

SPRU 50th Anniversary Conference
Draft Full Programme

Wednesday 7 September

15.00-16.30

A	<p>Dialogue session: Transforming innovation from below? Grassroots action for sustainable developments Organiser: Adrian Smith Chair: Adrian Smith Panellists: Judith Sutz, Amber Meikle, Dinesh Abrol, Mariano Fressoli</p>	Jubilee 144
B	<p>Dialogue session: STI in the United Nations: historical reflections and lessons for the Sustainable Development Goals Organiser: Adrian Ely Chair: Adrian Ely Panellists: Geoff Oldham, Dong Wu, Elenita 'Neth' Daño, Joanna Chataway</p>	Fulton 104
C	<p>Dialogue session: 50 years of nuclear policy research: reflections on the history and prospects of atomic energy Organiser: Phil Johnstone Chair: Phil Johnstone Panellists: Gordon MacKerron, William Walker, Steve Thomas, Bill Nuttall</p>	Jubilee 115
D	<p>Dialogue session: Policy mixes for innovation: Progress and challenges ahead Organisers: Karoline Rogge, Florian Kern Chair: Florian Kern Panellists: Rainer Quitzow, Karoline Rogge, Kieron Flanagan, Michael Keenan</p>	Fulton 202
E	<p>Dialogue session: Rethinking pharmaceutical innovation: New models for more efficient R&D and improved patient access Organisers: Mariana Mazzucato, Michael Hopkins Chair: Michael Hopkins Panellists: Richard Torrbett, Virginia Acha, Els Torreale</p>	Jubilee 155
F	<p>Dialogue session: Governing national and international science, technology and innovation efforts for the grand challenges Organiser: Andreas Stamm Chair: Andreas Stamm Panellists: Keith Smith, Wolfgang Polt, Aurelia Figueroa</p>	Fulton 203
G	<p>Dialogue session: The impact of innovation on society: reflections on the clash between intellectual property rights and human rights' protection Organiser: Elisa Giuliani Chair: TBC Panellists: Valeria Arza, Anabel Marin, Enrico Bonadio</p>	Jubilee G22
H	<p>Dialogue session: Entrepreneurship, policy and industrial dynamics Organiser: Paul Nightingale Chair: TBC Panellists: Alex Coad, Marc Cowling, David Storey</p>	Fulton 107
I	<p>Dialogue session: Challenges of research impact assessment for addressing societal challenges Organiser: Pierre-Benoit Joly Chair: Philippe Larédo Panellists: François Houllier, Jordi Molas-Gallart, Arthur Mol</p>	Jubilee 116

Thursday 8 September, Session 1. 09.00-10.30

1A	<p>Dialogue session: Open science and the development of policy options for innovation Organiser: Molly Morgan Jones Chair: Joanna Chataway</p> <p>Panellists: Molly Morgan Jones, Elta Smith, Kei Ito</p>	Fulton 104
1B	<p>Dialogue session: Transforming evaluation: How can research assessment help address global challenges and societal transformations? Organiser: Ismael Rafols, Michael Hopkins</p> <p>Panellists: Jonathan Adams, Valeria Arza, Gavin Reddick, Judith Sutz, Paul Wouters</p>	Jubilee 155
1C	<p>Research session: Innovation, sectoral systems and catch-up cycles Organiser: Franco Malerba Discussant: Ariel Wirkierman Chair: Martin Bell</p> <p>Toward a theory of catch-up cycles and changes in industrial leadership: windows of opportunity and responses by firms and countries in the evolution of sectoral systems Keun Lee, Franco Malerba</p> <p>Catch-up cycles and changes in industrial leadership in steel and other industries Keun Lee, Jeehoon Ki</p> <p>A history-friendly model of the successive changes in industrial leadership and the catch-up by latecomers Fabio Landini, Keun Lee, Franco Malerba</p>	Jubilee 115
1D	<p>Research session: Sustainable and inclusive urban infrastructure: a need for a sea change? (1) <i>Part 1: Sustainable and inclusive urban infrastructure: urban systems</i> Organiser: Ralitsa Hiteva, Kat Lovell, Tim Foxon Discussant: Andrew Davies Chair: Alex Marsh</p> <p>Towards a new approach for infrastructural innovation: overcoming assumptions of governability for inclusive and resilient urban systems Mendel Giezen, Eric Chu, Luca Bertolini</p> <p>Transition to sustainable urban waste management Antje Klitkou, Markus M. Bugge, Arne Fevolden</p> <p>Can cities be important actors in realising the public interest benefits of smart meter data? Jess Britton</p>	Jubilee 144
1E	<p>Research Session: Is market selection a useful metaphor to understand innovation and economic dynamics? Organiser: Uwe Cantner, Simone Vannuccini Chair: Simone Vannuccini Discussant: André Lorentz</p> <p>The footprint of evolutionary processes of learning and selection upon the statistical properties of industrial dynamics Giovanni Dosi, Marcelo C. Pereira, Maria Enrica Virgillito</p> <p>Weak selection dynamics and evolutionary competition Werner Hölzl</p> <p>Schumpeterian interaction: Extending the replicator dynamics Uwe Cantner, Simone Vannuccini</p>	Fulton 202
1F	<p>Governance of innovation 1</p>	Fulton 203

	<p>Chair: Adrian Ely</p> <p>Directing innovation with regulation: history, the status quo and proposals for change <u>Erik Millstone</u></p> <p>Beyond experiments: shaping a joint research agenda for climate governance innovation <u>Bruno Turnheim</u>, Paula Kivimaa, Frans Berkhout</p> <p>The 'Asbestos Index' for disapproved innovations: variation across countries <u>Alex Coad</u></p>	
1G	<p>Community/distributed energy session Chair: Marilyn Brown</p> <p>Community energy as institutional innovation: rules, discourses and grassroots agency <u>Audley Genus</u>, <u>Marfuga Iskandarova</u></p> <p>Distributed energy storage systems: effects on demand volatility <u>Marco Valente</u>, Tommaso Ciarli</p> <p>Solar power-as-service – What about the impact on local energy autonomy? <u>Jouni Juntunen</u></p>	Fulton 113
1H	<p>Innovation horizons Chair: Gregor Semieniuk</p> <p>The ecosystem implications of commercialization objectives in mission-oriented public agencies: space in the US and the EU <u>Mariana Mazzucato</u>, Douglas K. R. Robinson</p> <p>Biotechnology as a new techno-economic paradigm which will help power the next long upturn <u>Andrew Tylecote</u></p> <p>Innovation's future: A counter-cyclical strategy to defeat austerity <u>Henry Etzkowitz</u>, Alex Etzkowitz, Alice Zhou</p>	Jubilee 116
1I	<p>Controversies in Technology Policy Chair: Laurence Williams</p> <p>Innovation policy at stake: Should we throw the baby with the bath waters or change the composition of the bath waters <u>Philippe Larédo</u></p> <p>The Swedish National Innovation Council – Governance to replace linearity with holism in innovation policy <u>Charles Edquist</u></p> <p>A solution looking for a problem? promises, social reconfigurations, and the "deficit model" of innovation <u>Joakim Juhl</u>, Sebastian Pfothenauer</p>	Fulton 103
1J	<p>New Conceptualisations Chair: Sabine Hielscher</p> <p>Mapping and narrating a plurality of publics for socio-technological transformations <u>Go Yoshizawa</u></p> <p>Serendipity in research and innovation: Towards a taxonomy and a theory <u>Ohid Yaqub</u></p> <p>Additive manufacturing in transition: Mobilising framing and overflowing to understand the creation and normalisation of protected spaces</p>	Jubilee G22

	<u>Douglas Robinson</u> , Philippe Laredo, Axel Lagnua	
1K	<p>Academic spinouts and knowledge transfer Chair: Paloma Bernal</p> <p>Upstream versus downstream antecedents of academic entrepreneurship: are scientific discoveries or interaction with users that matter? <u>Irene Ramos-Vielba</u>, Pablo D'Este, Mabel Sánchez-Barrioluengo, Alfredo Yegros</p> <p>The strategic orientation of universities in knowledge transfer activities <u>Paola Giuri</u>, Alessandra Scandura, Federico Munari, Laura Toschi</p> <p>University management practices and academic spin-offs <u>Francesco Rentocchini</u>, Mario Benassi , Matteo Landoni</p>	Jubilee G31
1L	<p>MNCs and innovation in emerging markets Chair: Maria Savona</p> <p>The social networks of inventors in Chinese and Indian multinationals' Cross-border acquisitions <u>Elisa Giuliani</u>, Arianna Martinelli, Roberta Rbellotti</p> <p>How has the dual embeddedness of the multinational enterprise subsidiaries influenced the development and evolution of the Indian software innovation system? <u>Nidhi Chaudhary</u></p> <p>From leapfrogging of firms to leapfrogging of industries: The effect of outward FDI by emerging market multinationals on home country industrial development <u>Teis Hansen</u>, Ulrich E. Hansen</p>	Fulton 107

Thursday 8 September, Session 2. 11.00-12.30

2A	<p>Dialogue session: 50 years of science technology and innovation policy in Latin America and beyond Organiser and Chair: Matias Ramirez</p> <p>Panellists: Paloma Bernal, Judith Sutz, Gabriela Dutrenit, Alejandro Olaya, Jorge Robledo Velasquez, Jose Miguel Benavente</p>	Fulton 104
2B	<p>Research session: Innovation systems and structural transformation from an historical perspective Organiser and Chair: Maria Savona Discussant: Jan Fagerberg</p> <p>Toward a taxonomy of national systems of innovation system in European and Latin American countries <u>Alessandro Nuvolari</u></p> <p>Varieties of innovation systems and structural changes in Europe: Challenges for the 21st century” <u>Maria Savona</u></p> <p>Financial cycles and macroeconomic dynamics José Antonio Ocampo, <u>Mario Cimoli</u></p>	Jubilee 155
2C	<p>Capitalism and regime transformation Chair: Phil Johnstone</p> <p>Spatial systems of innovation: adapting the national innovation systems approach to the global capitalist dynamics <u>Juan Carlos Mondragon-Quintana</u></p> <p>Social innovation and the creative destruction of capitalism: rethinking innovation after the financial crisis <u>Kyriaki Papageorgiou</u></p> <p>Innovation policy in the age of transitions <u>Gijs Diercks</u>, Henrik Larsen, Fred Steward</p>	Jubilee 116
2D	<p>Research session: Sustainable and inclusive urban infrastructure: a need for a sea change? (2) <i>Part 2: Sustainable and inclusive urban infrastructure: Decentralised and smart urban experiments?</i> Organiser: Ralitsa Hiteva, Kat Lovell, Tim Foxon Discussant: Ed Steinmueller Chair: Margot Weijnen</p> <p>Innovative decentralised urban infrastructure: key factors in the direction of development <u>Chris Bouch</u>, Chris Baker, Chris Rogers, Ian Bartle</p> <p>Five contradictions of smart-sustainable urbanism <u>Chris Martin</u>, James Evans, Andrew Karvonen</p> <p>Smart City Construction: toward an analytical framework for smart city experimentation <u>Frans Sengers</u>, Philipp Späth, Rob Raven</p>	Jubilee 144
2E	<p>Research Session: Investigating unchartered grounds on open innovation: understanding open innovation in SMEs Organiser: George Tsekouras</p> <p>Entrepreneurial experimentation: The importance of spin-off and acquisition of innovative SMEs Asa Lindholm Dahlstrand, Bo Carlsson, Martin Andersson</p> <p>Open innovation ecosystems for entrepreneurs involved in social innovations</p>	Jubilee 115

	<p><u>John Bessant</u></p> <p>Collaborating with ‘gorillas’ to scale up: challenges, strategies and implications <u>Vareska van de Vrande</u></p> <p>Managing open innovation projects in SMEs: A conceptual framework and a plan of research <u>George Tsekouras</u></p>	
2F	<p>Social innovations Chair: Adrian Smith</p> <p>Innovation as a political process of development: Are Neo-Schumpetarians value neutral? <u>Theo Papaioannou</u>, Smita Srinivas</p> <p>The humanisation of the economy through transformative social innovation, countering processes of marketisation and bureaucracy <u>René Kemp</u>, Tim Strasser, Marc Davidson, Paul Weaver, Julia Backhaus, Bonno Pel, Flor Avelino, Alex Haxeltine, Adina Dumitru</p> <p>Plural future/s: Enacting critical and speculative design at the policy-publics interface <u>Georgina Voss</u>, <u>Justin Pickard</u>, Tobias Revell</p>	Fulton 107
2G	<p>Entrepreneurial states Chair: Andrea Laplane</p> <p>Mission-oriented policies: a new framework applied to the case of Brazil’s Inova programme Mariana Mazzucato, <u>Caetano Penna</u></p> <p>Public entrepreneurship: dynamic collaborative governance for social innovation <u>Christopher S. Hayter</u>, Albert Link</p> <p>The role of state investment banks in enabling low-carbon technological change <u>Anna Geddes</u>, Tobias S. Schmidt</p>	Fulton 202
2H	<p>Renewable energy session Chair: Mari Martiskainen</p> <p>Global development trajectories in the wind and solar photovoltaics sector: how technology related differences shape the dynamics of international knowledge transfer <u>Rainer Quitzow</u>, Joern Huenteler</p> <p>Technological knowledge networks in China: the case of PV technology Iciar Dominguez Lacasa, <u>Mahmood Shubbak</u></p> <p>The green fling: Market volatility in incumbent industries and sustainability transitions in an oil-fuelled economy Jakoba Sraml Gonzalez, Tuukka Makitie, Keith Smith, <u>Taran Thune</u></p>	Fulton 203
2I	<p>Big data as a tool for mapping innovation Chair: Ismael Rafols</p> <p>Innovation policy-making in the big data era <u>Hasan Bakhshi</u>, <u>Juan Mateos-Garcia</u>, Stian Westlake</p> <p>Evidence of big data value for broadcasters: A qualitative analysis on R&D projects from BBC and NHK <u>Santiago Ruiz-Navas</u>, Kumiko Miyazaki</p> <p>Economic and technological complexity: a model study of indicators of knowledge-based innovation systems <u>Inga Ivanova</u>, Øivind Strand, Duncan Kushnir, Loet Leydesdorff</p>	Fulton 103

2J	<p>Medical innovation Chair: Ohid Yaqub</p> <p>Brazilian research networks in dengue: evidence for policy and planning <u>Bruna de Paula Fonseca</u></p> <p>Network heterogeneity, scientific performance and medical innovation Oscar Llopis, Maureen McKelvey, Irene Ramos-Vielba, Alfredo Yegros, <u>Pablo D'Este</u></p> <p>When author becomes inventors: an empirical analysis on patent-paper-pairs in medical research <u>Arianna Martinelli</u>, Elena Romito</p>	Jubilee G22
2K	<p>R&D, productivity and structural change Chair: David Walwyn</p> <p>Sector dynamics and firms demographics of top R&D investors in the global economy <u>Pietro Moncada-Paternò Castello</u></p> <p>The compositional nature of productivity slowdown <u>Simone Vannuccini</u>, Uwe Cantner, Holger Graf</p> <p>Economies of skill of R&D intensive firms. Breaking the law of diminishing marginal returns to labour <u>Sara Amoroso</u></p>	Jubilee G31

Thursday 8 September, Session 3. 14.20-15.20

3A	<p>Follow up session to Panel 3 - Dialogue session: The work of the IPSP</p> <p>Social progress a compass <u>Saurabh Arora</u></p> <p>Markets, finance and corporations: Does capitalism have a future? <u>Raphie Kaplinsky</u></p> <p>Inequality and social progress <u>Judith Sutz</u></p>	Fulton 104
3B	<p>University-industry tech transfer Chair: Pablo D'Este</p> <p>University characteristics and the creation of high-growth spin-offs. An empirical investigation of the UK <u>Ugo Rizzo</u>, Francesco Rentocchini, Laura Ramaciotti</p> <p>Determinants of university licensing strategies: case of two French universities <u>Sila Öcalan-Özel</u>, Julien Penin</p>	Jubilee 115
3C	<p>Transitions Chair: Tim Foxon</p> <p>A grand societal experiment <u>Arie Rip</u></p> <p>How to study transition problems: a systematic review and methodological critique <u>Mohammadreza Zolfagharian</u></p>	Jubilee 116
3D	<p>Innovation systems Chair: Karoline Rogge</p> <p>Global innovation systems: A framework for technological innovation in transnational contexts Christian Binz, <u>Bernhard Truffer</u>, Lars Coenen</p> <p>Re-casting the innovation systems 'net' through experiences with energy system change <u>Alexandra Mallett</u></p>	Jubilee 155
3E	<p>Technological trajectories Chair: Marco Valente</p> <p>Technological diffusion as a recombinant process. A look to patent data <u>Petros Gkotsis</u>, Antonio Vezzani</p> <p>Mapping research priorities and their relation to societal needs over time. The case of rice research since the '80s <u>Tommaso Ciarli</u>, <u>Ismael Rafols</u></p>	Fulton 101
3F	<p>Transitions in education Chair: Audley Genus</p> <p>Integrating Responsible Research and Innovation (RRI) into scientific training: learning lessons across borders, UK and Brazil Christopher Till, <u>André Sica de Campos</u>, Emma Frow, <u>Janaina Pamplona da Costa</u>, Margarita Staykova, Sara Wilford</p> <p>Grassroots up-scaling of transition experiments: Insights from action research on campus sustainability (2009 – 2016) <u>Zeeda Fatimah Mohamad</u></p>	Fulton 202

3G	<p>Science policy Chair: Ben Martin</p> <p>Model answers <u>Paul Nightingale</u></p> <p>Is science policy a policy science? <u>Caroline Wagner</u></p>	Jubilee 144
3H	<p>Organisations and innovation Chair: Youngha Chang</p> <p>Succession and family business innovation: Case of machinery manufacturing sector in Ankara <u>Merve Gül Barut</u>, Semih Akcomak, Çağrı Topal</p> <p>Adoption and re-adaptation of management practices: The paradox of abandon <u>Rosane Argou Marques</u>, Isabel Maria Bodas Freitas, Gazi Islam</p>	Fulton 203
3I	<p>Cross-section interactions Chair: Ariel Luis Wirkierman</p> <p>Analysing interdependent systemic problems for the diffusion of clean innovations in the Dutch concrete industry Alexander van der Vooren, <u>Joeri H. Wesseling</u></p> <p>Cross-sectoral technological knowledge building and exploitation in the functional food industrial convergence: Empirical study from Japanese functional food industry <u>Paveena Lalitnorasate</u>, Kumiko Miyazaki</p>	Jubilee G31
3J	<p>Natural resource management and technological capabilities Chair: Elisa Arond</p> <p>Natural resource diversity and knowledge idiosyncrasies. Implications for resource intensive development paths and sustainability transitions Allan Dahl Anderson, <u>Olav Wicken</u></p> <p>Sustainable management of natural resources via enhancing knowledge base: experiences from Latin American countries Michiko Iizuka, <u>Fernando Vargas Cuevas</u>, Jakob Baumann</p>	Fulton 113
3K	<p>Policy mixes and change Chair: Paula Kivimaa</p> <p>Alignment of innovation objectives in the policy mix <u>Isabel Maria Bodas Freitas</u></p> <p>Designing policy mixes for transformative changes: Towards a common framework <u>Sebastian Sewerin</u>, Tobias S. Schmidt</p>	Fulton 103
3L	<p>Development income trap Chair: Jang Saeng Kim</p> <p>Trapped in the middle. Development, R&D and the national innovation system. <u>Diana Suárez</u>, Analía Erbes</p> <p>Korea's innovation system transition at the crossroad: System failure or post catch-up? <u>Jae-Yong Choung</u>, Hye-ran Hwang</p>	Jubilee G22
3M	<p>Critical evaluation Chair: Parimal Patel</p>	Fulton 107

	<p>Policy considerations for evidence-based measures of complex innovation systems <u>Sylvan Katz</u></p> <p>Old boys network: Gender gap in science in Japan <u>Aldo Geuna</u></p>	
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Thursday 8 September, Session 4. 15.45-16.45

4A	<p>Research funding and organisations of science Chair: Rosane Argou Marques</p> <p>Back to basics – revisiting rhetoric of competitive research funding allocation and impact agenda in Sweden <u>Katarina Larsen, Susanne Nilsson</u></p> <p>Transforming public research organisations in post-socialist Poland: Old limitations and new routes to intellectual renewal <u>Steffi Heinecke</u></p>	Fulton 107
4B	<p>Direction and organisation of research funding Chair: Stathis Arapostathis</p> <p>R&D policy based on goals: When the reality does not meet expectations <u>Adão Carvalho</u></p> <p>Funding transformative research: ESRC’s challenge to conservatism in peer review <u>Peter Kolarz, Erik Arnold</u></p>	Fulton 202
4C	<p>Politics of inclusion Chair: Valeria Arza</p> <p>The politics of inclusion: Decentralising science, technology and innovation for regional development in Colombia <u>Elisa Arond</u></p> <p>Including indigenous communities in ICTs innovation: The case of first nations in Northern Canada <u>Martha Burkle</u></p>	Fulton 104
4D	<p>Transition regimes and competences Chair: Florian Kern</p> <p>Competences for sustainability transitions – the Climate-KIC Transitions Hub <u>Fred Steward, Cristian Matti, Andreas Huck</u></p> <p>Global socio-technical regimes <u>Lea Fuenfschilling, Christian Binz</u></p>	Jubilee 115
4E	<p>GVC governance, development and catching up Chair: Abel Osvaldo Villa Rodriguez</p> <p>Small farmers’ technological learning in berries for export markets <u>Cecilia Ibarra, Matias Ramirez</u></p> <p>Sustainability transition and technological catch-up guidance of search as a strategic mechanism for leapfrogging <u>Xiao-Shan Yap, Bernhard Truffer</u></p>	Fulton 203
4F	<p>Building futures Chair: Michael Keenan</p> <p>Transformative futures of research and innovation. a meta-analysis of two scenario-building exercises <u>K. Matthias Weber, Stephanie Daimer</u></p> <p>The contrasted delineation of futures. The case of agroecological transition in France <u>Marc Barbier, Sébastien Treyer, Jessica Thomas, Sarah Lumbroso</u></p>	Fulton 113
4G	<p>Green innovation: the firm perspective Chair: Ugo Rizzo</p>	Fulton 103

	<p>External support for resource efficiency measures adoption: An empirical analysis on European SMEs Isabel Maria Bodas Freitas, Nicoletta Corrocher</p> <p>Opportunities for eco-innovation: Identifying actors and underlying knowledge bases in the Netherlands Floortje Alkemade, Carolina Castaldi, Onder Nomaler</p>	
4H	<p>Cognitive proximity, learning and innovation Chair: Alberto Marzucchi</p> <p>Spirituality and network-based learning: the mediating effect of cultural compatibility, creativity, and identity Federica Ceci, Francesca Masciarelli, Andrea Prencipe</p> <p>Don't talk to strangers? Cognitive proximity, social proximity and the productivity of mobile inventors Rasmus Bode, Guido Buenstorf, Dominik P. Heinisch</p>	Jubilee G31
4I	<p>International organisation of research Chair: Allam Ahmed</p> <p>Intergenerational transfer of scientific knowledge and sustainable development of science Sotaro Shibayama</p> <p>Architecting complex international partnerships (CISTIPs) for capacity-building in science, technology, and innovation: A study of four global MIT collaborations Sebastian Pfothenauer, Danielle Wood</p>	Jubilee G22
4J	<p>Medical innovation Chair: Piera Molarcchi</p> <p>Innovation in health care: the contributions of hospital employees to research- and practice-based innovations Taran Thune, Magnus Gulbrandsen</p> <p>Knowledge-intensive consumer services: Case study evidence on the growth of innovative global healthcare tradables Cátia Costa, Sandro Mendonça</p>	Jubilee 144
4K	<p>STI funding Chair: Caetano Penna</p> <p>Innovation in times of financialisation: does financialisation enhance the lack of future-oriented innovations in co-ordinated market economies? The example of Germany Katrin Hahn</p> <p>STI policies, national innovation system and framework conditions: Their impacts on innovation performance in Hungary Attila Havas</p>	Jubilee 116
4L	<p>Innovation indicators and performance Chairs: Chux Daniels and David Walwyn</p> <p>Innovation in Africa: Measurement, policy and global issues Fred Gault, Aggrey Ambali, Tichaona Mangwende</p> <p>On the origins of patents as an invention indicator: The legacy of early steam navigation entrepreneurship and historiography Sandro Mendonça</p>	Jubilee 155

4M	<p>Opening ICTs Chair: Ed Steinmueller</p> <p>Situating open government Data: A crossroads in government-citizen relationships? <u>Daniel J. Paré</u></p> <p>Open Innovation: revealing and engagement in open data organisations Franz Huber, Francesco Rentocchini, <u>Thomas Wainwright</u></p>	Fulton 101
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5A	<p>Dialogue Session: Local production of medicines in LMICs: how can it promote innovative capabilities for resilient and responsive health systems in changing African contexts? Organiser: Geoffrey Banda Chair: Maureen Mackintosh</p> <p>Panellists: Joana Chataway, Dinar Kale, Julius Mugwagwa, Geoffrey Banda</p>	Fulton 104
5B	<p>Research session: Sustainable and inclusive urban infrastructure: a need for a sea change? (3) <i>Part 3: Sustainable and inclusive urban infrastructure: critical perspectives on infrastructure governance</i> Organisers: Ralitsa Hiteva, Kat Lovell, Tim Foxon Discussant: Tim Brady Chair: Aad Correlje</p> <p>What governance innovations are needed to enable infrastructure development contribute to the creation of sustainable and inclusive cities? <u>Tom Dolan</u></p> <p>Value creation and capture for a low carbon infrastructure <u>Ralitsa Hiteva</u>, Tim Foxon, Kat Lovell</p> <p>How transitions may derail: Lessons from innovation and infrastructure history <u>Erik van der Vleuten</u></p>	Jubilee 144
5C	<p>Research session: The role of hospitals in innovation Organiser: Bryn Lander Commentator: Magnus Gulbrandsen Chair: Piera Morlacchi</p> <p>Bench to bedside? Boundaries and innovation in academic health science centres Catherine French, Ewan Ferlie, Naomi Fulop</p> <p>At your service, clinical practice innovation in hospitals Bryn Lander</p> <p>Buying health? Mobilising hospital procurement for sustainable innovation Fiona Alice Miller, Pascale Lehoux</p>	Jubilee 155
5D	<p>Research session: Direction and pace of green technology innovation: What do we need to know about finance and policy to influence it? Organiser and Chair: Gregor Semieniuk Discussant: Ariel Wirkierman</p> <p>Capitalism, technology and a green global golden age: The role of history in helping to shape the future <u>Carlota Perez</u></p> <p>Is going green remaining brown? Directed technical change and the policy mix in energy Innovation <u>Lionel Nesta</u>, Elena Verdolini, Francesco Vona</p> <p>Financing renewable energy: Who is financing what and why it matters <u>Mariana Mazzucato</u>, Gregor Semieniuk</p>	Jubilee 115
5E	<p>Urban transformations Chair: Chiara Fratini</p> <p>Transforming innovation for urban sustainability: an international comparison of technological innovation systems of smart cities <u>Masaru Yarime</u></p>	Fulton 107

	<p>Where to transition to? A full cost framework to analyse a transition from centralised to decentralised urban waste water infrastructure <u>Sven Eggimann</u>, Bernhard Truffer, Max Maureer</p> <p>Innovation in relocalisation in the local food system: understandings of sustainability and urban agriculture connections in the policymaking process <u>Daphne Page</u></p>	
5F	<p>Technology drivers Chair: Jenny Lieu</p> <p>Reformulating rationales for public procurement for innovation (PPI) policies: insights from the China--Brazil Earth Resources Satellite (CBERS) programme <u>Milton de Chagas Freitas</u>, André Sica de Campos, Janaina Pamplona, André Furtado</p> <p>Tailoring innovation policies to technology-specific learning patterns: An analysis of knowledge feedbacks in three clean energy technology innovation systems <u>Abhishek Malhotra</u>, Tobias Schmidt, Joern Huenteler</p> <p>Tech to social or social to tech: Path dependency and the birth of a new entrepreneurial genre. <u>Mario Calderini</u>, Veronica Chiodo, Mattia Corbetta</p>	Fulton 202
5G	<p>Agricultural innovation Chair: Ruth Segal</p> <p>Agro-ecological innovation: fitting or transforming the dominant agro-food system? <u>Les Levidow</u></p> <p>Impact assessments of genetically engineered crops: Informing or forming technological choices? Patrick van Zwanenberg, <u>Anabel Marin</u></p> <p>The structural change on rice agriculture system in Japan by the introducing policy of innovation <u>Shingen Yamamoto</u>, <u>Yutaka Takahashi</u></p>	Fulton 203
5H	<p>Science, technology and development Chair: Maria Savona</p> <p>The technology dimension of industrial policy in developing economies: the connection between policy content and the institutional basis of policy-making <u>Martin Bell</u></p> <p>Benefits and obstacles of openness in science: evidence from four case-studies in Argentina <u>Valeria Arza</u>, Mariano Fressoli</p> <p>South-south trade in capital goods: The market driven diffusion of appropriate technology <u>Raphie Kaplinsky</u>, Rebecca Hanlin</p>	Jubilee 116
5I	<p>Medical innovation 2 Chair: Philippa Crane</p> <p>Designing technologies for sustainable healthcare systems: Articulating a new research agenda on responsible innovation in health <u>Pascale Lehoux</u></p> <p>Co-creation in innovation - towards a theory of co-creation in converging health innovations <u>Ellen Moors</u></p> <p>Do funding sources complement? The case of the UK Cancer Research <u>Daniele Rotolo</u>, Michael Hopkins, Nicola Grassano</p>	Fulton 103

5J	<p>Green entrepreneurship, innovation and skills Chair: Tomas Saieg</p> <p>Better late than never: A longitudinal quantile regression approach to the interplay of firm growth, green technology and age Riccardo Leoncini, <u>Alberto Marzucchi</u>, Sandro Montresor, Francesco Rentocchini, Ugo Rizzo</p> <p>Environmental regulation and green skills: an empirical exploration <u>Davide Consoli</u>, Francesco Vona, Giovanni Marin and David Popp</p> <p>Hierarchical process of innovation policy change - a study of china's transition towards clean mobility <u>Lei Xu</u>, Jun Su</p>	Fulton 113
5K	<p>Micro-innovation and development Chair: Saurabh Arora</p> <p>The role of social capital for creating value in mobile money systems <u>Addisu Lashitew</u></p> <p>Cursed is the ground because of you - religion, ethnicity, and the adoption of fertilizers in rural Ethiopia Marco Guerzoni, <u>Alexander Jordan</u></p> <p>Inclusive innovation at the UK's Department for International Development (DFID) <u>Anke Schwittay</u>, Paul Braund</p>	Jubilee G22

Friday 9 September, Session 6. 11.00-12.30

6A	<p>Dialogue session: Learning innovation agencies and entrepreneurial ecosystems Organiser: José Manuel Leceta Chair: José Manuel Leceta</p> <p>Panellists: Ben Martin, Charles Edquist, Francisco Marín, Josep M. Pique, Mariana Mazzucato</p>	Fulton 104
6B	<p>Dialogue session: Innovation in healthcare delivery – is competition a good thing? The role of the private sector in driving innovation in clinical services Organiser: Peter Varnai, Maïke Rentel</p> <p>Panellists: TBC</p>	Fulton 107
6C	<p>Research session: Intermediary actors in innovation and energy system transition (1) Organisers and Chairs: Paula Kivimaa, Anna Bergek Commentator: Wouter Boon</p> <p>Mapping formal intermediaries in renewable electricity production in Sweden: methodological challenges, empirical findings and conceptual implications <u>Anna Bergek</u>, Ingrid Mignon, Johanna Nählinder</p> <p>Do intermediary organisations challenge the incumbent? <u>Kaisa Matschoss</u>, Eva Heiskanen</p> <p>Intermediating towards transformative change in the building sector – experiences from UK low energy housing case studies <u>Mari Martiskainen</u>, Paula Kivimaa</p>	Jubilee 116
6D	<p>Research session: The interaction between innovation, employment, inequality, and the environment contrasting evolutionary models on global challenges (1) Organiser: Tommaso Ciarli Chair: Richard Nelson Commentators: Andrea Roventini and Tim Foxon</p> <p>When more flexibility yields more fragility: The microfoundations of Keynesian aggregate unemployment <u>Andrea Roventini</u></p> <p>Faraway, so close: An agent-based model for climate, energy and macroeconomic policy <u>Francesco Lamperti</u></p> <p>An evolutionary model of the risk-reward mechanism in the innovation-inequality relationship <u>Ariel Luis Wirkierman</u></p>	Jubilee 144
6E	<p>Innovation in knowledge intensive and creative sectors Chair: Monica Masucci</p> <p>Knowledge intensive entrepreneurship: going beyond the Schumpeterian entrepreneur <u>Maureen McKelvey</u>, Franco Malerba</p> <p>The statistical reality of the creative industries: Defining a rigorous standard <u>Alan Freeman</u>, Hasan Bakhshi, John Davies, Peter Higgs</p> <p>Competitive moves during disruptiveness: A study of digitisation in the Dutch music industry <u>Amber Geurts</u>, Thijs Broekhuizen, Wilfred Dolfsma</p>	Jubilee 115
6F	<p>Standard, regulation and innovation Chair: Erik Millstone</p> <p>Epistemic jurisdiction and its problems: Sustainability standards in global administrative spaces <u>David Winickoff</u>, Matthieu Mondou</p>	Fulton 202

	<p>Platforms and standards: An historical perspective <u>Ed Steinmueller</u></p> <p>Stabilising and de-stabilising toxic regimes: experts, law and agriculture politics in Greece 1940-2015 <u>Stathis Arapostathis</u></p>	
6G	<p>R&D responses to external and internal pressures Chair: Joe Tidd</p> <p>Sailing in all Winds: Technological Search over the Business Cycle <u>Daniela Silvestri</u>, Massimo Riccaboni, Antonio Della Malva</p> <p>The benefit of failure. Does learning-by-failing contribute to successful innovations? Elena Cefis, <u>Riccardo Leoncini</u></p> <p>The evolutionary roots of adaptive capacity: How the past quirks of an organisation's environment influence its future latitude <u>Allard van Mosse</u></p>	Fulton 203
6H	<p>Inclusive innovation Chair: Mammo Muchie</p> <p>Reflections on analytical challenges of science, technology and innovation policies to deal with poverty problems. A specific reference to Mexico <u>Rosalba Casas Guerrero</u></p> <p>Frugal innovations: Design and architectural perspective <u>Chaisung Lim</u>, Takahiro Fujimoto</p> <p>Transformative change for an inclusive society: Insights from social innovations and implications for innovation policy <u>Paul M. Weaver</u>, René Kemp, Tim Strasser, Julia Backhaus, Bonno Pel, Flor Avelino</p>	Jubilee 155
6I	<p>Research evaluation Chair: James Revill</p> <p>Assessing the impact of research and innovation: An analysis of evidence, metrics and narratives used in REF2014 business and management impact case studies <u>Claire Donovan</u></p> <p>Towards a novel method of research evaluation: Tracking proximity change in translational research projects. <u>Frédérique Lang</u>, Michael Hopkins, Jordi Molas-Gallart, Ismael Rafols, Puay Tang</p> <p>University research system transformation: connecting shifting governance to dynamics of citation distributions <u>Diana Hicks</u>, Jian Wang</p>	Fulton 103
6J	<p>Governance of innovation Chair: Caitriona McLeish</p> <p>Learning and innovation in developing economy clusters: Comparing private and non-profit intermediaries in cluster governance <u>Matias Ramirez</u>, Ian Clarke, Laurens Klerkx</p> <p>Innovation for the global commons: Multilateral collaboration and polycentric governance in a heteropolar world <u>Keith Smith</u></p> <p>Governing genetic resources to address global challenges: right intentions; wrong outcomes</p>	Jubilee G22

	<u>Catherine Rhodes</u>	
6K	<p>Infrastructure innovation Chair: Ralitsa Hiteva</p> <p>Too old to fail? Addressing transformation bottlenecks: Innovation in mature infrastructure sectors <u>Kat Lovell</u></p> <p>The politics of infrastructure pilot projects <u>Harold Rohracher</u>, Thomas Berker</p> <p>Strategies of the main actors related to the diffusion of smart houses in Japan <u>Kumiko Miyazaki</u>, Kentarou Nishida</p>	Jubilee G31

Friday 9 September, Session 7. 13.30-15.00

7A	<p>Dialogue session: Innovating policy: Transdisciplinary practice and the politics of co-construction in policy labs Organiser: Susanna Nascimento</p> <p>Panellists: Ann Light, Lucy Kimbell, Adrian Smith, Stephane Vincent, Thomas Prehn</p>	Jubilee 155
7B	<p>Research session: Innovation and the creative economy: Fusion, confusion and the policy challenge Organiser: Jonathan Sapsed Chair: Beatrice D'Ippolito Discussant: Christopher Tucci</p> <p>Creative digital IT skills fusion and its performance effects Jonathan Sapsed, Juan Mateos Garcia, Paul Nightingale</p> <p>Skills diversity and firm growth: The complementary role of arts and science skills Josh Siepel, Roberto Camerani, Monica Masucci</p> <p>Innovation policies for a creative economy: Challenging the dominance of science, technology and innovation (STI) 'research' Bruce Tether, Mickael Benaim</p>	Fulton 104
7C	<p>Research session: Intermediary actors in innovation and energy system transition (2) Organiser: Paula Kivimaa, Anna Bergek Commentator: Matias Ramirez</p> <p>Community-based intermediation for local embedding Jacob Barnes</p> <p>Finnish Environment Institute SYKE: Lessons from natural resource management to energy policy intermediation Eeva Primmer, Suvi Huttunen</p> <p>From a systematic review to a dynamic typology of intermediaries in transitions Paula Kivimaa, Wouter Boon, Sampsä Hyysalo, Laurens Klerkx</p>	Jubilee 116
7D	<p>Research session: The interaction between innovation, employment, inequality, and the environment contrasting evolutionary models on global challenges (2) Organiser: Tommaso Ciarli Chair: Giovanni Dosi Commentators: Andrea Roventini, Tim Foxon</p> <p>A history-friendly model of structural change and productivity growth: policies and divergence in comparative perspective Mario Cimoli</p> <p>Be patient enough to wait what you deserve: banks' time horizons, borrowing constraints and the evolution of industries Mauro Napoletano</p> <p>Structural changes and growth regimes André Lorentz</p>	Jubilee 144
7E	<p>Research session: Building blocks for a new innovation theory addressing social change Organiser: Johan Schot Commentator: Richard Nelson Chair: Arie Rip</p> <p>The need for an updated framework for innovation policy</p>	Jubilee 115

	<p><u>Luc Soete</u></p> <p>How did we grow apart? <u>Robin Williams</u></p> <p>Origins and development potential of MLP new innovation theory addressing social needs <u>Frank Geels</u> , Johan Schot</p>	
7F	<p>Regional and urban politics of innovation Chair: Cian O'Donovan</p> <p>Placed-based policies for innovation – A critical assessment of the S3 governance system and the Entrepreneurial discovery in Eastern Macedonia and Thrace Elisabetta Marinelli, <u>Mark Boden</u>, Patrice Dos Santos, Karel Haegeman</p> <p>Regional innovation systems and transformative change: The case of the chemicals industry in West Sweden <u>Hanna Martin</u></p> <p>An innovation system framework for system innovation policy: the case of Strategic Innovation Programs (SIPs) in Sweden <u>Lars Coenen</u>, Jerker Moodysson, Teis Hansen, Markus Grillitsch</p>	Fulton 107
7G	<p>University-industry relations Chair: Matteo Landoni</p> <p>The retreat of public research and its adverse consequences on knowledge, innovation and social welfare <u>Daniele Archibugi</u>, Andrea Filippetti</p> <p>Funding portfolio for academic research: From additionality of sources to production of science <u>Stefano Bianchini</u>, <u>Patrick Llerena</u></p> <p>The efficiency of Portuguese Technology Transfer Offices and the importance of university characteristics <u>Aurora A.C. Teixeira</u>, André Monteiro</p>	Fulton 202
7H	<p>Electric mobility Chair: Frank Southworth</p> <p>Full speed ahead: Challenges and implications of the UK strategy for autonomous vehicle deployment <u>Jean-Paul Skeete</u></p> <p>A policy review: Assessing the development of electric vehicles in China Michael Nauruschat, <u>Tong-Yaa Su</u></p> <p>The drivers of green driving: Analysing the intention to buy electric vehicles in European countries <u>Grazia Cecere</u>, Nicoletta Corrocher, Marco Guerzoni</p>	Fulton 103
7I	<p>Evaluating innovation impact Chair: Ismael Rafols</p> <p>The returns to scientific specialisation <u>Orion Penner</u>, Gaétan de Rassenfosse</p> <p>Mapping private R&D outputs: The contribution of top R&D companies to scientific literature Roberto Camerani, Daniele Rotolo, <u>Nicola Grassano</u></p> <p>Assessing the quality and impact of scientific research: A comparative analysis of the Global South versus the Global North <u>Manuel Godinho</u>, Hugo Confraria, Lili Wang</p>	Jubilee G31

7J	<p>Green entrepreneurship, innovation and skills Chair: Alberto Marzucchi</p> <p>Adaptive and transformative green growth: Two sides of the same coin? Davide Consoli, <u>Nicolo Barbieri</u></p> <p>Energy-efficient innovation and firm size: How different firms respond to different institutional pressures Luca Grilli, Paola Garrone, <u>Boris Mrkajic</u></p> <p>Green technology based firms (GTBF): Business as usual? <u>Pelin Demirel</u>, Giuliana Battisti</p>	Jubilee G22

Friday 9 September, Session 8. 15.30-17.00

8A	<p>Dialogue session: Political economy of finance in technology and innovation Organiser: Lucy Baker</p> <p>Panellists: Tim Foxon, Mariana Mazzucato, Gregor Semieniuk, Stephen Spratt</p>	Fulton 104
8B	<p>Dialogue Session: Science fiction and innovation: who is leading the dance? Organiser: Ed Steinmueller, Daniele Archibugi Chair: Saurabh Arora</p> <p>Panellists: Daniele Archibugi, Ralitsa Hiteva, Ed Steinmueller, Caroline Bassett</p>	Jubilee 116
8C	<p>Research session: Innovation and industrial performance: firm level analysis Organiser: Federico Tamagni Discussant: Angelo Secchi</p> <p>Innovation and the distribution of employment growth: evidence from Spanish micro-data <u>Flavio Calvino</u></p> <p>What do firms know? What do they produce? A new look at the relationship between patenting profiles and patterns of product diversification Giovanni Dosi, Marco Grazzi, <u>Daniele Moschella</u></p> <p>Persistence of innovation and patterns of firm growth <u>Dario Guarascioa</u>, Federico Tamagni</p>	Jubilee 155
8D	<p>Research session: Learning from failure: Decline, displacement and defeat of process technologies Organiser: Anne-Marie Coles Chair and commentator: S R Peters</p> <p>Development, stagnation and decline of process technologies: An observation of the history of two CHP application niches <u>Anton Sentic</u></p> <p>Range anxiety and electric vehicles: 'battery swapping' as an example of technological and business model experimentation <u>Ian Clarke</u></p> <p>Dynamics of technology decline: the case of pressed glass manufacturing in England <u>Athena Piterou, Anne-Marie Coles</u></p>	Fulton 202
8E	<p>Consumer interactions Chair: Sungjoo Lee</p> <p>The echoes of bandwagon through a complex system of innovation and development <u>João Basilio Pereima</u></p> <p>The Sharing Economy: A Case of "Reverse" Technology Assessment <u>Koen Frenken</u></p> <p>Adoption and diffusion of shared goods in consumers' coalitions. An agent-based simulation <u>Francesco Pasimeni, Tommaso Ciarli</u></p>	Fulton 203
8F	<p>Technology upgrading Chair: Raphael Kaplinsky</p> <p>Catching up with the international oil firms: a Penrosean view of upgrading and innovation barriers in china's refining industry <u>Damian Tobin</u></p>	Fulton 103

	Technology upgrading of middle-income economies: a new framework and evidence Slavo Radosevic, <u>Esin Yoruk</u>	
8G	<p>Public foresight and entrepreneurship Chair: Markku Wilenius</p> <p>Entrepreneurial ecosystems: The role of government alliances as drivers of innovation <u>Claudia Doblinger</u>, Kavita Suranaa, Laura Diaz Anadona</p> <p>Institutional intermediation and public procurement. A study of demand-innovation in the development of satellite telecommunications in Italy <u>Matteo Landoni</u></p> <p>Forward looking innovation policy: insights from foresight experts <u>Sofi Kurki</u></p>	Jubilee G22
8H	<p>Institutional collaborations and innovation Chair: Frédérique Lang</p> <p>Why do firms, universities and governmental bodies collaborate in multidisciplinary research programs? A mixed methods approach to evaluation. <u>Kevin P.F Broecks</u>, Frank J. van Rijnsoever</p> <p>Global knowledge spillovers through institutional collaborations Greg Morrison, <u>Massimo Riccaboni</u>, <u>Fabio Pammolli</u></p> <p>Time matters: exploring how public research organisations – industry interaction affect firms' innovation dynamics <u>José Miguel Natera</u>, Gabriela Dutrénit</p>	Jubilee 115
8I	<p>Mining/extractive industries session Chair: Lucy Baker</p> <p>Discovering new Public-Private Partnerships for productive and technological development in emerging mining countries Osvaldo Urzua, <u>Michiko Iizuka</u>, Fernando Vargas-Cuevas, Jakob Baumann, Alejandra Wood</p> <p>How to improve collaboration between industry, government, universities and the community to face industry challenges: the case of the Chilean Mining Programme 'Alta Ley' <u>Veronica Roa</u>, Julio González, Jorge Torres</p> <p>Innovation chain theory and the commercialisation of shale gas extraction technology in the US: historical and econometric evidence Isabel Bodas-Freitas, David Grover, <u>Kaboo PY Leung</u></p>	Fulton 107
8J	<p>Flirting with knowledge Chair: Josh Siepel</p> <p>It takes more than two to tango: Building up linkages between Non High-tech SMEs and Universities <u>George Tsekouras</u>, Andre de Campos</p> <p>Seduced into collaboration: A resource-based choice experiment to explain knowledge acquisition strategies of SMEs <u>Frank J. van Rijnsoever</u>, Sander N. Kempkes, Maryse Chappin</p> <p>Global mismatch in knowledge production <u>Patrick Gaule</u>, Ruchir Agarwal</p>	Jubilee 144