hebbert (Bartlett School of Planning), Stephen Hill (Churchill Fellow), Greg B Davies (Centapse), Melissa Fernández Arrigoitia (Lancaster University), Emre Tarim (Lancaster University), Emily Spiers (Lancaster University), Peter Kalu (Commonword), Carlos Lopez Galviz (Lancaster University)

Session 9 – Governments and Foresight

This session explores three different examples of government foresight and planning activities and examines the political and social processes by which different future imaginaries and plans are produced.

Sean Low (Institute for Advanced Sustainability Studies) and Stefan Schäfer (Institute for Advanced Sustainability Studies), 'Negative Admissions: An anticipatory survey on modelling negative emissions in low emissions pathways'

Stefan Bergheim (Zentrum für gesellschaftlichen Fortschritt), 'Anticipation in German governmental futures processes'

Joost Vervoort (Utrecht University) and Aarti Gupta (Wageningen University), 'Governing foresight: the politics of imagining Anthropocene futures'

Session 10 – The Role of Heritage in Speculative and Counterfactual Fiction

This session asks: how does heritage figure in fictions where the future has already arrived, where the existence of future generations seems likely, or fundamentally changed? What do these fictional horizons tell us about making and inheriting futures?

Convenors: Kyle Lee-Crossett (UCL), Sarah May (UCL)

Contributors: D. M Withers (University of Bristol), Laura Watts (University of Copenhagen)

Session 11 – Encountering the Future and its Portents

One complex area of human life that permeates the subject area to which Anticipation Studies is devoted involves the practice of religion in all its multiple varieties. This curated session will explore the roles that the oft-foretold future and the remembered past play in formulating and reformulating ideas about the present and its impact upon the futures of the societies involved.

Convenor: John Lyons (University of Bristol)

Contributors: Dawn Llewellyn (University of Chester), Julia Cook (University of Melbourne), Steve Knowles (University of Chester)

Session 12 – Opening and Exploring Spaces of Appearance

Drawing on Biesta, Arendt and Ranciere, this workshop proposes that an important aspect of keeping the future radically open is developing techniques that have the potential to open ‘spaces of appearance’. These are spaces in which *who* one is can emerge and bring new unexpected ways of knowing, being and acting into the world.

Facilitators: Sarah Chave, James Chave, Chris Turner (University of Exeter)

Session 13 – Making Futures

These papers explore how the future gets made through stories, design, everyday practices and games.

Lenneke Kuijer (Eindhoven University of Technology) and Nicola Spurling (Lancaster University), ‘Making everyday futures: designing to know’

Dalsu Ozgen Kocyildirim (Middle East Technical University) and Stan Ruecker (University of Illinois), ‘Anticipatory Storytelling in Design’

Joost Vervoort (Utrecht University), ‘Future Games – New Frontiers’

Session 14 – Anticipation, Public Crisis and the Voice of the Past

This session of five short papers focuses on the ways in which ‘the past’ is an essential component of a variety of public anticipatory practices that underpin democratic forms of being, both within human social systems and in an ecological sense.

Convenor: Deborah Osberg (University of Exeter)

Contributors: Anna Lisa Tota (University of Rome III), Ann Mische (University of Notre Dame), Robin Wagner-Pacifici (New School for Social Research)

Session 15 – Futures Literacies

This session explores the broad issue of futures literacy – what sort of skills and approaches are required if we believe it is possible to engage in ‘better’ anticipatory practices?

D.W Rietveld (University of Amsterdam), ‘The Skilled Intentionality Framework for Anticipation’

Rocco Scolozzi (University of Trento), ‘System thinking and future thinking about the commons at school: a research action on local resources with 8th grade Italian students’

Riel Miller (UNESCO), ‘Transforming the Future: Anticipation in the 21st Century’

Session 16 – Anticipating Loss 1: Towards a Heritage of Absence, Incompletion and Extinction

This curated session will seek to explore cultural responses to anticipated loss, with a focus on predictions of accelerated and unpredictable loss associated with the destabilisation of current ecological, political and economic orders.

Convenor: Rodney Harrison (University College London)

Contributors: Sarah May (University College London), Trinidad Rico (Rugers University), Jennie Morgan (University of York), Þóra Pétursdóttir, Sefryn Penrose (University College London)

Session 17 – Utopian Politics

This session explores the intersections between political, utopian and public pedagogic movements.

Heather McKnight (University of Sussex), 'Unions as Utopian Spaces: Intercepting Narratives of Potentiality in the fight against Marketised Education'

Cassie Earl (University of Bristol), 'Post-truth as a pedagogy of the future? Transgressing the post-political frame'

Dirk Hoyer (Tallinn University), 'De Jouvenel and the Futuribles: The Mid-century Rejuvenation of Scientific Inquiry as an Inspiration for Contemporary Science'

Session 18 – Anticipation and Environment

This session explores anticipatory practices specifically in relation to the challenges of the Anthropocene, environment and energy issues.

Chris Groves (Cardiff University), 'Anticipating the energy transition: hotspots and blindspots'

Dagny Studenhal (Oslo and Akershus University) and Ann Light (University of Sussex), 'Anticipating Sustainable Society: the Design of Culture in the Anthropocene Age'

Erica Jewell (Goldsmiths, University of London), 'Sea Sensing: Designing Engaging Interactions with Climate Projection Data'

Day 2 – 9th November 2017

Session 19 - Claims to Truth

These papers explore questions of truth, reality, fact and fiction in relation to prediction and uncertainty.

Johan Siebers (University of London and Middlesex University), 'A Theory of Anticipatory Truth'

Martin Sand (Karlsruhe Institute of Technology), 'Realism about the future and realism about the past'

Daniele Chiffi (Tallinn University of Technology), Ahti Pietarinen (Tallinn University of Technology) 'Uncertainty, Risk and Conjecturing'

Session 20 - Methodological Inquiry

These papers explore linguistic, interdisciplinary and agential realist approaches to futures research and practice.

Henry Mainsah (University of Warwick), 'Inventive Methods for Studying Futures: Exploring Research Devices from Design and Art'

Linus de Petris and Anders Falk (Blekinge Institute of Technology), 'Anticipating Agency - a playful shift from uncertainty to indeterminacy'

Anna Kirveennummi (University of Turku), Nick Balcom Raleigh (University of Turku), Markku Wilenius (Finland Futures Research Centre), Sari Puustinen (University of Turku), and Ellinoora Leino-Richert (University of Turku), 'Transdisciplinarity and new fields of knowledge in anticipatory processes'

Session 21 - New Approaches to Urban Futures

This session explores contemporary and historic analyses of the processes of urban futures-making.

Elena Formia (University of Bologna), 'Design cultures met future studies. The emergence of a shared debate in the pages of Italian specialized magazines (1967-1974)'

Einar Sneve Martinussen (The Oslo School of Architecture and Design), 'Interaction design and the futures, presents and pasts of the networked city'

Robbert van Driessche (Radboud University), Peter Ache (Radboud University), and Arnoud Legendijk (Radboud University), 'Dissecting the urban(ized) binoculars: From deconstructing to reconstructing and realizing urban futures'

Session 22 - Anticipatory Diversity

This session comprises three very different papers exploring divination, bodies and emotions in anticipation, putting into dialogue a wide range of perspectives in anticipation.

Anna Barker (University of Leeds), 'Affective aspects of everyday anticipation: A study of people's attachment to, as well as hopes and fears regarding, the future of urban public parks'

Lise Amy Hansen (The Oslo School of Architecture and Design), 'Movement Matters'

Bruce Tonn (Three3 Inc.), 'Anticipating the Unintended Consequences of Science and Technology'

Session 23 - Pedagogies, Knowledge, Bodies, Robots, Artificial Intelligence

This session comprises 7 short interventions on highly diverse areas of anticipation, and is chaired to stimulate debate, connections and emerging themes across these interventions.

Robin L. Zebrowski (Beloit College), 'Using the Future to Create the Present: A Pedagogical Work in Progress for Artificial Intelligence'

Jean Archambeault (McGill University), 'The productive role of uncertainty in knowledge emergence'

Chryssa Sgouridou (University of Exeter), 'Hospitality and Education: Preparing for an open future'

Claire van Rhyn (Royal College of Art), 'Ancient Technology: The body as anticipatory tool in the relational emergence of cultural change'

Gioconda Coello (University of Wisconsin-Madison), 'Future is the Time Behind Us'

Lei Zheng (University of Wisconsin-Madison), 'Anticipatory Language of Learning in Transnational Education Reforms: Spatialization of Future, Knowledge, and Emotion'

Jane Gilbert (Auckland University of Technology), 'Towards a Re-framing of Science Education for the Post-Carbon Era'

Session 24 - Anticipating Loss (2) Moving Image/Imagination

This workshop will explore the challenges involved with using audio visual media to represent anticipated loss and change. The session will consider film and sound as methods for expressing loss, drawing out affective and emotional responses, and documenting ephemeral or threatened futures.

Facilitator: Caitlin DeSilvey (University of Exeter)

Contributors: Shannon Dawdy (University of Chicago), Sara Penrhyn Jones (Bath Spa University), Nadia Bartolini (University of Exeter), Sarah Turner (University of Kent), Antony Lyons

Session 25 - Utopia as Method

This session draws on Blochian utopian theory, and puts it into dialogue with critical discourse analysis and professional practice.

Signe Hvid Thingstrup (University College Copenhagen), 'Anticipatory practices in action research with childcare professionals in Denmark'

Nina Rismal (University of Cambridge and University of Santa Barbara), 'On Ernst Bloch, utopian ideas, and their realisation'

Heather McKnight (University of Sussex), 'Seeking the Edges of Contemporaneous Contradiction: Developing a Methodology of Critical Utopian Discourse Analysis'

Session 26 – Making Futures Matter: Materialising Anticipation

Anticipation is often analysed in terms of cognitive accomplishments achieved through foresight, reasoning, calculating and so on. Yet anticipation is also an orientation which is made real in bodies. This session combines visual and performative arts with theoretical and empirical social sciences to intervene in how futures are anticipated and performed through every day and professional practices.

Convenor: Chris Groves (Cardiff University)

Contributors: Jên Angharad (Future Matters Collective), Juliet Davis (Cardiff University), Seth Oliver (Fizzi Productions), Emma Renold (Cardiff University)

Session 27 - Threats, Risks and Disaster

This session explores anticipatory practices relating to the perception of threats, risks and disasters, exploring how decisions are made and actions taken.

Antonia Langhof (Leibniz Universität Hannover), 'Freeze! Calling a halt to Anticipation in organisations and Disaster Management by creating time pressure'

Andrew Donaldson (Newcastle University), 'Space/time machines: assembling now, then, where and when through food supply chains'

Gitanjali Adlakha-Hutcheon (NATO-SAS-123 research task group), 'FATE – a work in progress'

Session 28 - Inserting the Future in the Crannies of the Present

This session of five presentations seeks to engage both philosophically and creatively with attitudes to the future, offering interventions that transact a number of disciplines including philosophy, futures, art, psychology, ancient mysticism and science, sociology and economics. For the present and our experiences of it, not to become stagnant or destroyed, we need to have an active and innovative relation to the future.

Convenor: Jamie Brassett (Central Saint Martins)

Contributors: John O'Reilly (Central Saint Martins), Mark Donoghue (University of the Arts London), Fabrice Roubelat (University of Poitiers), Anne Marchais-Roubelat (CNAM Paris), Bettina Bouchayer (CNAM Paris)

Session 29 - Affect & Emotion

This session explores the affective and emotional aspects of anticipation – exploring questions of hope, fears and desires.

Maneesha S. Wanasinghe-Pasqual (University of Colombo, Sri Lanka), 'Anticipation of Terror: A Narrative Analysis'

Giuliana Mandich (University of Cagliari), 'Domesticating the future: present futures as ordinary utopias'

Timofei Nestik (Russian Academy of Sciences), 'Foresight in organizations: socio-psychological approach'

Session 30 - Making Human Centred Futures

This workshop will explore a number of approaches for working with people to identify their anticipatory assumptions individually and collectively. These approaches are human centred and designed to enable people to move beyond the conventions of modernistic thinking about the future.

Facilitators: Cindy Frewen (Frewen Architects), Maree Conway (Thinking Futures), Bridgette Engeler (Swinburne University of Technology)

Session 31 - Agency & Ideas of the Future

This set of papers explore relationships between agency and ideas of the future, and the narratives that inform personal motivation.

Richard Sandford (University of Bristol), 'Images of the future and educational decision-making'

Mikko Dufva (VTT Technical Research Centre of Finland Ltd.), 'Anticipated imaginaries of agency in the futures of work'

Mikael Sokero (Demos Helsinki), 'Anticipation as individual action motivated by the future(s) - the case of climate change and youth'

Session 32 - Everyday Futures

This session addresses the absence of 'the everyday' in futures visions and scenarios, and the absence of 'the future' in studies of 'the everyday'. It draws together anthropology, communication studies, design, history, futures, sociology, sustainability into dialogue with ideas of the future and is structured around key themes of making, feeling, consuming and disrupting.

Convenor: Nicola Spurling (Lancaster University)

Contributors: Lenneke Kuijer (Eindhoven University of Technology), Margit Keller (University of Tartu), Giuliana Mandich (University of Cagliari), Georgia Newmarch (Lancaster University)

Session 33 - Anticipatory Governance and Legacy

This set of papers explores the relationship between anticipatory governance, legacy and democracy.

Joni Karjalainen (University of Turku), Sirkka Heinonen (University of Turku), Juho Ruotsalainen (University of Turku), and Marjukka Parkkinen (University of Turku), 'Anticipatory hybrid governance – testing a conceptual model for a peer-to-peer-driven urban landscape'

Sietske Veenman (Radboud University), 'Exploring policy centric future framing and governance arrangements to anticipate futures in environmental policy'

Juliet Davis (University of Cardiff), 'Futurescapes of Design for Urban Regeneration: ten years of planning the legacy of London's 2012 Olympic Games'

Session 34 - Museum Practice as Anticipation

This curated session explores how museums can be seen as anticipation machines: places where people in the present act in equipoise in relation to the past and the future. Testing strategic drivers and trends for the future through museum practice enables exploration of conference themes relating to how we live in time and how the future gets made.

Convenor: Tim Boon (The Science Museum)

Contributors: Sandra Kemp (The Victoria and Albert Museum), Chiara Zuanni (The Victoria and Albert Museum), James Mansell (University of Nottingham), Nick Barnard (The Victoria and Albert Museum)

Session 35 - Pluralising Futures

This set of papers explores the role of indigenous knowledge and of knowledge from the Global South, within anticipation practices.

Sophie Haines (University of Oxford), and David Zeitlyn (University of Oxford), 'Promises, probabilities and the prediction of weather and climate'

David Zeitlyn (University of Oxford), 'Anticipating what the divination spider will say'

Karlijn Muiderman (University of Utrecht), 'The challenges of reconceptualizing anticipatory governance to climate change and migration futures in the Sahel'

Session 36- Body & Mind in Playful Anticipation

This is a workshop based on long-standing research into the transmission or transfer of embodied cultural knowledge, and explores the experimental technique of 'banding' to explore how individuals sense and perceive each other's presence and movements in profound ways. This is a hands on physical workshop.

Facilitator: Tomie Hahn (Resselaer Polytechnic Institute)

Day 3 – 10th November 2017

Session 37 - Education & Anticipation

These papers explore how anticipation studies are being used in education in relation to organisation theory, teacher observation and curriculum design.

Melissa Hawkins (University of Bath) and Chris James (University of Bath), 'The Future Looks Uncertain: How complexity theory can help us to understand the problematics of organising in schools'

Lars Geer Hammersøj (Aarhus University), 'The Future of Education: The problem of cultivating the unique human capacities required in a world of rapid change'

Sun Young Lee (University of Wisconsin-Madison). 'The Anticipatory Teacher: Temporalities, Utopic Future and Fears'

Lars Geer Hammersøj (Aarhus University), 'Diagnosing Future Employability in Higher Education: The Perfect Storm Scenario of Higher Education Institutions'

Session 38 - Science Futures: stories, histories con/texts

This curated session explores engagements with anticipations of the future through narrative, including both fiction and non-fiction. In particular, the session focuses on how narrative enables publics to embrace, resist, criticise and re-contextualise the futures made by knowledge and political elites.

Convenor: Lisa Garforth (Newcastle University)

Contributors: Mat Paskins (Aberystwyth University), Sam Robinson (University of York), Amy Chambers (Newcastle University), Iwan Morus (Aberystwyth University)

Session 39 - Models

This session explores mental and systemic models of the future and their relationship with action in the present.

Rodolfo A. Fiorini (Politecnico di Milano University), 'Cognitive Aspects of Anticipation by the Klein Four-Group and the Elementary Pragmatic Model'

Chris Mays (University of Nevada), 'Stubbornness, "Facts," and Anticipation: Resilience of Belief as an Anticipatory Reaction within a "Rhetoric System"'

Loet Leydesdorff (University of Amsterdam), 'The Development of the Theory and Computation of Anticipatory Systems into a Calculus of Redundancy and the Generation of New Options in Innovation Systems'

Session 40 - Ethics & Privacy

These papers explore the various ethical issues that are raised by anticipation work and by anticipatory projects.

Mary Brydon-Miller (University of Louisville), 'What Happens if you Cross a Hedgehog with a Fox? The Chimera of Anticipatory Ethics'

Nicholas Taylor (Goldsmiths, University of London), 'The Ethics of Professional Futurism: the moral responsibility of anticipation'

Matti Minkkinen (University of Turku), 'Future-proofing the European privacy regime: Ideas and discourse coalitions in the public consultation process of the General Data Protection Regulation'

Session 41 - The Old is Dying, and the New Cannot be Born

A multi-disciplinary and multi-perspective session on the governance of the future, exploring challenges to anticipation and governance in a time of crisis. This is examined through the areas of personalised medicine, disaster management, risk, energy futures, sustainability of the oceans.

Convenors: Andrea Saltelli (University of Bergen) and Silvio Funtowicz (University of Bergen)

Contributors: Roger Strand (University of Bergen), Anne Blanchard (University of Bergen), Bruna de Marchi (University of Bergen), Jeroen van der Sluijs (University of Bergen), Giacomo Poderi (University of Bergen), Kjetil Rommetveit (University of Bergen), Mimi Lam (University of Bergen), Matthias Kaiser (University of Bergen), Dafne Lemus (University of Bergen)

Session 42 - Deep time, design, survivalism, robots, embodied interaction & almanacs

This session comprises 7 short interventions on highly diverse areas of anticipation, and is chaired to stimulate debate, connections and emerging themes across these interventions.

Anna Louise Spencer (Glasgow School of Art), 'Haste Ye Back: Exploring Deep Society in the Scottish Highlands'

Ferry van de Mosselaer (Leuven University), 'Dealing with complexity and uncertainty: bridging the epistemic paradox between design research and futures research'

Marjukka Parkkinen (University of Turku), 'Contemporary survivalism as a socio-individual futures-oriented approach'

Caroline Yan Zheng (Royal College of Art), 'Building sentimental machines with people – anticipating the future of our affective relations with sensual robotics'

Manuel Gustavo Isaac (University of Amsterdam), 'SECE: A Semiotic Epistemology for Conceptual Engineering in Cognitive Futurology'

Benjamin Stopher (Royal College of Art), 'Platform Supported Anticipation: Multimodal data from design ideation as platform level metadata for distributed ideation'

David Benqué (Royal College of Art), 'The Monistic Almanac'

Session 43 - Disruptions

This session explores disruptive ideas that challenge existing frames and approaches – from the exploration of 'the baroque' as a design practice, to the use of arts intervention in cities, and participatory methods – all three papers open up questions about how conventional design practices might be creatively unsettled by anticipation studies.

Andrew Morrison (AHO), 'Design-Baroque-Futures'

Isabella von Mühlen Brandalise (Parsons School of Design, The New School), 'The NYC Subcommittee of Temporary Operations and Public Dissent'

Katerina Alexiou (The Open University), and Theodore Zamenopoulos (The Open University), 'Design anticipation: creating futures through collective dreaming and prototyping'

Session 44 - Future Scenarios: An Exhibition

The Culture & Climate Change: Future Scenarios project has focused on the imagination and future possibilities of climate change scenarios. It launched in December 2015 in Paris at COP21 and in July 2016 four artists embarked on a year long networked residency programme designed to encourage more open and imaginative and more purposeful, responses to the challenge of climate change in the present. This curated session will be an 'exhibition' of this project.

Convenor: Renata Tyszczyk (University of Sheffield)

Contributors: Joe Smith (The Open University), Zoe Svendsen (University of Cambridge), Hannah Bird (arts producer Culture and Climate Change),

Session 45 - Foresight and Strategic Ignorance

This session explores the practices of foresight in government and industry settings examining the genesis of policy scenarios, the concepts of strategic ignorance and the translation of scenarios into policy.

Aurore Fransolet (Université libre de Bruxelles), 'Role of foreknowledge in public policy: A comparative analysis of four energy foresight studies in Wallonia'

Claire Craig (The Royal Society), 'Quantitative modelling in futures thinking: lessons from the UK's Foresight programme'

Jeremy Brice (LSE), 'Tending the Unanticipated: Strategic ignorance, risk management and the boundaries of the reasonably foreseeable'

Session 46 - The distributed work of future building: bodies, brains, words and cultures as embodiments of possibility

This session explores how the concept of distributed cognition might inform the field of anticipation studies. It examines the extent to which anticipation should be extended such that perception, action, cognition, communication and culture are conceptualised as being inherently forward looking.

Convenor: J. Scott Jordan (Illinois State University)

Contributors: Tomie Hahn (Rensselaer Polytechnic Institute), Chris Mays (University of Nevada), Tommaso Bertolotti (University of Pavia)

Session 47 - Interrogating Uncertainty

Uncertainty, how to understand it and how to work with it, is a central conceptual challenge facing Anticipation Studies. This symposium brings together perspectives from mathematics, statistics, climate science, philosophy, social movement theory and education to explore definitions, value and strategies for working with uncertainty.

Convenor: Keri Facer (University of Bristol)

Contributors: Patricia Gayá (University of Bristol), Rich Pancost (University of Bristol), Karoline Wiesner (University of Bristol), Harvey Goldstein (University of Bristol), Richard Pettigrew (University of Bristol)

Session 48 - Creating Futures through participation & open-ended experiments

This workshop will engage participants in a process that enables 'ordinary people' to take responsibility for creating new futures and to bring about new anticipations for democratic developments of local and societal issues. Founded in the Critical Utopian Action Research Tradition, the workshop will engage participants in a brief version of a Future Creating Workshop.

Facilitator: Mia Husted (UCC)

Contributors: Mette Bladt (UCC), Mary Brydon-Miller (University of Louisville), Jonas Egmosø (Roskilde University), Janne Gleerup (Roskilde University), Ditte Tofteng (UCC)

Session 49 - Narrating Futures

These papers explore texts as anticipatory and anticipatory texts, from books to films to design images.

Genevieve Liveley (University of Bristol), 'Telling the Future: Anticipating our futures, our selves'

Rafael Dernbach (University of Cambridge), 'Anticipatory realism: constructions and mediations of future in contemporary documentary practices'

Roy Bendor (Delft University of Technology), 'In anticipation of the coming Technocracy: Designerly urban futures from Rotterdam'

Session 50 - Waiting for Trevor to Start

This session explores how participatory design approaches might be developed when there are no shared agendas or collective understanding. It involves people to participate in a performance by a leading comedian (Trevor Lock) followed by a panel discussion. It will explore how to bring people together in contexts of high levels of uncertainty and ambiguity.

Convenor: Lucy Kimbell (University of the Arts London)

Contributors: Trevor Lock, Jamie Brassett (Central Saint Martins), Cynthia Selin (Arizona State University), Laurene Vaughan (RMIT University)

Session 51 - Timescales

This session explores multiple 'timescales' – the deep time of the planet, the instant by instant play of time in a classroom, and the intersections between time, power and freedom in social change.

Bronislaw Szerszynski (Lancaster University), 'The anticipatory revolutions of the Earth'

Jérôme Proulx (Université du Québec à Montréal), 'Analysing students' mathematical solving processes: towards the (potentiality) of the future'

Paola Pierri (University of the Arts, London), "'The future arrives sooner here": Time as a dimension of power'

Session 52 - Systemic and Social Anticipation

This session puts into conversation a set of papers proposing new approaches to societal and system scale anticipation

Kari-Hans Kommonen (Aalto University), Régis Frias (Aalto University), Mia Muurimäki (Aalto University), and Yasuyuki Hirai (Kyushu University), 'Developing Capacity for Envisioning Future Societal Design'

Rodolfo A. Fiorini (Politecnico di Milano University), 'To Govern the Future We Need Anticipation First: No Anticipation No System Antifragility'

Rico Defila (University of Basel MGU), Corinne Ruesch Schweizer (University of Basel MGU), and Antonietta di Giulio (University of Basel MGU), "'Futures Wheel" – a technique suited to relate anticipation, policy options and societal debate

Session 53 - Modes of Foresight in informing public policy and decision making

This curated session explores the emerging roles of futures thinking in the guidance, planning and informing of public policy and decision-making. It asks what the roles of foresight in governance ought to be, and whether we are making progress. Have we effectively positioned foresight for critically and ethically advising policy?

Contributors: Karl Schroeder (Narrative Futures), Greg van Alstyne (OCAD University), Peter Jones (OCAD University), Ursula Gobel (Social Sciences and Research Council of Canada)

Session 54 - Beyond Planning

These papers propose alternatives to planning in three radically different sites: fiction, entrepreneurial activities and classroom practice.

Andy Inch (University of Lisbon), Lavínia Pereira (University of Lisbon), and Olivia Bina (University of Lisbon), 'Educating desire to open the future: the challenges of reconstructing a utopian urban planning imaginary'

Ted Fuller (University of Lincoln) and Elena Antonacopoulou (University of Lincoln), 'Anticipation and Emergence in Entrepreneurial Practice'

Jean-Francois Maheux (Université du Québec à Montréal), 'Planning vs Preparing: Toward an anticipative approach to mathematics education'

Keynotes and Plenaries

Day 1 – 8th November 2017

Louise Amoore

Intuitive Futures: On Anticipation and the Algorithm

A group of computer scientists reflect on “the goal of cloud robotics”, where a robot will draw upon the output of machine learning in order to anticipate how to grasp an object. This anticipatory action, they explain, is a kind of “pre-computation”. It is of the essence of human learning, one might think, to experience past interactions with objects, to anticipate the form and profile, and to intuitively know how to act in the future. And yet, for deep neural net algorithms this is a profound problem, centred on how machines anticipate the contours of the world around them. It is a problem that extends from the anticipation of the shape of a human organ amid the cluttered data of robotic surgery, to the recognition of a civilian body in the occluded data of the autonomous drone. Indeed, as the Tesla autonomous vehicle failed to anticipate the white truck crossing its path against a pale sky, or as the production line robot failed to anticipate the outline of a human figure – in both cases resulting in fatalities – the algorithm’s capacity to anticipate the future appears to be in question. In this lecture I address the ethics and politics of a world in which algorithms are increasingly the locus of anticipatory action.

Day 2 – 9th November 2017

Plenary Panel

How do we make a better future in the Anthropocene?

Speakers: Shaun Hendy (Professor of Physics at the University of Auckland and Director of the Te Pūnaha Matatini), Jana Scholze (Associate Professor and Course Director of the MA Curating Contemporary Design at Kingston University in London), Linda Woodhead MBE DD (Professor of Sociology of Religion in the Department of Politics, Philosophy and Religion in Lancaster University and Director of the Institute for Social Futures).

Chaired by Professor Sandra Kemp (Senior Research Fellow, V&A and Imperial College London) this interdisciplinary keynote panel will debate methodologies for the how we make futures in the context of the Anthropocene. Questions for discussion include: What values shape our designs of the future, and how do we know they are the right ones? What does the past have to do with it, and how have different cultures, religions and traditions anticipated? A better future for whom – humans, animals or the planet?



Plenary Dialogue Anticipation and Change

Speakers: Ted Fuller (Professor of Entrepreneurship and Strategic Foresight at the University of Lincoln and Editor in Chief of Futures Journal), Mihai Nadin (Ashbel Smith University Professor at the University of Texas at Dallas, and Director of the antÉ – Institute for Research in Anticipatory Systems), Ilkka Tuomi (Chief Scientist at Oy Meaning Processing Ltd)

Professor Nadin will share his well-developed position on the anticipatory perspective, based on over 48 years' research. Acknowledging anticipatory processes as inherent to life and living, his work seeks knowledge of how change affects the living. The work is towards a genuine science of the living in which the realization of meaning in connection to the possible future is a new frontier of science. Such a view necessarily leads to the understanding that the Cartesian view of the world has to be complemented, in Niels Bohr's sense that objects have complementary properties which cannot all be observed or measured simultaneously, with a holistic non-deterministic view of life.

The presentation will be made via video link followed by a dialogue between Mihai Nadin and Ilkka Tuomi with audience questions

Meet the Editors

Come along during the lunch break on Day 2 to find out about the publication plans arising from this conference and the publishers (Springer, Routledge and Elsevier) interested in developing the field of Anticipation Studies. The session will be hosted by the Anticipation 2017 Conference Committee.

Open Space Session: What next for Anticipation Studies?

This session provides an opportunity for anyone interested in the development of the field of Anticipation Studies to come together and explore new possibilities. This session, facilitated by the conference chair, will use a collaborative, participatory approach to reflect on the lessons coming out of the conference and explore future developments. Possible topics for discussion/development include: projects, teaching, publications, future conferences or events, and networking activities.

Day 3 – 10th November 2017

Film Screening – Timeline

'TIMELINE' offers a personal perspective on climate change in which researcher and film-maker, Sara Penrhyn Jones, crafts a narrative from her own footage, recorded over seven years of activism. It starts at the climate summit in Copenhagen in 2009, journeys through Greenland's melting landscapes with scientists, then to the low-lying island nation in the South Pacific, Kiribati, facing the whole-scale displacement of their entire population because of rising sea levels. Sara's hometown of Aberystwyth in Wales is hit by storms of an unprecedented scale. There is a broken telescope on the promenade, and a dead sheep on the beach, but the community rallies, with buckets and spades.

The film screening will be followed by a Q&A with Sara.

Maja Kuzmanovic in collaboration with Nik Gaffney.

In anticipation of things already present: An audio-visual lecture-performance

Noticing. A multiplicity of futures becoming apparent in layered moments. A tangled string of beginnings and endings stretched across gradients. Inception and subsiding. A dynamic space of operation, where anticipation and action co-exist in improvised flows. Iterative cycles. Simultaneously witnessing, responding to and creating changes. Skirting of the adjacent possible. Anticipation as a framing of intent. An invocation. Anticipation complemented by attunement, by sensing liminal resonances and synchronicity. From anticipation as an instrument for effective decision making, to anticipation as a metamorphic craft of selection, uncovering, re-connecting and re-animating things that are already present. Anticipation without representation, made apparent through attention, activated in experience. Experience as a creative, world-growing force. Experiential time subsumed into an atemporal web of shifting relationships. Human, larger than human, beyond human. Slipping past explanation and comprehension. Striving towards systemic empathy, from communication to communing. Facing uncertainty. Inhabiting, exploring, experimenting. The world becomes malleable, things can become otherwise. A hex for transforming transformation. Æ[Æ].