

## AFTERNOON – PARALLEL SESSIONS

This is the first, preliminary and still incomplete, programme of the afternoon sessions of the 1<sup>st</sup> International Conference on Anticipation. Two tracks are still missing, namely *Design and Anticipation* and *Sociologies of the Future*. Sessions with one or two presentations will be reorganized in later versions of the programme. The second, updated version of the programme will be published July the 15<sup>th</sup>.

### AC1 ANTICIPATORY CITIES 1 – Chair: Michele Manzella (University of Feltre)

- ACHE, Peter, Linda CARTON, Vincent MARCHAU, Sietske VEENMAN and Etienne ROUWETTE (Radboud University Nijmegen), *Anticipatory governance in urban planning processes*
- CATTAPAN, Nico (Labtre), *Revisiting the concept of strategy for urban policies*
- CAPERNA, Antonio and Eleni TRACADA (International Society of Biourbanism, University of Derby), *Biourbanism - Towards a new epistemology in the architects' education*
- BERGHEIM, Stefan (Center for Societal Progress, Frankfurt am Main), *Positive Futures - Forum for Frankfurt*

### AC2 ANTICIPATORY CITIES 2 – Chair: Eleni Tracada (University of Derby)

- YIN, Jingwen and Keri FACER (University of Bristol), *Using the case of "Bristol is Open" to explore the relationship of the Science and Technology Studies (STS) and the anticipation theory*
- STUFANO, Rossella, Stefano BORGO, Dino BORRI and Domenico CAMARDA (Technical University of Bari, ISTC CNR), *Spatial design for risk-averse urban scenarios: a conceptual note*
- MANZELLA, Michele, Theo ZAFFAGNINI and Roberto BOTTAZZI (University of Feltre, MASA), *Telematic map of the risk*
- GIESECKE, Susanne (Austrian Institute of Technology ), *"Riding the Tiger – The example of social innovations attempting to establish and to alter the anticipated capitalist development"*

### AE1 ANTICIPATORY ENGINEERING 1 – Chair: Janet Singer (International Society for the Systems Sciences)

- ABERA, W., M. BANCHERI, A. BELLIN, E. BOZZINI, N. CONCI, A. FRACASSO, L. FRACCAROLLO, D. GENELETTI, L. GIOVANNINI, L. LAITI, M. LARCHER, B. MAJONE, S. MENINNO, E. NUCCI, M. PERTILE, S. PICCOLROAZ, G. ROSATTI, E. SANSONE, M. SARTORI, E. TOMASI, M. TORO, D. ZARDI, N. ZORZI, D. ZUGLIANI, S. SCHIAVO and R. RIGON (University of Trento), *Anticipating*

*the impact of climatic changes on future availability of water resources and hydro-geological risks: an overview from the project CLIMAWARE*

- FIORINI, R. A. (Politecnico di Milano), *No Anticipation, No Wellbeing!*
- WADE, Jon and Hortense GERARDO (Lasell College), *Anticipatory engineering: an anthropological approach*
- LOWE, David, Karen CLARK, Gerald MIDGLEY, Gordon PATTISON and Mike YEARWORTH (Defence Science and Technology Laboratory, University of Hull, University of Bristol), *Methods for Monitoring Organisational Health - Enabling an Anticipatory System*

### **AE2 ANTICIPATORY ENGINEERING 2 – Chair: Mike Yearworth (University of Bristol)**

- PIANOSI, Francesca and Thorsten WAGENER (University of Bristol), *The role of modelling in water engineering: non-stationarity, uncertainty, complexity*
- RHODES, Donna H. (MIT), *Toward a science of anticipatory analysis for engineering systems*
- KHASHANAH, Khaldoun (Stevens Institute), *Risk, complexity, and anticipation in complex socio-technical systems*
- McNAMARA, Curt (Minneapolis College of Art and Design), *Anticipatory design*

### **AE3 ANTICIPATORY ENGINEERING 3 – Chair: Rick Adcock (Cranfield University)**

- YEARWORTH, Mike and Leroy WHITE (University of Bristol, University of Warwick), *Soft engineering: anticipating an increasingly messy landscape for engineering practice*
- SINGER, Janet and Michael SINGER (International Society for the Systems Sciences), *Six degrees of socialisation: revisiting positivist foundations for anticipatory engineering*
- ANTICIPATORY ENGINEERING ROUNDTABLE DISCUSSION

### **AM1 ANTICIPATION THROUGH MIGRATION 1 – Chair: Paolo Boccagni (University of Trento)**

- BOCCAGNI Paolo and Milena BELLONI (University of Trento), *Introduction to the featured session*
- CARLING Jørgen (Peace Research Institute Oslo), *The nature of imagined mobilities*
- DEMARIA HARNEY, Nicholas (The University of Western Australia), *Anticipation and knowledge: migration, apprehension and the uncertainty of futures*
- IBÁÑEZ-ANGULO (Universidad de Burgos), *Where is that place we called home? Anticipation and the construction of flexible return scenarios*

### **AM2 ANTICIPATION THROUGH MIGRATION 2 – Chair: Milena Belloni (University of Trento)**

- BIERNACKA Maja, Wojciech WADOLOWSKI and Lukasz KISZKIEL (University of Bialystok), *Residential stability vs propensity to migrate. Future orientation options and its correlates*

- GOOSKENS, Imke (University of Cape Town), *“Home is where my heart belongs”*: Aspiration in the lives of young Angolans living in Cape Town
- MAHAMAT, Adam (University of Maroua, Cameroon), *Preventing African migrations: an analysis on policy making*

#### **AN1 ANTICIPATING NATURE 1 – Chair: Rocco Scolozzi (University of Trento)**

- KOSOW, Hannah (University of Stuttgart), *Telling better stories about socio-environmental futures? Forms of ‘CIB & simulation’ and their effects*
- DE BAVELAERE, Nicole H.N. (ISSS-International Society for the Systems Sciences), *Nature, master of anticipation*
- ROVERO, Francesco (MUSE-Museo delle Scienze, Trento), AHUMADA, Jorge (Betty & Gordon Moore Center for Science and Oceans, Washington DC), *The tropical ecology, assessment and monitoring (TEAM) network: an early warning system for nature*
- AHTEENSUU, Marko (University of Turku), *Stowaway assumptions in decision frameworks for the conservation of endangered species under climate change*

#### **AN2 ANTICIPATING NATURE 2 – Chair: Alessandro Gretter (Fondazione Edmund Mach, Italy)**

- GIOVANNINI, Lorenzo (University of Trento), *High-resolution forecasts of the thermal comfort in the urban area of Trento*
- CIOLLI Marco, IANNI Elena, ZATELLI Paolo, GENELETTI Davide, TATTONI Clara (Università di Trento), Elena Ianni, (Universidad Nacional Autónoma de México), *Landscape changes and future scenarios in the Alps: a holistic ecological approach.*
- OLMEDO, Marcela (Kent University), *The role of knowledge, network and sense of community in building anticipation capacity for natural risk management*
- MIKOVA, Nadezhda (Institute for Statistical Studies and Economics of Knowledge, Moscow), *Climate change and our future: anticipating trends and challenges*

#### **AN3 ANTICIPATING NATURE 3 – Chair: Emanuele Eccel (Fondazione Edmund Mach, Italy)**

- LOW, Sean (Institute for Advanced Sustainability Studies, Potsdam), *Solar radiation management: foresight for governance (SRM4G)*
- BLAL, *Predicting the impacts of multi-purpose watershed management: the case of soil erosion control and poverty alleviation in the Upper Anseba Watershed (Eritrea)*
- POPE, Lexi (University of Georgia), *Anticipating future socio-environmental change in Taveuni, Fiji*
- RIZZOLI, and ROSÀ (Fondazione Edmund Mach, Italy), *Global changes and the emergence of zoonotic diseases: what's next?*

### **AS1 ANTICIPATION IN ECONOMIC STRATEGIES 1 – Chair: Liisa Valikangas (Aalto University)**

- ÇEPNI, Elif (Bahcesehir University, Istanbul), *The possible scenarios of using foresight in economic thought schools*
- KLESNIAK-LEBKOWSKA, Grażyna (Warsaw School of Economics), *Evolving global challenges impact on business strategies and education from 2015 to 2050*
- ALLOING Camille, and Nicolas MOINET (University of Poitiers), *‘Economic intelligence’: from weak signals to weak signs - The share of communication in anticipation*
- DELLA VALLE Nives and Chiara D’ARCANGELO (University of Trento), *Information determining expectations through self-control in intertemporal decisions*

### **AS2 ANTICIPATION IN ECONOMIC STRATEGIES 2 – Chair: Elif Cepni (Bahcesehir University)**

- ORHONEN, Anne M., Liisa VÄLIKANGAS and Ilkka TUOMI (Aalto University), *Active waiting as an anticipatory strategy - toward four practices in the creation of a business ecosystem*
- ATHAYDE, Ezequiel (UOL, Brasil), *Economic anticipation theory*
- PESCHL Markus F. and Thomas FUNDNEIDER (University of Vienna), *From predicting the future to enabling ‘thinking from the future as it emerges’*
- SUNDQVIST, Henna, Anna AMINOFF, Maria ANTIKAINEN, Outi KETTUNEN and Mikko DUFVA (VTT Technical Research Centre of Finland Ltd), *Towards circular economy – enhancing anticipatory decision-making in organizations by gamification*

### **BF1 BRING FORTH FUTURES 1 – Chair: Mark Swilling (Stellenbosch University)**

- POPOVICH, Mila (World Academy of Art and Science), *Bring forth Futures: Anticipation for Culture Making and World Building in the 21st C.*
- FERREIRA SILVA, Cidália (University of Minho), *Anticipating the unexpected: between desire and alchemy*
- GUTENSCHWAGER, Gerald A. (Washington University), *Collective anticipation: art or science, or both?*
- GOEPEL, Ferreira Silva (Wuppertal Institute), *Towards transformative literacy: the role of mindshifts in system innovations*

### **BF2 BRING FORTH FUTURES 2 – Chair: Mila Popovic (World Academy of Art and Science)**

- SWILLING, Mark (Stellenbosch University), *The contribution of transdisciplinary research to anticipatory thinking: a perspective from Africa*
- SNOWDEN, David (Cognitive Edge Pte Ltd.), *From anticipation to triggering anticipatory awareness*
- KOENIG, Phillip & Pierre-Antoine BARAILLE (Praneo), *Discipline of anticipation*

- HICHERT, Tanja (Hichert & Associates Ltd), *Novelty as a component of using the future (in Africa)*

### **BF3 BRING FORTH FUTURES 3 – Chair: Mark Swilling (Stellenbosch University)**

- STEWARD, Chip (CUNY), *Anticipation in Librarianship: the interplay of texts, agendas, and creativity*
- HAJER, Maarten (University of Amsterdam), *Next economy*
- BRING FORTH FUTURES ROUNDTABLE DISCUSSION

### **CC1 NEAR FUTURE AS CULTURAL CONSTRUCT 1 – Chair: Marco Bassi (University of Trento)**

- CHOWDHURY, Nusrat S. (Amherst College), *Mines and signs: resource and political futures in Bangladesh*
- WESZKALNYS, Gisa (London School of Economics), *'Road belong oil'? Speculating, waiting, and anticipating in a prospective oil economy*
- DEKA, Maitrayee (University of Milan), *Anticipating a new politics in the electronic bazaars in Delhi*
- ODOK, Godwin (Federal University Dutsin-Ma, Nigeria), *Schooling and anticipatory 'learned helplessness' in Northern Nigeria*

### **CC2 NEAR FUTURE AS CULTURAL CONSTRUCT 2 – Chair: Gisa Weszkalnys (London School of Economics)**

- NORTHCOTT, Michael (University of Edinburgh), *Future suffering and the ethics of climate change mitigation*
- KAUR, Gurinder (India), *"... in anticipation for your blessings": doctor, healer and God*
- BASSI, Marco (University of Trento), *Prophecy as practice of anticipation*
- ILMIN, NAH and Jhonny Antonio PABÓN CADAVID (Université Paris Ouest and Universidad Externado de Colombia), *Towards new imaginations of museum practices through heritage anticipation*

### **CV COMMUNITIES OF VISION – Chair: Heather Moore**

- MOORE, Heather A., Magnus BOMAN and Pedro SANCHES (The Shape of Things, Berlin, KTH, Stockholm), *Principles in Forming Communities of Vision, Practice and Foresight*
- WEIG, Doerte (CSIC-IMF Barcelona), *The moving body: changing our perception to anticipate new vision*
- ADEYEYE Kemi and Maarten Willems (University of Brighton and Eindhoven University of technology), *In anticipation: the renaissance of the architectonics for the events 'without'*

- BLUHM, Roland (U Dortmund University), *The epistemic value of utopias and dystopias*

**DA1 DESIGN AND ANTICIPATION 1 – Chair: TBA**

TBA

**DM DECISION MAKING, COMMUNICATION AND ANTICIPATION – Chair:**

- BRUNET, Sébastien (University of Liège), *Decision-making and anticipation: what is the role of public administration?*
- LEROY, Pieter and Sietske VEENMAN (Radboud University Nijmegen), *Anticipatory governance: theories of change in environmental outlooks*
- BERTOLOTTI, Marco and Patrizia CATELLANI (Catholic University of Milan), *Framing the future: The effects of message framing in political communication on climate change policies*
- COMPAGNI, Jose Maria (FEFAP – Foundation for Education and Training in Political Anticipation), *Towards a more democratic educational system through the use of ICT*

**EA1 EDUCATION AND ANTICIPATION 1: Design – Chair: Keri Facer**

- DUGGAN, James R. (Manchester Metropolitan University), *'Everybody Loves Robots': Founding community engagement of young people and digital futures on enchantment*
- LITTLEJOHN, Deborah (North Carolina State University), *Anticipation and action in graduate-level design programs: Building a theory of relationships among academic culture, professional identity and the teaching environment*
- LIANAKI-DEDOULI, Irianna and Jacques PLOUIN (UNESCO), *Anticipation as a skill to reinforce the intercultural competences of global citizens*
- SUBRAMANIAN, Mathangi (UNESCO), *Educational futures: a complex adaptive systems approach*

**EA2 EDUCATION AND ANTICIPATION 2: Hope – Chair: Johan Siebers**

- AMSLER, Sara and Keri FACER (University of Lincoln and University of Bristol), *Democratic education in the age of anticipation*
- GAYA, Patricia (University of Bristol), *Wild Margins\*: Artfully transgressive educational spaces and prefigurative practice for post-capitalist imaginaries*
- OJALA, Maria (Uppsala University), *Anticipation related emotions of hope and worry concerning global climate change: promoting emotional awareness in education for a sustainable future*

- BIESTA, Gert (Brunel University), *Asking the impossible: working with the unforeseen in teaching*

### EA3 EDUCATION AND ANTICIPATION 3: Practice – Chair: Patricia Gaya

- DELGADO, Patrícia Santos, Rita DE CASTRO ENGLER and Pier Paolo PERUCCIO, *How should schools prepare designers to the future?*
- ODELLA, Francesca (University of Trento), *Social sciences and the design of tools for future learning*
- OJASALO, Katri, Johanna HAUTAMÄKI and Outi TÖRMÄNEN (Laurea, Centria and Lapland Universities of Applied Sciences), *Higher education in the future: creating scenarios for cooperation between Master level education and working life in the year 2025*
- BISHOP, Peter (University of Houston), *Teach the future*

### EA4 EDUCATION AND ANTICIPATION 4: Planning – Chair: Sara Amsler

- DE SOUZA, Ângelo Ricardo (Federal University of Parana), *The educational policy planning: the insufficiency of future perspective in the Brazilian new Education National Plan*
- OPESEYI, Caleb (Directorate of Youth & Community Practices, Lagos), *Anticipation: optimizing decisions off risks, uncertainties for projective-analysis in school organizational management*
- SALINI, Deli (Swiss Federal Institute for Vocational Education and Training SFIVET - Lugano), *Anticipation dynamics in professional development consulting in France*

### FA1 FICTIONS AND THE ARTS 1 – Chair: Andrew Horton (University of Oklahoma)

- ALBERTAZZI, Liliana and Iacopo HACHEN (University of Trento), *Anticipatory processes in nature, perception and arts*
- MOLLON NOVA (EnsadLab, Telecom ParisTech; HEAD-Geneva, Near Future Laboratory), *What is fictional in design fiction?*
- DE PETRIS, Linus and Peter GIGER (Blekinge Institute of Technology), *Anticipation and techno-aesthetic æffect*
- LOVE, Cyprian (Glensdal Abbey), *The future and human soundscape*

### FA2 FICTIONS AND THE ARTS 2 – Chair: Liliana Albertazzi (University of Trento)

- STEWART, Christopher (University of Technology Sydney), *Anticipatory conflict: photography, architecture, war*
- GARDASHUK, Tetiana and H. Skovoroda (National Academy of Sciences, Ukraine), *Bioart: challenging nature, improving nature or threatening nature?*

- PAURA, Roberto (Italian Institute for the Future), *Science fiction and anticipation: a contribution to futures studies and foresight practices*
- RAUSCHER, Anna (University of Frankfurt), *Signs for the future. Visual and verbal anticipations of environmental issues*

**FA3 FICIONS AND THE ARTS 3 – Chair: Christopher Stewart (University of Technology Sydney)**

- HORTON, Andrew (University of Oklahoma), *How many borders do we have to cross to get home? The films of Theo Angelopoulos*
- TESSAROLO, Mariselda and Eleonora BORDON (Padua University), *Anticipation and creativity in art*
- RICCIONI, Ilaria (Free University of Bozen), *The anticipation of postmodern complexity in the social action of avant-garde movements of the Early Nineteenth Century*

**FS1 FUTURES STUDIES 1 – Chair: John Sweeney (Centre for Postnormal Policy and Futures Studies)**

- GOTSEVA, Roumiana (Center for Strategic Foresight, Sofia), *Anticipatory leadership: praxis for individual and collective action under uncertainty and complexity*
- WALLENBORN, Grégoire (Université Libre de Bruxelles), *Planning and foresight as two heterogeneous and complementary modes of thought*
- KIENEGGER, Manuela, Marianne HÖRLESBERGER and Susanne GIESECKE (Austrian Institute of Technology, Vienna), *From foresight to anticipation*
- AMINI, Faruch (Freie Universitaet Berlin), *Forecast and structured analytic techniques*

**FS2 FUTURES STUDIES 2 – Chair: Roumiana Gotseva (Center for Strategic Foresight, Sofia)**

- LAURÉN, H. L. M. and Jorgelina CAPACCIO (Finland Futures Research Centre and Universidad de Buenos Aires), *Anticipation lost in translations*
- ROSSEL, Pierre (ETH, Lausanne), *Foresight undermined by its most usual suspects: the ordinary production of biases by foresighters*
- RUDKIN, Jennifer-Ellen (), *Designing futures by opening up the present*
- DESTATTE, Philippe (Destree Institute), *The bifurcation method*

**FS3 FUTURES STUDIES 3 – Chair: Philippe Destatte (Destree Institute)**

- SAHL, Sahi (Houston), *Compare and contrast foresight methodologies*
- SOKOLOVA, Anna (Higher School of Economics, Russia, Moscow), *Identification of weak signals and wild cards: stages, methods, criteria*
- BEECROFT, R. and I. C. SCHMIDT, *Scenario mapping as a 'third way' of scenario thinking*

- MASOUMI, Mahestan and Victor Vahidi MOTTI (Refah Bank, Iran and Executive Board, World Futures Studies Federation), *Futures studies and creative anticipation in Iran banking industry*

#### **FS4 FUTURES STUDIES 4 – Chair: Pierre Rossel (ETH)**

- SWEENEY, John A. (Centre for Postnormal Policy and Futures Studies), *Would you like to play a game? Reflections on the role of anticipation within foresight gaming systems*
- VAN DER DUIN, Patrick, Jacintha SCHEERDER, Rene HOOGERWERF and Silke DE WILDE (Delft University of Technology, University of Amsterdam, and BAM Infraconsult), *The Dutch 'Horizon scanning 2050'. Signaling and challenging futures*
- OOSTHUIZEN, Marius (University of Pretoria), *Building Stakeholder Mutuality Through Scenario Thinking - Using Anticipation in Post-Apartheid South Africa*
- MOGALE, Ramadimetja, Fhumulani MULAUDZI and Maretha DE WAAL (University of Pretoria), *Cultural Safety and Sensitivity as the core Ethical Responsibilities in Virtual Discussion Forum: A Case Study at University of Pretoria*

#### **FS5 FUTURES STUDIES 5 – Chair: Victor Vahidi Motti (Executive Board, World Futures Studies Federation)**

- CORSI, Patrick and Pierre MASSOTTE (IKBM Sprl Gérant, Brussels and Institut de l'Innovation et du Développement, Mauguio), *On the physics of anticipation*
- GUELL, José Miguel Fernández (Technical University, Madrid), *Bridging the gap between futures studies and urban planning*
- FRITSCHKE, Frank, Marcus JOHN, Birgit WEIMERT, Milos JOVANOVIC and Stefan RESCHKE (Fraunhofer Institute for Technological Trend Analysis), *Anticipation: a bibliometric approach to its connotation, context, and transitions in peer reviewed publications from 1974 to 2014*
- GAUTHIER, T., P.-A. FONTA, J. SUBTIL and E. HARY (University of Applied Sciences Western Switzerland), *A data science-driven investigation of futures studies and anticipation scholarly literature*

#### **FS6 FUTURES STUDIES 6 – Chair:**

- SANDFORD, Richard (London), *A realist approach to evaluating anticipatory projects*

#### **LI1 LIFE ITSELF 1 – John Kineman (President ISSS)**

TBA

## **LI2 LIFE ITSELF 2 – John Kineman (President ISSS)**

TBA

### **MV1 MAKING OF VISIONS 1 – Chair: Martin Sand (Karlsruhe University)**

- SCHNEIDER, Christoph and Martin SAND (Karlsruhe University), *Introduction: the making of visions*
- ALVIAL PALAVICINO, Carla (University of Twente), *Doing is believing*
- BRAND, Urte and Arnim von GLEICH (University of Bremen), *Importance of guiding orientations to give direction in socio-technical systems*
- DICKEL, Sascha and Jan-Felix SCHRAPE (Technische Universität München), *Digital utopianism: the rise of the prosumer*

### **MV2 MAKING OF VISIONS 2 – Chair: SCHNEIDER, Christoph (Karlsruhe University)**

- ENGELS, Franziska and Anna Verena MÜNCH (Technische Universität Berlin), *One site – multiple visions: visioneering between contrasting actors' perspectives*
- FERRARI, Arianna and Andreas Lösch (Karlsruhe Institute of Technology), *How smart grid meets in-vitro-meat – on socio-epistemic practices of visioneering*
- GUDOWSKY, Niklas and Mahshid SOTOUDEH (Austrian Academy of Sciences), *Into grey skies – citizens' visions as a Leitbild for governing science, technology and innovation*
- KOLLIARAKIS, Georgios (University of Frankfurt), *Visions, blinders, and sneak previews: the sociotechnical imaginaries of european security*

### **MV3 MAKING OF VISIONS 3 – Chair: Cynthia SELIN (Copenhagen University)**

- PFEIFFER, Sabine (University of Hohenheim), *The vision of Industry 4.0 in the making – discourse patterns and dynamics of future anticipation*
- NASCIMENTO DUARTE, Bárbara (University of Strasbourg), *The body hacking trend: underground social practices that design the future of the body and humanity*
- VAN LENTE, Harro (Maastricht University), *Visioneering needs: the case of space tourism*
- WENTLAND, Alexander (WZB Social Science Centre, Berlin), *Beyond electric cars: visioneering future mobility, infrastructures, and markets through the electrification of transportation*

### **MV4 MAKING OF VISIONS 4 – Chair: Franziska Engels (Technische Universität Berlin)**

- RODEGHER, Sandra and Cynthia SELIN (Copenhagen University), *Parity and Participation: The Role of Social Influence in Scenario Planning*
- TUTTON, Richard (Lancaster University), *Premediating Mars: Interplanetary Anticipations in Digital Media*

#### NF NORMATIVE FUTURES – Chair:

- STOPPENBRINK, Katja (University of Muenster), *Foreseeability and anticipation. The epistemic dimension of responsibility ascriptions*
- COUTELLEC, Léo & Paul-Loup WEIL-DUBUC (Paris-Sud University), *For an ethics of anticipation – Between hope and responsibility*
- LAVI, Liat (Bar-Ilan University), *Pragmatic hermeneutics*
- VODONICK, John (Saybrook University), *Neo-pragmatism, an ethical anticipatory system*

#### NP1 NEW PARADIGM 1 – Chair: Winston Nagan (University of Florida)

- JACOBS, Gary (World Academy of Arts and Science), *Anticipation as a trans-disciplinary driver of social evolution*
- SAAVEDRA-RIVANO, Neantro (University of Tsukuba), *First Elements Towards the Foundations on an Anticipatory Approach in Economics*
- HOEDL, Eric (), *European Union's long-term anticipation studies 2025, 2030, and 2050*
- GAVRANKAPETANOVIĆ Faris and Bojan ŠOŠIĆ (Academy of Sciences and Arts of Bosnia and Herzegovina), *Are we losing individual leadership potential in the current global trends?*

#### NP2 NEW PARADIGM 2 – Chair: Gary Jacobs (World Academy of Arts and Science)

- NAGAN, Winston (University of Florida), *Anticipation, law, prediction and problem solving*
- ZUCCONI, Alberto (IACP-Istituto dell'Approccio Centrato sulla Persona), *The anticipatory value of the person-centered and people-centered approaches*
- THOMSEN, Knud (Paul Scherrer Institut, Switzerland), *Anticipation as the central element for the working of individual minds and whole societies*
- SKINNER, Angus (FRSA), *Linking Capabilities and Strengths: Consilience*

#### NP3 NEW PARADIGM 3 – Chair: Alberto Zucconi (IACP-Istituto dell'Approccio Centrato sulla Persona)

- ALVAREZ-PEREIRA, Carlos (Innaxis Foundation), *Untying the gridlocks: changing our hermeneutics to bifurcate for good*
- LAZSLO, Andras (Global Visioning), *The human being of the future – manifesto for an inner transmutation*

- KINIGER-PASSIGLI, Donato (ILO), *Crisis risk management: anticipating change / counteracting fragility*

**PA1 POLITICAL ANTICIPATION 1 – Chair: Anna Pigott (Swansea University)**

- CAILLOL, Marie-Hélène (LEAP – Laboratoire Européen d’Anticipation Politique), Political Anticipation, an open field of research and investigation
- BOYD, Emily (University of Reading), Conceptualizing anticipation as a normative ideal of climate governance
- COLONOMOS, Ariel (SciencePO Paris), Self-blinded oracles in dc’s future market for security
- CONLEY, Shannon N. (James Madison University), Negotiating socio-technical contracts: a conceptual development of the anticipatory governance framework

**PA2 POLITICAL ANTICIPATION 2 – Chair: Emily Boyd (University of Reading)**

- DE LEO, Rob A. (Bentley University), Toward An Anticipatory Problem Type: The Political Dynamics of Proactive Policy Change
- KAKOULAKI, Maria; CHRISTAKIS, Alexander N. (Institute for 21<sup>st</sup> Century Agoras), Anticipation with Reason and Vision (New tools and values for Conscious (R)evolution)
- De BAVELAERE, Nicole (Westphal Institute), Political systems need to mimic the anticipatory model

**PA3 POLITICAL ANTICIPATION 3 – Chair: Emily Boyd (University of Reading)**

- HAHN, Christel (IRPA – Internationaler Rat für Politische Antizipation), Political Anticipation - An intercultural view on dealing with the future
- PIGOTT, Anna (Swansea University), Political utopias and anthropocene imaginaries in Wales
- YOSHIZAWA, Go (Osaka University), The power of narratives in policymaking

**PF1 PHILOSOPHY AND THE FUTURE 1 – CHAIR: Tina Röck (Kassel University)**

- MORLEY, Neville (University of Bristol), *Thucydides and the classical foundations of anticipation*
- LUCHETTI, Claudia (University of Tübingen), TBA
- ALFIERO, Giacomo (University of Genoa), *Future and surprise in Hume’s theory of time*
- DANILKINA, Natalia (Independent scholar), *Future world as a transcendental object: Kant’s pre-methodological invention*

## **PF2 PHILOSOPHY AND THE FUTURE 2 – CHAIR: Salvatore Vasta (University of Catania)**

- SZERSZYNSKI, Bronislaw (Lancaster University), *Acting ahead of the future*
- MEYER, Ulrich (Colgate University), *Fatalism as a metaphysical thesis*
- HUIJER, Marli (Erasmus University Rotterdam), *The power of promises*
- DOLEV, Yuval (Bar-Ilan University), *Knowledge about the future*

## **PF3 PHILOSOPHY AND THE FUTURE 3 – CHAIR: Claudia Luchetti (University of Tübingen)**

- DONATO, Oscar Mauricio (University of Buenos Aires), *Nietzsche and the philosophers of the future*
- JANCARY, Jonathan (University of Innsbruck), *The future as an undefined and open time – a Bergsonian approach*
- RÖCK, Tina (Kassel University), *The Dimension of Future in ontology – A conception of temporal Reality with Bergson and Deleuze*
- CARVALHO, Nuno (Lisbon University), *Deleuze's conception of the future*

## **PF4 PHILOSOPHY AND THE FUTURE 4 – CHAIR: Gottfried Heinemann (Kassel University)**

- CERVO, Giuliana (University of Trento), *Rethinking the future with Arendt and Fink: political action and play as models of anticipation*
- LUEDIGER, H. H. J. (Independent scholar), *Participare → anticipare → emancipare*
- VASTA, Salvatore (University of Catania), *Through past in the future. The tacit basis of knowledge as philosophical question*
- DATTA, Maitreyee (Jadavpur), *Is the distinction among past, present and future possible?*

## **PF5 PHILOSOPHY AND THE FUTURE 5 – CHAIR: Marli Huijer (Erasmus University Rotterdam)**

- VON PETERSDORFF, Friedrich (Independent scholar), *The future within the epistemology of Karl Popper*
- HEINEMANN, Gottfried (Kassel University), *Praesens de futuris: Whitehead on how to be going to move forward into the future*
- FORTINO, Mirella (), *Future and scientific conception of the world without philosophy*
- SAMANIEGO, Fernanda (Philosophy of Science at UNAM), *How do physicists create future?*

## **PF6 PHILOSOPHY AND THE FUTURE 6 – CHAIR: Jonathan Jancsary (University of Innsbruck)**

- SIEBERS, Johan (London), *Bloch's Theory of Anticipatory Consciousness and Transcendental Philosophy*

**PS PSYCHOLOGICAL ANTICIPATION – Chair: Liliana Albertazzi (University of Trento)**

- BICKHARD, Mark (Lehigh University), *Representation and/or anticipation?*
- LABRA-SPRÖHNLE, Fabián, Garth SMITH, Helmut AHAMMER, Paul TEESDALE-SPITTLE, Ivy LIU, Marcus FREAN and Claire POSTLETHWAITE (Victoria University of Wellington, Nelson Marlborough District Health Board, New Zealand, Medical University of Graz, University of Auckland), *The anticipatory patterns of thinking in attention-deficit/hyperactive disorder (ADHD): diagnostic accuracy of geometric and kinematic measures*
- TABASSUM, Nazool-e, Faisal MUSHTAQ and Alexandre SCHAEFER (University of Durham, University of Leeds, Monash University, Malaysia), *An electrophysiological investigation into emotional anticipation and pre-stimulus subsequent memory enhancements*
- ZABOROWSKI, Robert (Polish Academy of Science), *Affectivity as an underlying factor in determining an individual's approach to the future*

**PT PAST ANTICIPATIONS – Chair:**

- HARRISON, Rodney, Sefryn PENROSE, Cornelius HOLTORF, Sarah MAY, Caitlin DESILVEY, Nadia BARTOLINI, Sharon MACDONALD and Jennie MORGAN (UCL, London; Linnaeus University, Kalmar, Sweden; University of Exeter; Humboldt University of Berlin), *Assembling Alternative Futures for Heritage*
- VISCOMI, Joseph J. (University of Michigan), *Ominous futures: imperial rivalries, anticipation, and the repatriation of Italians from Egypt, 1919-1937*
- FACIONI, Carolina (ISTAT), *Anticipatory minds: the Italian contribution to Futures Studies*
- MONTAGNINI, Leone (Rome), *Quantitative and qualitative approaches to the future in Wiener*

**RR1 RESPONSIBLE RESEARCH AND INNOVATION 1: Conceptualizing RRI – Chair: Luigi Pelizzoni (University of Trieste)**

- GENUS, Audley and Mara ISKANDAROVA (Kingston University), *Emerging themes and controversies in Responsible Research and Innovation: a narrative review*
- MALI, Franc and Toni PUSTOVRH (University of Ljubljana), *The RRI discourse as a 'third way' between the precautionary and the proactionary principles?*
- MEACHAM, Darian (University of Bristol), *Ancient anticipations: folk understandings of nature and emerging technologies*
- SIMONE, Angela (Fondazione Bassetti, Milano), *Open access: a peculiar aspect of RRI in EU funded projects*

**RR2 RESPONSIBLE RESEARCH AND INNOVATION 2: The politics of RRI – Chair: Luigi Pelizzoni (University of Trieste)**

- BÖSCHEN, Stefan, Ulrich DEWALD and Julia HAHN (Karlsruhe Institute of Technology), *Responsible research and innovation: technocratic guiding principle or a mean for democratization of innovation?*
- MACNAGHTEN, Philip (Wageningen University), *A Responsible Innovation Governance Framework for GM Crops: Global Lessons for Agricultural Sustainability*
- PELIZZONI, Luigi (University of Trieste), *Problematizing future and politics in Responsible research and innovation*
- SELIN, Cynthia, Ângela Guimarães PEREIRA, Sarah R. DAVIES and Gretchen GANO (Technical University of Denmark, European Commission - DG Joint Research Centre, University of Copenhagen), *Mediation and scenarios: unpacking power, politics and persuasion in future-oriented inquiry*

**RR3 RESPONSIBLE RESEARCH AND INNOVATION 3: Mapping responsibility in RRI – Chair: Phil Macnaghten (Wageningen University)**

- ARNALDI, Simone (University of Padua), *Expectations, social action and modes of activation: a proposal for a heuristic framework of responsibility*
- FELT, Ulrike (University of Vienna), *Anticipating futures, distributing responsibilities: a comparative reflection on different issue areas*
- KUHLMANN, Stefan, Gonzalo ORDONEZ-MATAMOROS and Bart WALHOUT (University of Twente), *Governing towards Responsible Research and Innovation (RRI) - dimensions, options and limitations*
- RUGGIU, Daniele (University of Padua), *Models of anticipation within the responsible research and innovation framework: an overview from the human rights perspective*

**RR4 RESPONSIBLE RESEARCH AND INNOVATION 4: Applying RRI – Chair: Phil Macnaghten (Wageningen University)**

- BARD, Imre (London School of Economics), *Neuroenhancement & RRI*
- ENGELER NEWBURY, Bridgette (Swinburne University of Technology), *Designing for future wellbeing*
- FUCHS, Daniela and André GAZSÓ (Austrian Academy of Sciences), *Anticipating and handling risks: nano risk governance in Austria*
- MURPHY, Pdraig, *The NUCLEUS project: Irish and international perspectives on embedding RRI within Higher Education Institutes*

SF1 SOCIOLOGIES OF THE FUTURE 1 – Chair: TBA

### ST1 SYSTEM THINKING 1 – Chair: José A. Amozurrutia (Universidad Autonoma de Mexico)

- TUOMI, Ilkka (Aalto University), *Second-order anticipation in innovation ecosystems a cellular model of socio-technical chimeras*
- LEYESDORFF, Loet (Amsterdam University), *Anticipation in science*
- MAKARENKO, Alexander (National Technical University of Ukraine), *The principles, models and applications of anticipation in society evolution*
- CERIANI, Giulia (University of Siena), *(Socio)-semiotics of anticipation: the contribution to a new anticipatory paradigm*

### ST2 SYSTEM THINKING 2 – Chair: Ilkka Tuomi (Aalto University)

- HODGSON, Anthony (Decision Integrity Lmd), *Developing the human anticipatory system*
- AMOZURRUTIA, José A., Patricia E. ALMAGUER KALIXTO, Carlos BARRÓN PASTOR and Chaime MARCUELLO-SERVOS (Universidad Autonoma de Mexico, Universidad de Zaragoza), *Sociocybernetics, Systems Thinking and Anticipation*
- ZACKERY, Ali et al (University of Teheran), *An enhanced policy-making platform designed based on anticipatory systems for futures studies*
- CEVOLINI, Alberto (University of Modena and Reggio Emilia), *The Strongness of Weak Signals. Self-reference and Paradox in Anticipatory System*

### UF URBAN FUTURES – Chair: Sebastiani Citroni (University of Milan-Bicocca)

- BORGHI, Vando (University of Bologna), *Human right to research and the city: urban futures as an issue of informational basis of judgment*
- ROTARU, Irina (Politecnico di Milano), *Design & anticipation. Envisioning the city of tomorrow*
- SIEWEKE, Jorg (University of Virginia), *Curating a park through ongoing modified maintenance instead of construction*
- HYLER, Samantha (Lund University), *Visions and the mainstreaming of public life*

### WF1 WELFARE AND THE FUTURE 1 – Chair: Francesca Odella (University of Trento)

- FORTE, Paul, Riel MILLER and Tom BOWEN (London School of Hygiene & Tropical Medicine, UNESCO), *A futures literacy application in health care: the 'managed outcomes' project*
- STRATTON, Peter (University of Leeds), *Anticipatory schemas and causal expectations in systemic therapy*
- AASSVE, Arnstein, Francesca LUPPI and Letizia MENCARINI (Bocconi University, University of Turin), *Anticipating parenthood among Australian couples. Expectations and consequences of having children on parents' life-domains satisfaction*
- LEMOS DEKKER, Natashe (University of Amsterdam), *Anticipation of future suffering: Euthanasia and dementia in the Netherlands*

**WF2 WELFARE AND THE FUTURE 2 – Chair: Francesca Odella (University of Trento)**

- SANTERO, Arianna and Francesca LUPPI (University of Turin), *Who is responsible for taking care of the infants? Gender attitudes*