



**5<sup>TH</sup> EUROPEAN CONFERENCE ON CORPORATE R&D  
AND INNOVATION: CONCORDi 2015**  
**INDUSTRIAL RESEARCH AND INNOVATION: EVIDENCE FOR POLICY**

Organised by the Joint Research Centre's  
Institute for Prospective Technological Studies of the European Commission

Seville, 1-2 October 2015

Conference Venue: Escuela de Organización Industrial (EOI)  
Calle Leonardo da Vinci 12, 41092 Isla de la Cartuja, Seville (Spain)

**PROGRAMME**

**Thursday, 1 October 2015**

**OPENING**

**8h00 – 8h50 Registration**

**8h50 – 9h00 Opening:** John Bensted-Smith (Director, European Commission JRC- IPTS, ES)

**9h00 – 9h15 Welcome speech:** José Domínguez Abascal (Chief Technology Officer, ABENGOA, ES)

**9h15 – 9h45 Keynote speech:** *Evidence-based policy*, Ben Martin (Professor of Science and Technology Policy, Sussex University, UK)

**9h45 – 10h00 Open discussion**

**10h00-10h30 Coffee break and Poster session**

## **10h30 – 12h30 PLENARY SESSION I**

### **Theory, measurement and evidence on corporate R&D and innovation dynamics**

*Chair:* Reinhilde Veugelers (Katholieke Universiteit Leuven, BE)

- ➔ *Knowledge appropriability and economic policy* by Cristiano Antonelli (University of Torino, IT)
- ➔ *Evolution of EU corporate R&D: intensity gap, sector dynamics and firms demographics* by Pietro Moncada-Paternò-Castello (European Commission, ES)
- ➔ *The new EU 2020 innovation indicator: a step forward in measuring innovation output?* by Petra Andries (University Ghent, BE), Machteld Hoskens (Katholieke Universiteit Leuven, BE), Jürgen Janger (Austrian Institute for Economic Research, AT), Christian Rammer (Centre for European Economic Research, DE) and Torben Schubert (University of Lund, SE)
- ➔ *Innovation and employment in patenting firms: empirical evidence from Europe* by Vincent Van Roy (European Commission, IT), Daniel Vertesy (European Commission, IT) and Marco Vivarelli (Università Cattolica del Sacro Cuore, IT)
- ➔ *Innovation and standardization as drivers of companies' success in public procurement – An empirical analysis* by Knut Blind (Technische Universität Berlin, DE) and Anne Rainville

### **12h30-13h30 Lunch and Poster session**

## **13h30 – 15h30 PLENARY SESSION II**

### **Entrepreneurship, firms' performance and territorial innovation policies**

*Chair:* Mariagrazia Squicciarini (Organisation for Economic Co-operation and Development, FR)

- ➔ *Scientist entrepreneurship and the strategic management of places?* by David B. Audretsch (Indiana University, USA)
- ➔ *Data as basis for assumptions underlying policy measures with respect to high growth entrepreneurship* by Malin Brännback (Åbo Akademi University, FI)
- ➔ *Patent boxes design, patents location and local R&D* by Annette Alstadsæter (University of Oslo, NO), Salvador Barrios (European Commission, ES), Gaetan Nicodeme (European Commission, BE), Agnieszka Skonieczna (European Commission, BE) and Antonio Vezzani (European Commission, ES)

- *Innovation strategies and firm growth: new longitudinal evidence from Spanish firms* by Stefano Bianchini (University of Strasbourg, FR), Gabriele Pellegrino (WIPO and EPFL, CH) and Federico Tamagni (Scuola Superiore Sant'Anna, IT)
- *Current status and future prospects of evidence-based research and innovation policy: the case of Smart Specialisation* by Mafini Dosso (European Commission, ES) and Sjoerd Hardeman (CPB Netherlands Bureau for Economic Policy Analysis, NL)

### **15h30-16h00 Coffee break and Poster Session**

### **16h00 – 18h00 PLENARY SESSION III**

#### **Impacts of public policies and their additionality in supporting corporate R&D and innovation**

*Chair:* Bronwyn Hall (University of California, Berkeley, USA; and University of Maastricht, NL)

- *Research evaluation: who and how is learning from it?* by Susana Borrás (Copenhagen Business School, DK)
- *Public innovation policy and firm innovation strategies: public risk capital funding should be seed funding – but additionally is not there!* by Charles Edquist (Lund University, SE)
- *R&D subsidies and firms' cost of debt* by Sarah Demeulemeester and Hanna Hottenrott (Katholieke Universiteit Leuven, BE)
- *Additionality effects of public support programmes on cooperation for innovation: evidence from European manufacturing SMEs* by Dragana Radicic (Bournemouth University School of Management, UK), Geoffrey Pugh (Staffordshire University Business School, UK) and David Douglas (Leeds Beckett University Business School, UK)
- *Mix and match: evaluating the additionality of the R&D policy mix* by Daniel Neicu (Katholieke Universiteit Leuven, BE)

### **18h00 End of the first day**

### **20h30 COCKTAIL DINNER AND BEST PAPER AWARD CEREMONY**

Venue: Casa Palacio Condesa de Lebrija – Address: Calle Cuna, No. 8; 41003 Seville, Spain

**Friday, 2 October 2015**

**CLOSING**

**8h30-8h45 Welcome**

**Francisco J. Velasco Cabello** (Director, Escuela de Organización Industrial Andalucía, ES)

**8h45-8h50 Opening of the second day**

**John Bensted-Smith** (Director, European Commission JRC- IPTS, ES)

**8h50-9h20 Keynote speech: *Europe's twin deficits: excellence and Innovation in new sectors***

**Frédérique Sachwald** (Deputy head of the Transfer and Innovation Division, Ministry of Education, Higher Education and Research, FR)

**9h20 -10h15 Summary of the scientific output of the Conference**

**Cristiano Antonelli** (University of Torino, IT)

**David B. Audretsch** (Indiana University, USA)

**Susana Borrás** (Copenhagen Business School, DK)

**10h15 – 11h00 Scientific round table discussion**

**Chair: Pietro Moncada-Paternò-Castello** (European Commission, ES)

Panellists:

**Chairs of Plenary Sessions I-III and Members of the Scientific Committee**

**11h00-11h30 Coffee break**

## **11h30-13h00 Statements and round table discussion by Policy Stakeholders**

***Chair:* Alessandro Rainoldi** (European Commission – JRC, Unit J.2: Knowledge for Growth)

Panellists:

**Richard Deiss** (European Commission – Directorate-General for Research and Innovation, Unit A.4: Analysis and monitoring of national research policies)

**Markus Berndt** (European Investment Bank – Economics Department, Policy and Strategy Division)

**Isabel Grilo** (European Commission – Directorate-General for Economic and Financial Affairs, Unit B.2: Product Market Reforms)

**Kamil Kiljanski** (European Commission – Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs, Unit 01: Economic Analysis)

**Nicola Pesaresi** (European Commission – Directorate-General for Competition, Unit A.3: State Aid Strategy)

**Agnieszka Skonieczna** (European Commission – Directorate-General for Taxation and Customs, Unit D4: Economic analysis, Evaluation and Impact assessment support)

**Colin Wolfe** (European Commission – Directorate-General for Regional and Urban Policy, Unit DGA2.G1: Competence Centre for Smart and Sustainable growth)

## **13h00-13h30 Concluding remarks**

**Annette Borchsenius** (Ministry for Science and Innovation and Higher Education – DK, and Member of the JRC Board of Governors)

**John Bensted-Smith** (Director, European Commission JRC- IPTS, ES)

***13h30 End of the conference***

## **POSTERS**

<b>Author(s)</b>	<b>Affiliation(s)</b>	<b>Poster title</b>
Alex Coad, Mercedes Teruel and Agustí Segarra	Science and Technology Policy Research Unit (SPRU), Brighton, UK	Innovation and firm growth: Does firm age play a role?
Hugo Pinto and Tiago Santos Pereira	Centre for Social Studies University of Coimbra & Faculty of Economics, University of Algarve, PT	Resilience, persistence and innovation under the economic turmoil: Insights from the Portuguese CIS Data
Michele Cincera, Virginie Maghe and Anabela Santos	iCite – Solvay Brussels School of Economics and Management Université Libre de Bruxelles, BE	Impact of environmental factors on public R&D spending efficiency: Stochastic Frontier Analysis
Dina Pereira and João Leitão	Universidade da Beira Interior Faculdade de Ciências Sociais e Humanas Departamento de Gestão e Economia, PT	Absorptive capacity and firms’ generation of innovation: Revisiting Zahra and George’s Model
Antoine Schoen, Patricia Laurens and Lionel Villard	Université Paris-Est, Lisis, Ifris, FR	The value of internationalisation of industrial R&D
Maria Elena Bontempi, Luca Lambertini and Erica Medeossi	Department of Economics, University of Bologna, IT	Market power and duration of R&D investment
Petra Turkama	Center for Knowledge and Innovation Research (CKIR), Aalto University School of Business, FI	Discussion on the renewed dynamics of policy, science and industry in digitalization
Néstor Duch-Brown and Ibrahim Kholilul Rohman	European Commission JRC-IPTS, ES	Determinants of R&D, barriers to innovation and productivity in the ICT- producing sector: Evidence from Spain



## **Scientific Committee**

**Cristiano Antonelli** (University of Torino, IT)

**David B. Audretsch** (Indiana University, USA)

**Susana Borrás** (Copenhagen Business School, DK)

**Malin Brännback** (Åbo Akademi University, FI)

**Charles Edquist** (Lund University, SE)

**Ben Martin** (University of Sussex, UK)

**Pietro Moncada-Paternò-Castello** (European Commission, ES)

**Frédérique Sachwald** (Ministry of Education, Higher Education and Research, FR)

(Bios in the Annex)

## **Steering Committee** (European Commission, Joint Research Centre)

Mafini Dosso

Petros Gkotsis

Fernando Hervás

Pietro Moncada-Paternò-Castello (*Coordinator*)

Alessandro Rainoldi

Rosy Rueda

## **Contact**

CONCORDi 2015 website: <http://iri.jrc.ec.europa.eu/concord/2015/index.html>

Email: JRC-IPTS-IRI@ec.europa.eu

Information on previous editions of CONCORDi can be found here:

<http://iri.jrc.ec.europa.eu/concord.html>

## **ANNEX I: BIOS of the Scientific Committee Members**

### **CRISTIANO ANTONELLI**

Cristiano Antonelli holds the chair of Political Economy of the University of Torino. He is editor of the Economics of Innovation and New Technology journal, President of the International Center for Economic Research (ICER) and the Director of BRICK (Bureau of Research on Innovation, Complexity and Knowledge) of the Collegio Carlo Alberto. He is an Advisor to the Ufficio Studi of the Banca d'Italia. He is a member of the Board of Trustees of the Fondazione CRT. He has been the Director of the Department of Economics Cagnetti de Martiis. He has been a Rockefeller Fellow at the MIT (1982-1985) and a junior economist at the OECD (1978-1980). He has been a member of the Board of Telecom Italia (1998 and 1999), and of the Scientific Board of ENEA (from 1999 to 2003). He has held appointments at the Victoria University of Manchester, the University of Paris-Dauphine, the University of Nice, the Federal University of Rio de Janeiro and the University of Aix-en-Provence. He has been vice-president of the International Schumpeter Society in the years 2000-2004. The main results of his recent research are now available in 'Localized technological change. Towards the economics of complexity' (London, Routledge, 2008) as well as in his previous books 'The Microeconomics of Technological Systems' (Oxford University Press, Oxford, 2001), 'The Economics of Innovation, New Technologies and Structural Change' (Routledge, London, 2003) and 'The Path Dependent Complexity of Localized Technological Change: Ingredients, Governance and Processes' (Routledge, London, 2007 forthcoming).

### **DAVID AUDRETSCH**

David Audretsch is Professor and Ameritech Chair of Economic Development at Indiana University, where he also serves as Director of the Institute for Development Strategies. He also is an Honorary Professor of Industrial Economics and Entrepreneurship. He is member of the Advisory Board to a number of international research and policy institutes, including the Deutsches Institut fuer Wirtschaftsforschung (German Institute for Economic Analysis). He is presently Editor of the following Journals: Small Business Economics: An Entrepreneurship Journal; Foundations and Trends in Entrepreneurship (with Zoltan Acs); International Entrepreneurship and Management Journal; International Journal of Entrepreneurship Education.

### **SUSANA BORRÁS**

Susana Borrás is Professor of innovation and governance at Copenhagen Business School, Denmark. She is currently serving as the Head of the Department of Business and Politics at the same university. She conducts research on the interaction between governments and innovation. As a social scientist expert on public policy, two of her leading questions are, what governments can do to foster and to improve socio-technical innovation in the economy, and what makes some decisions regarding socio-technical and innovation change to be



democratically legitimate and others not. Her comparative analyses show the importance that socially and governmentally-defined institutions have on innovation performance and on democratic legitimacy of science and technology. Her main attention is in the European Union, both at the supra-national level as well as national and local (cluster) levels. In particular she studies the complex interactions between public and private realms, which have been recently called 'new modes of governance'.

### **MALIN BRÄNNBACK**

Malin Brännback is currently Dean of Faculty of Social Sciences and Economics at Åbo Akademi University (2015-2018) and Chaired Professor (international business) at Åbo Akademi University. Moreover, she does many additional activities as for example the supervision of an average of 7 under graduate theses per year, board member, ad hoc reviewer of manuscripts, chair and scientific committee member, among others. She has reached 196 publications up to now and she speaks five languages: Swedish, Finnish, English, French and German.

### **CHARLES EDQUIST**

Charles Edquist is the holder of the Ruben Rausing Chair in Innovation Research at CIRCLE, Lund University, Sweden, since February 2003 and has previously held a Chair at the University of Linköping. His publications include books and articles on innovation processes, innovation systems and innovation policy. Of these, the edited volumes "Systems of Innovation: Technologies, Institutions and Organizations" (1997) and "Small Country Innovation Systems: Globalization, Change and Policy in Asia and Europe" (2008; in 2012 also in Chinese) constitute contributions to the development of the so-called Systems of Innovation (SI) Approach. So does the chapter "Systems of Innovation: Perspectives and Challenges" (2005), in the Oxford Handbook of Innovation. He has made many contributions to the field of innovation policy and governance of innovation systems, the latest being articles in Research Policy (2012) and Industrial and Corporate Change (2011). The fact that he is among the 50 (or so) most cited innovation researchers (out of 6 – 7 000) in the world is testimony to the impact of his research. His most cited book is on public procurement for innovation. He was given the award for best paper for "Competence Building: A Systemic Approach to Innovation Policy" at the Atlanta Conference of Science & Innovation Policy, Georgia, USA, 26-28 September 2013.

### **BEN MARTIN**

Ben Martin, SPRU Chief editor of Research Policy journal, Professor of Science and Technology Policy Studies BA (first class honours) degree in Natural Sciences, University of Cambridge, and Kitchener Scholar (Churchill College, Cambridge); MSc ('The Structure and Organisation of Science and Technology'), University of Manchester. Professor Ben Martin studied physics as

an undergraduate at Cambridge and science policy as a postgraduate at Manchester. He has carried out research for 30 years in the field of science policy, serving as the Principal Investigator or Project Leader on over 50 research projects and commissioned studies. These have been mostly concerned with the development of techniques for generating systematic information to aid decision-making in relation to science, engineering and technology.

### **PIETRO MONCADA-PATERNÒ-CASTELLO**

Pietro Moncada-Paternò-Castello is *Senior Analyst* at the European Commission JRC-IPTS. He is *Facilitator* of the Cluster of sixteen JRC projects on "Innovation, Knowledge Transfer, Competitiveness and Employment". Before joining IPTS in 1995 he worked, as Founder and President, in the Agency for Natural Resources Energy and Technology (ANETEC, BE), in the MIT Energy Laboratory, Electric Utility Program (USA) and in the EC's Directorate General for Research and Technological Development (BE). Former responsibilities within the IPTS include, e.g.: Acting Head of Unit, "Knowledge for Growth"; Action Leader, "Economics of Industrial Research and Innovation"; Manager, "European Science and Technology Observatory". His scientific experience includes being author of scientific papers, member of scientific panels, member of editorial boards of scientific journals, speaker at conferences and lecturer at university courses. His research interests include economics of corporate R&D and innovation, firm dynamics, employment and competitiveness; management of technological change, and research & innovation policy.

### **FRÉDÉRIQUE SACHWALD**

Frédérique Sachwald is Deputy Head of the Transfer and Innovation Division at the French Ministry of Education, Higher education and Research. This division is in charge of various schemes to develop technology transfer and manages the French R&D tax credit scheme. Frédérique Sachwald is more specifically in charge of designing indicators and evaluation for the French research and innovation policy, which involves interministerial coordination. She is the French delegate to OECD Committee for Science and Technology Policy (CSTP). At the EU level, she is a member of the RISE (Research, Innovation and Science policy Expert) high level group of DG Research and Innovation. Formerly, Frédérique Sachwald has been Head of Economic studies at IFRI (French Institute for International Relations) a think tank based in Paris. She has published extensively in the fields of international economics and innovation studies. She has in particular studied the development of global production and innovation networks and their impact on trade, knowledge flows and local economies. She holds a PhD. in Economics from Ecole des Hautes Etudes en Sciences Sociales (Paris) and degrees from the Institut d'Etudes Politiques in Paris and Cambridge University (UK).