



6th EUROPEAN CONFERENCE ON
CORPORATE R&D AND INNOVATION

INNOVATION AND INDUSTRIAL DYNAMICS:
CHALLENGES FOR THE NEXT DECADE

SEVILLE
27 - 29 SEPTEMBER 2017



European
Commission

IN COOPERATION WITH
 **OECD**
BETTER POLICIES FOR BETTER LIVES



13:00 - 14:00 **Registration**

14:00 - 14:15 **Opening: Luis Delgado**

Acting Director, Directorate for Growth and Innovation -
Directorate-General Joint Research Centre of the European
Commission, ES

14:15 - 14:40 **Keynote speech: Innovation and industrial dynamics in
the digital transformation by DIRK PILAT**

Deputy Director - Directorate for Science, Technology and
Innovation of the OECD, FR

Including launch of the joint EC/JRC - OECD/STI report
World Corporate Top R&D Investors: Industrial Property
Strategies in the Digital Economy

Legend: names of people in **bold** are speakers

14:45 - 16:00

A1 (room 1)

Innovation persistence and firm survival

Chair: Heli Koski (Aalto University, FI)

Persistent heterogeneity of R&D intensities within sectors: Evidence and policy implications

A. Coad (Pontificia Universidad Católica del Perú, PE)

Competition and innovation persistence in France

B. Mulkey (Université de Montpellier, FR)

Good Times, Bad Times: Innovation and Survival over the Business Cycle

E. Cefis and O. Marsili (University of Bergamo, IT)

A2 (room 2)

Towards greener economies

Chair: Nicola Grassano (European Commission, ES)

Transition Towards a Green Economy in Europe: Innovation and Knowledge Integration in the Renewable Energy Sector

C. Conti, (Sapienza University, IT), **M. L. Mancusi** (Catholic University, IT), F. Sanna-Randaccio, R. Sestini, E. (Sapienza University, IT) and E. Verdolini (Fondazione Eni Enrico Mattei, IT)

How interdisciplinary is research in the bioeconomy? Analysing collaborative networks in an emerging field

L. Borge and S. Bröring (University of Bonn, DE)

The Carrot or the Stick? Directed Technical Change and Nonlinearities of Policy Effectiveness in Energy Innovation

L. Nesta (University Nice, FR), **E. Verdolini** (Fondazione Eni Enrico Mattei, IT) F. Vona (Université Sciences Po, FR)

A3 (room 3)

The industrial transformation

Chair: Mary O'Sullivan (Université de Genève, CH)

Industry 4.0 and digital innovation in manufacturing: state of the art and future prospects in the Italian mechanical engineering

L. Beltrametti, **A. Gasparre** and **L. Persico** (University of Genoa, IT)

Bringing it all back home? Back-shoring of manufacturing activities and the diffusion of Industry 4.0

B. Dachs (Austrian Institute of Technology, AT), S. Kinkel (University of Applied Sciences Karlsruhe, DE) and A. Jäger (Fraunhofer - Institute for Systems and Innovation Research, DE)

Manufacturing the future: is the manufacturing sector a driver of R&D, exports and productivity growth?

A. Vezzani (European Commission, JRC, ES) and A. Coad (Pontificia Universidad Católica del Perú, PE)

16:00 - 16:30 Coffee break & Poster Session**16:30 - 17:45****B1 (room 1)****Lessons from the crisis**

Chair: Giovanni Dosi (Scuola Superiore Sant'Anna, IT)

Exploring ways to estimate endogenous productivity

Ch. Guillard (Strasbourg University, FR), *Jordi Jaumandreu* (Boston University, USA) and *J. Olivari* (Inter-American Development Bank, USA)

The Compositional Nature of Productivity Slowdown

U. Cantner, H. Graf, E. Prytkova, and S. Vannuccini (Friedrich Schiller University Jena, DE)

Assessing Measurement Errors in the CDM

Research-Innovation-Productivity Relationships

J. Mairesse (Maastricht University, NL) and *S. Robin* (University of Paris 1 Panthéon-Sorbonne, FR)

B2 (room 2)**Global value chains**

Chair: Alexander Tübke (European Commission, ES)

Tourism global value chains and technological capabilities in the hotel industry

F.-R. Cáceres-Carrasco, J. Fernández-Serrano, and I. Romero (Universidad de Sevilla, ES)

How do trademarks affect the economic performance of global R&D leading firms ?

C. Castaldi, (Eindhoven University of Technology, NL) and M. Dosso (European Commission, ES)

The role of openness to external knowledge sources in innovation value chains. How do high- and low-tech firms differ in their behaviour?

Ph. Schulz (Technical University of Dresden, DE)

B3 (room 3)**Digital innovation dynamics**

Chair: Katarzyna Śledziewska (Warsaw University, PL)

Technological innovation as a disruptor: the case of the cinema value chain at the digital age

E. Salvador (École Supérieure des Sciences Commerciales d'Angers, FR), *J.-P. Simon* (JPS Public Policy Consulting, ES) and *P.-J. Benghozi* (Ecole Polytechnique, FR)

7 ways to boost digital innovation and entrepreneurship in Europe

D. Nepelski, M. Bogdanowicz, F. Biagi, P. Desruelle, G. De Prato, G. Gabison, G. Piroli, A. Pesole, N. Thumm and V. Van Roy (European Commission, ES)

Labor Services At Will Regulation of Dismissal and Investment in Industrial Robots

G. Presidente (Paris School of Economics, FR)

17:45 - 18:00 Short break

18:00 - 19:15

C1 (room 1)

Supporting R&D (1)

Chair: Raquel Ortega-Argilés (University of Birmingham, UK)

Do selected firms show higher performance? The case of Portugal's innovation incentive

A. Santos (Université Libre de Bruxelles, BE)

The effectiveness of regional, national and EU support for innovation in the UK and Spain

B. Becker (University of Warwick, UK), **S. Roper** and **J.H. Love** (Aston University, UK)

Structure and funding of business R&D: Descriptive evidence from micro-aggregated cross data

S. Appelt, **M. Bajgar**, **C. Criscuolo**, **F. Galindo-Rueda** (Organisation for Economic Co-operation and Development, FR)

C2 (room 2)

Intellectual property strategies (1)

Chair: Bruno van Pottelsberghe de la Potterie (Université Libre de Bruxelles, BE)

Fasten Your Seatbelts! Can The Patent Prosecution Highway Take Your Application Down The Fast Lane?

V. Behrens (Center for European Economic Research, DE), **D. Czarnitzk** (Katholieke Universiteit Leuven, BE) and **A. Toole** (United States Patent and Trademark Office, USA)

Protecting intellectual property: complementarities and trade-offs among different strategies

G. Capponi, **A. Martinelli**, and **A. Nuvolari** (Scuola Superiore Sant'Anna, IT)

Technology giants in patent wars: competition, litigations and innovation

H. Koski and **J. Luukkonen** (Aalto University, FI)

C3 (room 3)

ICT, analytics and innovation systems

Chair: Katarzyna Śledziewska (Warsaw University, PL)

R&D, ICT and productivity

P. Mohnen (United Nations University, NL), **M. Polder** and **G. van Leeuwen** (Statistics Netherlands, NL)

BIG Data - BIG Gains? Understanding the Link Between Big Data Analytics and Firm Performance

F. Rasel, **S. Viète** and **Th. Niebel** (Zentrum für Europäische Wirtschaftsforschung GmbH, DE)

International ICT Trade Dynamics 2004-2014: An Explorative Network Analysis

R. Righi, **S. Samoilii**, **M. López-Cobo** and **G. De Prato** (European Commission, ES)

19:15

End of the first day

Chair: **Luis Delgado**

Acting Director, Directorate for Growth and Innovation –
Directorate-General Joint Research Centre of the European
Commission, ES

09:00 - 09:15

Opening: PATRICIA REILLY

Cabinet of Commissioner Navracsics - European
Commission, BE

09:15 - 09:45

**Invited speech: *Innovation Roads Ahead* by UWE
CANTNER**

Friedrich Schiller University Jena, DE

09:45 - 09:55

Open discussion

Legend: names of people in **bold** are speakers

10:00 - 11:15

D1 (room 1)

Supporting R&D (2)

Chair: Marzenna A. Weresa (Warsaw School of Economics, PL)

The impact of R&D subsidies under different institutional frameworks

S. Bianchini, P. Llerena (University of Strasbourg, FR) and R. Martino (European Commission, BE)

Successfully obtaining public R&D grants: The importance of project and firm characteristics

M. Falk (Institute of Economic Research, AT) and **R. Svensson** (Research Institute of Industrial Economics, SE)

Impact of Eureka Projects on the performance of R&D SMEs

M. Cincera and **E. G. Fombasso** (Université Libre de Bruxelles, BE)

D2 (room 2)

Intellectual property strategies (2)

Chair: Pierre Mohnen (United Nations University, NL)

Spillover from the Haven: Cross-border Externalities of Patent Box Regimes within Multinational Firms

Th. Schwab and M. Todtenhaupt (University of Mannheim, DE)

How much does a patent cost? An analysis of technology specific R&D investments

P. Gkotsis and A. Vezzani (European Commission, ES)

Open Innovation Network: the case of healthcare firms of Nasdaq-100 index

M.A. Oliveira Luqueze, S. Kannebley Junior, and **G. S. Porto** (São Paulo University, BR)

D3 (room 3)

Investing in intangibles

Chair: Sandro Montresor (Kore University, IT)

The Impact of Investment in Knowledge-Based Capital on Productivity: Firm-Level Evidence from Ireland

M. Di Ubaldo and I. Siedschlag (Economic and Social Research Institute, IE)

Unlocking Investment in Intangible Assets

A. Thum-Thysen, **P. Voigt**, B. Bilbao-Osorio, Ch. Maier and D. Ognyanova (European Commission, BE)

Knowledge as an economic good: exhaustibility vs. appropriability?

C. Antonelli (Università di Torino, IT)

11:15 - 11:45 Coffee break & Poster Session**11:45 - 13:00****E1 (room 1)****Dynamics in aerospace and in pharma**

Chair: Antonio Vezzani (European Commission, ES)

Dynamic performance evaluation of aerospace industry actors in Belgium

P. Khoshnevis and P. Teirlinck (Katholieke Universiteit Leuven, BE)

Open Innovation in the Pharmaceutical Industry: a Study Using Social Network Analysis in Patents

F. G. Basso, S. Kannebley Júnior, G. S. Porto (São Paulo University, São Paulo, BR)

Challenges for the Development of Technology-Based Firms in Aeronautics

A. Reis, J. Mendonça (University of Lisbon, PT) and L. Urbina (Instituto Tecnológico de Aeronáutica, BR)

E2 (room 2)**Employment in innovation**

Chair: Bernhard Dachs (Austrian Institute of Technology, AT)

Innovation and employment dynamics in the UK

T. Ciarli, A. Marzucchi, E. Salgado, M. Savona (University of Sussex, UK)

Innovation and job creation in (high-growth) new firms

P. Santoleri (Scuola Superiore Sant'Anna, IT)

Gender diversity, R&D teams and patents: An application to Spanish firms

M. Teruel and A. Segarra-Blasco (Universitat Rovira i Virgili, ES)

E3 (room 3)**Simulation and innovation strategies**

Chair: Cristiano Antonelli (Università di Torino, IT)

Regional knowledge creation in a global industry: an empirical agent-based model of the Austrian semiconductor industry

M. Paier, M. Dünser and A. Unger (Austrian Institute of Technology, AT)

Innovation and Imitation Strategies in the Age of the Upgrade – An Agent-Based Simulation Model

P. F. Simmering and D.S. Hain (Aalborg University, DK)

Asymmetries, Passive Partial Ownership Holdings, and Product Innovation

A. Bayona, Á. L. López (Autonomous University of Barcelona, ES)

13:00 - 14:00 Lunch and Poster Session

14:00 - 15:15

F1 (room 1)

Industry-university cooperation

Chair: Daniele Archibugi (Consiglio Nazionale delle Ricerche, IT)

Does learning from prior collaboration help firms to overcome the 'two worlds' paradox in university-business collaboration?

N. Hewitt-Dundas (Queen's University, UK), **A. Gypalib** and **S. Roper** (University of Warwick, UK)

The division of labour between academia and industry for the generation of radical inventions

U. Rizzo, **N. Barbieri**, **L. Ramaciotti** (University of Ferrara, IT), and **D. Iannantuono** (University of Parma, IT)

Do Firms Publish? A Cross-Sectoral Analysis of Corporate Science

R. Camerani, **D. Rotolo** (University of Sussex, UK) and **N. Grassano** (European Commission, ES)

F2 (room 2)

Growth

Chair: Jacques Mairese (Maastricht University, NL)

Financing constraints and growth ambitions of innovative European firms

A. Santos and **M. Cincera** (Université Libre de Bruxelles, BE)

Endogenous growth with endogenous liquidity

Ch.-M. Chevalier (National Institute of Statistics and Economic Studies, FR)

Productivity, market selection and corporate growth: Comparative evidence from BRIC nations

G. Dosi (Scuola Superiore Sant'Anna, IT), **I. Luna** (University of Campinas, BR), **N. Mathew** (Scuola Superiore Sant'Anna, IT), **E. Youssef**, **H. Netto**, (University of Campinas, BR), **I. Savin**, and **X. Yu** (Karlsruhe Institute of Technology, DE)

F3 (room 3)

The regional dimension of innovation

Chair: Mafini Dosso (European Commission, ES)

Green technologies and regional specialisation: a European patent-based analysis of the intertwining of technological relatedness and Key-Enabling-Technologies

S. Montresor (Kore University, IT) and **F. Quatraro** (University of Turin, IT)

European disparities in regional health R&I performance

M. Plechero (Ca' Foscari University, IT), **C. Cozza** (Area Science Park Trieste, IT) and **R. Ortega-Argilés** (University of Birmingham, UK)

Are multinationals better at creating technical linkages with local firms and institutions?

C. Cozza, **G. Perani** (National Institute of Statistics, IT), **A. Zanfei** (University of Urbino, IT)

15:15 - 15:45 Coffee break & Poster Session

15:45 - 17:00

G1 (room 1)

Innovation and productivity

Chair: Sara Amoroso (European Commission, ES)

Innovation and productivity in Spanish service firms: the impact of the 2008 economic crisis

G.C. Alarcón (University of Seville, ES), R. Aguilar Caro (Pablo de Olavide University, ES), and J.L. Galán (University of Seville, ES)

Banking crises, R&D investments and slow recoveries

O. Peia (University College Dublin, IE)

Employment reallocation and productivity during the Great Recession: evidence from French manufacturing

G. Domini and D. Moschella (Scuola Superiore Sant'Anna, IT)

G2 (room 2)

Innovation and Internationalisation

Chair: Nola Hewitt-Dundas (Queen's University, UK)

Location determinants of foreign R&D investments in European regions

G. Damoli and D. Vértesy (European Commission, IT)

The value of human capital signals for Investment decision making under uncertainty - An analysis of foreign venture capital investments in Europe and sub-Saharan Africa

D. S. Hain, J. L. Christensen, and R. Jurowetzki (Aalborg University, DK)

Exports, R&D Activities, and Labour Productivity of SMEs

F. Figueira de Lemos (Uppsala University, SK), M. Falk (Austrian Institute of Economic Research, AT)

G3 (room 3)

Knowledge spillovers and collaborative innovation

Chair: Thomas Schwab (University of Mannheim, DE)

What determines international and inter-sectoral knowledge flows? The impact of absorptive capacity, technological distance and spillovers

F. Seliger (Eidgenössische Technische Hochschule Zürich, CH)

The cost-quantity relations and the diverse patterns of "learning by doing": Evidence from India

G. Dosi (Scuola Superiore Sant'Anna, IT), M. Grazzi (University of Bologna, IT) and N. Mathew (Scuola Superiore Sant'Anna, IT)

European Creative Synergy: Application for Energy Transition Efficiency

K. Maziz (Air Liquide, FR) J.-Ch. Guilhem (2B1st Consulting, FR), M. Julien (Air Liquide, FR) and J. Laforcade (MeetSYS, FR)

17:00 - 17:15 **Short break**

Chair: **Fernando Hervás**

(European Commission, JRC - ES)

17:15 - 17:45 **Invited speech: *Innovation-Driven Entrepreneurial Ecosystems: A New Agenda for Measurement and Policy* by SCOTT STERN**

(Massachusetts Institute of Technology, USA)

17:45 - 18:00 **Open discussion**

18:00 **End of the second day**

19:30 - 21:30 **Cocktail-Dinner and best paper award ceremony**

(in the ground floor of the same venue of the Conference)

09:00 - 09:10 **Welcome**

Antonio Pulido Gutiérrez (Presidente de la Fundación Cajazol, ES)

09:10 - 09:20 **Opening of the third day:**

Luis Delgado (Acting Director, Directorate for Growth and Innovation – Directorate-General Joint Research Centre of the European Commission, ES)

09:20 - 09:50 **Keynote speech: *Openness as driver for a 21st Century mission-oriented research policy***

by LUC SOETE (coordinator of Research, Innovation and Science Policy Experts – RISE - of the European Commission – UNU-MERIT, NL)

09:50 - 10:30 **Summary of the scientific output of the Conference by members of the Scientific Committee**

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

- **Industrial dynamics: Mariagrazia Squicciarini** (OECD, FR)
- **Competitiveness, growth and employment: Alex Coad** (Pontificia Universidad Católica del Perú, PE)

- **Internationalisation, globalisation and other territorial dimensions: Jackie Krafft** (Centre National de la Recherche Scientifique, FR)
- **R&D support, intellectual property and innovation strategies: Bronwyn H. Hall** (University of California at Berkeley, USA)

10:30 - 11:00 **Scientific round table & open discussion**

Panellists:

Members of the Scientific Committee

11:00 - 11:30 **Coffee break**

11:30 - 13:00 **Statements and round table discussion by Policy Stakeholders**

Chair: **Alessandro Rainoldi** (European Commission – Directorate-General Joint Research Centre, Unit B.3: Territorial Development, ES)

Panellists:

Román Arjona (European Commission - Directorate-General for Research and Innovation, Head of Unit A.4: Analysis and monitoring of national research policies, BE)

Marek Przeor (European Commission - Directorate-General for Regional and Urban Policy, Unit DDG.G1: Smart and Sustainable Growth, BE)

Debora Revoltella (European Investment Bank – Director of the Department of Economics, LUX)

Fernando Santiago (United Nations Industrial Development Organization - Department of Policy, Research and Statistics, AT).

Alessandra Colecchia (Directorate for Science, Technology and Innovation of the OECD, Head of Economic Analysis and Statistics Division, FR)

Slawomir Tokarski (European Commission - Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs – Director of Directorate F: Innovation and Advanced Manufacturing, BE)

13:00 - 13:30 **Closing session**

Chair: **Luis Delgado** (Acting Director, Directorate for Growth and Innovation – Directorate-General Joint Research Centre of the European Commission, ES)

Muriel Attané (Secretary General, European Association for Research and Technology Organisations – EARTO, BE)

Charlina Vitcheva (Deputy Director General - Directorate-General Joint Research Centre, European Commission, BE)

13:30

End of the conference

| TITLE | AUTHORS | AFFILIATION |
|--|---|---|
| Internationalization of R&D and Host-Country Patenting: Do International Research Teams Innovate Better? The Case of Germany and the USA | Daniel Sommer | University of Hohenheim, Stuttgart (DE) |
| Persistence of innovation in times of crisis: evidence from Italian firms (2005 - 2010) | Davide Antonioli, Sandro Montesor | University of Chieti-Pescara (IT) Kore University (IT) |
| Product Upgrading. The Role of Imported Machinery in Export Development | Judit Rariga | Central Bank of Hungary and Central European University (HU) |
| (When) Do R&D Subsidies Stimulate External Collaboration? The Role of Collaboration Experience | Gary Chapman ^a), Abel Lucenab (b) and Sergio Afcha (c) | De Montfort University (UK), University of the Balearic Islands (ES), University of Valencia (ES) |

| TITLE | AUTHORS | AFFILIATION |
|---|--|--|
| Improving access to finance: analysing the impact of policy measures supporting the emergence of high-growth innovative enterprises | Gonzalez Verdesoto E, Ianshyna A., Mitchell J., Stamenov B., Szkuta K., Giuseppina Testa. | European Commission (BE) |
| <i>Invited Posters</i> | | |
| Smart Specialisation, seizing new industrial opportunities | Antonio Vezzani (1), Marco Baccan(2), Alina Candu(2), Alessio Castelli(2), Mafini Dosso (1), Petros Gkotsis (1) | (1) European Commission, JRC (2) Finlombarda (IT) |
| EU R&D Scoreboard | Héctor Hernández | European Commission, JRC |
| R&D and Innovation across Global Value Chains: Trends and Policy Implications | Mafini Dosso, Lesley Potters and Alexander Tübke | European Commission, JRC |

| TITLE | AUTHORS | AFFILIATION |
|---|--|---|
| Sector dynamics, specialisation and R&D growth of top innovators in the global economy | Pietro Moncada-Paternò-Castello | European Commission, JRC |
| European R&D networks: A snapshot from the 7th EU Framework Programme | Sara Amoroso (3), Alex Coad (4), Nicola Grassano (3) | (3) European Commission, JRC (4) CENTRUM Católica Graduate Business School, Pontificia Universidad Católica del Perú |
| The spatial computable general equilibrium model of the European Commission focusing on EU regions | Andrea Conte | European Commission, JRC |
| The 2017 EU Survey on Industrial R&D Investment Trends | Lesley Potters, Nicola Grassano and Alexander Tübke | European Commission, JRC |
| Globalisation of private R&I in EU28: The case of Solar PV and Wind | Alessandro Fiorini , Aliko Georgakaki, Francesco Pasimeni | European Commission, JRC |
| The organisational and geographic diversity and innovation potential of EU-funded research projects | Daniel Nepelski, Annarosa Pesole and Vincent Van Roy | European Commission, JRC |



ANNEX I

Format

The Conference will be structured in four plenary sessions (with interventions by invited speakers and round-table panellists), three main parallel sessions for a total of 21 parallel slots with three paper (selected following the call for papers) to be presented in each of them (63 papers in total), and a poster session with 14 scientific works displayed. There are no paper and power point templates of the Conference; therefore authors can use their own templates. An active role in Conference is foreseen by keynote speakers, scientific committee members, chairs, speakers, panellists and other attendees of the Conference who are expected to *animate the debate during the entire Conference*.

- First day (Wednesday, 27 September 2017): A main plenary session (first day) opened by **Luis Delgado**, Acting Director of the Directorate for Growth and Innovation (Directorate-General Joint Research Centre of the European Commission, ES), **Dirk Pilat** (Deputy Director - Directorate for Science, Technology and Innovation of the OECD) will offer the first keynote speech and will also launch the joint EC/JRC -OECD/STI *report World Corporate Top R&D Investors: Industrial Property Strategies in the Digital Economy*.

There will be the first round of parallel sessions (with presenters selected following the call for papers). The presentations of each paper/Presenter (**maximum 15'**) will be followed by discussion (**maximum 10'**). In total there will be **strictly 20'-25' in total for each paper**.

- Second day (Thursday, 28 September 2017): Will be mostly dedicated to the presentation of papers selected following the call for papers organised in parallel sessions. The presentations of each paper/Presenter (**maximum 15'**) will be followed by an open discussion with the Conference attendees (**maximum 5'**), and a final reply (**maximum 5'**) by the presenter/author. In total there will be **strictly 20'-25' in total for each paper**.

The second day will be opened by **Patricia Reilly**, member of Commissioner Navracsics's Cabinet (European Commission, BE). In addition, interventions in plenary sessions will be offered by two invited speakers with a scientific profile in plenary sessions: **Uwe Cantner** (Friedrich Schiller University Jena, DE) and **Scott Stern** (Massachusetts Institute of Technology, USA); the former will intervene at the beginning of the morning and the latter in the afternoon.

- Third day (Friday, 29 September 2017): The final plenary session of the third day will offer the keynote presentation by Luc Soete (UNU-MERIT, NL; Coordinator of Research, Innovation & Science Policy Experts (RISE) of the European Commission). A wrap-up of the main results from the first day followed by a round table discussion will be offered by the **Members of the Scientific Committee**.

A round table discussion by policy stakeholders will follow. The panellists will be expected to briefly (in total, about **10'** for panellist) relate the main topics of and the evidence raised from the Conference (which will be summarised by members of the scientific committee Scientific Committee, prior to the policy-stakeholders' round-table) with the agenda of their respective services/institutions and to contribute to the policy relevant conclusions, particularly in relation to the central theme of CONCORDi 2017. A final discussion and possible Q&A will be considered as well.

A final intervention with overall conclusions & recommendations will end the Conference, with contributions by **Muriel Attané** (Secretary General, European Association for Research and Technology Organisations – EARTO, BE) and by the Deputy Director General of the JRC (European Commission, BE), **Charlina Vitcheva**, who will close the Conference.

- A Poster Session: Selected posters will be open along the two first days of the Conference. A parallel poster session with some posters displaying the results of the scientific work on subjects relevant to the Conference and authored by JRC scientists will be also offered.
- The Best Paper Award will be granted by the Scientific Committee, during the cocktail-dinner on the Thursday 28th of September.
- Publication: The most excellent papers presented at the Conference will be proposed for publication in a special issue of an international scientific journal, after following the journal's usual refereeing procedures.

Expected attendees: About 200 people from academia, policy-making, economic and policy analysts, corporations.

Venue of the Conference (27-29 September) and of the cocktail-dinner (28 September 2017):



Address: Plaza de San Francisco, 1 - 41004 Seville (Spain); entrance from Calle Chicarreros, 1 (perpendicular to Plaza de San Francisco).

Registration: : There are no registration fees requested to attend the Conference. Registered people are suggested to reach the conference venue one hour prior the starting time of the conference to be able to go pick up their badges and other material on time.

Hotel booking and other logistical information: Please, take into account that hotels are very busy in Seville in the week when the Conference will take place. We recommend you to book your hotel as soon as possible.

Information about hotels and transportation can be found here: <http://iri.jrc.ec.europa.eu/concord/2017/logistic-information.html>

Contact information:

CONCORDi 2017 website: <http://iri.jrc.ec.europa.eu/concord/2017/index.html>

Contact email: JRC-CONCORDi@ec.europa.eu

Information on previous editions of CONCORDi can be found here: <http://iri.jrc.ec.europa.eu/concord.html>



ANNEX II

Scientific Committee

- Román Arjona (European Commission, BE)
- Mária Bieliková (Slovak University of Technology, SK)
- Uwe Cantner (Friedrich Schiller University Jena, DE)
- Alex Coad (Pontificia Universidad Católica del Perú, PE)
- Giovanni Dosi (Scuola Superiore Sant'Anna, IT)
- Bronwyn H. Hall (University of California at Berkeley, USA)
- Jackie Krafft (Centre National de la Recherche Scientifique, FR)
- Pierre Mohnen (United Nations University, NL)
- Pietro Moncada-Paternò-Castello (European Commission, ES)
- Bruno van Pottelsberghe de la Potterie (Université Libre de Bruxelles, BE)
- Mariagrazia Squicciarini (OECD, FR)
- Scott Stern (Massachusetts Institute of Technology, USA)

Steering Committee

- Alessandra Collecchia (OECD)
- Marta Dominguez (European Commission, JRC)
- Nicola Grassano (European Commission, JRC)
- Fernando Hervás (European Commission, JRC)
- Pietro Moncada-Paternò-Castello (European Commission, JRC) - Coordinator
- Alessandro Rainoldi (European Commission, JRC)
- Alexander Tübke (European Commission, JRC)
- Antonio Vezzani (European Commission, JRC)



ANNEX III

Román Arjona



Román Arjona is Chief Economist at the Directorate-General for Research & Innovation of the European Commission. He previously served in the Spanish government as Secretary-General for Science, Technology and Innovation, and before joining the Commission he was adviser to the Spanish State Secretary and the Spanish Minister for Science and Technology. Mr Arjona worked for the European Investment Bank and the International Monetary Fund as well as for the OECD as an economist. He is a member of the World Economic Forum's High-Level Advisory Group of the Europe Inclusive Growth and Competitiveness Lab, and a former member of its Global Agenda Council on New Growth Models. Román holds a Masters' degree in European Economic Studies from the College of Europe in Bruges and a PhD in Economics from the European University Institute in Florence.

Mária Bieliková



Mária Bieliková is a full professor in program and information systems at the Slovak University of Technology in Bratislava (STU). She is a head of User Experience and Interaction Research Centre at the same university. She works in the field of the Adaptive and Semantic Web nearly 20 years from its very beginning world over. She serves in the editorial boards of several scientific journals and in programme committees of numerous international scientific conferences, which play in informatics field still principal role due to rapid development of the field. Prof. Bielikova currently acts as the dean of the Faculty of Informatics and Information Techno-logies STU. She is active in several professional bodies, in particular she is a senior member of the Institute of Electrical and Electronic Engineers, and of the Association for Computing Machinery (currently serving as a vice-chair of the Slovakia Chapter), registered as Chartered Engineer in Engineering Council UK, member of Technical Committee TC2: Software: Theory and Practice in International Federation for Data Processing where she represents Slovakia. For 13 years she served as a member of the executive board of the Slovak Society for Computer Science. She was a member of the Accreditation Commission established by the government of the Slovak Republic as its advisory body.

Uwe Cantner



Uwe Cantner is a German economist. Since 2000 he is Full Professor of Economics at the University of Jena, and heads the Chair of Economics/Microeconomics. Economics of Innovation, Evolutionary Economics, Industrial Economics, and Productivity and Efficiency Measurement are his major fields of research. Since 2011 he is also Professor of Economics (part-time) at the University of Southern Denmark. Since 15 October 2014 he became the new Vice-President for young researchers and diversity management at Friedrich Schiller University Jena and director of the Jena Graduate Academy. In November 2015 he became member of the Expert Commission on Research and Innovation (EFI) reporting to the German Federal Government. Cantner earned a Master of Arts in Economics from Wayne State University in 1984 and a Diplom from the University of Augsburg in 1985. After that he went for his Phd which he received in 1990 from the Ludwig Maximilians University of Munich with the thesis "Product and Process Innovation in International Trade". In 1996 he successfully habilitated at the University of Augsburg on the topic "Heterogeneity and Spillovers - Basic Elements of a Theory of Technological Change". He is the director of "The Jena Graduate School Human Behaviour in Social and Economic Change", and the spokesman of DFG Graduate College "The Economics of Innovative Change, offered jointly by Friedrich Schiller University Jena and Max Planck Institute of Economics Jena in Germany. He was president of International Joseph A. Schumpeter Society from 2012 to 2014. Since 2002 he is editor of Journal of Evolutionary Economics.

Alex Coad



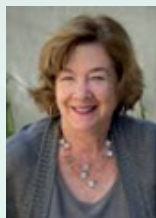
Alex Coad is Professor at CENTRUM-Católica Graduate Business School (Lima, Peru), and is interested in the areas of firm-level R&D investment, firm performance, entrepreneurship, strategy, and innovation policy. Alex has published over 60 articles in international peer-reviewed journals, such as *Economica*, *Journal of Business Venturing*, *Research Policy*, *Oxford Bulletin of Economics and Statistics*, *Industrial and Corporate Change*, and *Economics Letters*. According to google-scholar, Alex has over 4000 citations and an H-index of 32. Alex is Associate Editor at the journals 'Research Policy' (Financial Times Top 50 list of journals for Business Schools) and 'Industrial and Corporate Change' (Oxford University Press). Previously Alex obtained a PhD from Université Paris 1 and the Sant'Anna School, Pisa, Italy, and held academic positions at the Max Planck Institute (Jena, DE), Aalborg University (Denmark), and SPRU (Univ. Sussex, UK), before being an Economic Analyst at the European Commission (IRI group, JRC-IPTS, Sevilla).

Giovanni Dosi



Giovanni Dosi is professor of economics and director of the Institute of Economics at the Scuola Superiore Sant'Anna, and serves as director of the Industrial Policy and Intellectual Property Rights task forces at the Initiative for Policy Dialogue at Columbia University. Professor Dosi is a continental Europe editor of the journal *Industrial and Corporate Change*. He is included in the ISI Highly Cited Research list, denoting those who made fundamental contributions to the advancement of science and technology, and is a member of the Accademia Nazionale dei Lincei, the first Italian academy of sciences. His major research areas – where he is author and editor of several works – include economics of innovation and technological change, industrial economics, evolutionary theory, economic growth and development, organizational studies. A selection of his works has been published as "Innovation, Organization and Economic Dynamics", in 2000; and as "Economic Organization, Industrial Dynamics and Development, in, 2012.

Bronwyn H. Hall



Bronwyn Hall is Professor of Economics Emerita at the University of California at Berkeley, Visiting Professor at MPI-Munich, and a Research Associate at the NBER and IFS-London. She has published numerous articles on the economics and econometrics of technical change and innovation and is the editor of the *Handbook of the Economics of Innovation* in the Elsevier series. Her research includes comparative analysis of the U.S. and European patent systems, the use of patent citation data for the valuation of intangible (knowledge) assets, comparative firm level R&D investment and innovation studies, measuring the returns to R&D and innovation, and analysis of technology policies such as R&D subsidies and tax incentives. She has made substantial contributions to applied economic research via the creation of software for econometric estimation and of firm level datasets for the study of innovation, including the widely used NBER dataset for U.S. patents.

Jackie Krafft

Jackie Krafft is a French economist recognized among the Top 5% women economists (last 10 years, worldwide, Repec Jan. 2017). She is working in a multidisciplinary research institute regrouping economics, law, and management at the University of Nice Sophia Antipolis (CNRS-Gredeg). She holds a Phd from the University of Nice Sophia Antipolis, as well as an Habilitation from this University. She has taught classes in economics of competition, dynamics of innovative industries, as well as microeconomics and macroeconomics. She has published in a wide range of top academic journals, like *Research Policy*, *Industrial and Corporate Change*, *Economics of Innovation and New Technology*, *Journal of Evolutionary Economics*, *Structural Change and Economic Dynamics*.

Her main research topics are Knowledge and innovation (patents and intellectual property rights, R&D, university-industry relationship, organizational innovations); Firms and markets (industrial organization, competition and regulation, corporate governance); Industrial dynamics (complex networks of innovation, industrial demography, growth and localization of firms); European political economy (innovation, competition, globalization, growth).

Pierre Mohnen

Pierre Mohnen is Professor of microeconometrics of technical change at Maastricht University, Professorial Fellow at UNU-MERIT, Associated Fellow at CIRANO, Canada, Senior Research Associate at the Technology and Management for Development Centre at Oxford University, Associated Research Professor at ETH, Zürich, and a regular visiting professor at Renmin University of China. He has an MA in economics from the Catholic University of Louvain and a PhD in economics from New York University. His research deals mainly with the measurement, the determinants, the effects and the interrelationships of R&D, innovation, ICT, competition and productivity, and the effectiveness of innovation, environmental and social policies. He currently coordinates the economics of knowledge and innovation research theme at UNU-MERIT and sits on various scientific/advisory committees. He has done consulting work for various international organizations and national government departments.

Pietro Moncada-Paternò-Castello



Pietro Moncada-Paternò-Castello is Senior Analyst in Economics and Policy of Industrial Research and Innovation at the European Commission (EC), Joint Research Centre (JRC) – Directorate for Growth and Innovation (ES). Before joining JRC he worked, as Founder and President, in the Agency for Natural Resources Energy and Technology (ANETEC, B), 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 EC's JRC include: Acting Head of Unit, "Knowledge for Growth" and "Support to the European Research Area"; Action Leader, "Economics of Industrial Research and Innovation"; Manager, "European Science and Technology Observatory"; Co-ordinator, "Innovation, Diffusion and Growth" project. His research interests include: economics of corporate R&D and innovation, sectoral dynamics, innovation and competitiveness; management of technological change, and research & innovation policy. He has published over 80 scientific papers, scientific and technical reports, and policy briefs.

Dirk Pilat



Dirk Pilat, a Dutch national, is Deputy Director of the OECD Directorate for Science, Technology and Innovation. Dirk joined the OECD in February 1994 and has worked on many policy issues since then, including innovation, the role of digital technologies for economic growth, environmental innovation, labour markets, regulatory reform, global value chains, productivity and entrepreneurship, as well as health innovation. He is currently helping to coordinate the OECD's new Going Digital project, which aims to help policymakers better understand the digital transformation and develop recommendations for pro-active policies that will help drive growth and well-being. Dirk was responsible for the OECD's Committee for Scientific and Technological Policy from 2006 to January 2009, and for the Committee on Industry, Innovation and Entrepreneurship from February 2009 to December 2012.

Before joining the OECD, he was a researcher at the University of Groningen, where he also earned his PhD in Economics, working primarily on productivity and economic growth.

Bruno van Pottelsberghe



Bruno van Pottelsberghe is Full Professor at the Solvay Brussels School of Economics and Management (SBS-EM), Université libre de Bruxelles (ULB). He has been Dean of the faculty from April 2011 to mid-September 2017. He is owner of the Solvay S.A. Chair of Innovation and teaches economics and management of innovation and intellectual property. His research, which focuses on patent systems, the valuation of patents, and science and technology policies, has been published in several international scientific journals, including Research Policy, the Journal of Public Economics, the Review of Economics and Statistics, and Industrial and Corporate Change. He is chair of the ULB's Technology Transfer Committee since 2004, has been Chief Economist of the European Patent Office in Munich from 2005 to 2007, and worked at the OECD Directorate for Science, Technology and Industry (DSTI) in Paris from 1997 to 1999. Bruno van Pottelsberghe held Visiting Professor/Researcher positions at Columbia University (NYC, 1996), Stellenbosch University (Cape Town, 2003), and Hitotsubashi University (Tokyo, 2003).

Mariagrazia Squicciarini



Dr Mariagrazia Squicciarini is a Senior Economist – Head of Unit at the Organisation for Economic Co-operation and Development (OECD), within the Directorate for Science Technology and Innovation (STI). She is responsible for the OECD Working Party on Industry Analysis (WPIA), which develops indicators and quantitative analysis in the area of innovation and economic performance. Her work encompasses the changing determinants of growth and productivity; the economics of Intellectual Property Rights (IPR); knowledge based capital measurement and analysis; global value chains (GVCs); and jobs and skills in the digital transformation. She is responsible for the IPR-related data and analysis work carried out in the Directorate, and oversees the STI Microdata Lab initiative. She holds a Ph.D. in Economics from the University of Essex (UK) and has had previous appointments at VTT Technical Research Centre of Finland (FI), the University of Essex (UK), the EC-JRC "Institute for Prospective Technological Studies" (IPTS, ES), and the Italian National Research Centre for the Development of Advanced Materials (CNRSM, IT). She has published a number of scientific papers and reports, and acts as a reviewer for many international peer-review journals.

Luc Soete



Luc Soete (15 September 1950, Brussels) is honorary Professor of International Economic Relations at Maastricht University in The Netherlands. Until September 1st 2016, he was Rector Magnificus of Maastricht University. Before taking on the Rectorship in 2012, he was Director of the United Nations University research and training institute: UNU-MERIT located in Maastricht, and Dean of the Maastricht Graduate School of Governance at Maastricht University. Over the last 30 years, Luc Soete has contributed as (co-)author and (co-)editor to some 11 books, 50 refereed articles and some 100 chapters in books. In 2007, he received the Belgian reward *Commandeur in de Kroonorde*, in 2010 a Doctor Honoris Causa from the University of Ghent, in 2013 from the University of Liege and in 2016 from the University of Sussex. He is a fellow of the Royal Dutch Academy of Science and a member of the supervisory board of the Technical University of Delft. He has been chairman of the Research, Innovation and Science Expert (RISE) group for Commissioner Carlos Moedas.

Scott Stern



Scott Stern is the David Sarnoff Professor of Management at the MIT Sloan School of Management. Stern explores how innovation and entrepreneurship differ from more traditional economic activities, and the consequences of these differences for strategy and policy. His research in the economics of innovation and entrepreneurship focuses on entrepreneurial strategy, innovation-driven entrepreneurial ecosystems, and innovation policy and management. Recent studies include the impact of clusters on entrepreneurship, the role of institutions in shaping the accumulation of scientific and technical knowledge, and the drivers and consequences of entrepreneurial strategy. Stern has worked widely with practitioners in bridging the gap between academic research and the practice of innovation and entrepreneurship. This includes advising start-ups and other growth firms in the area of entrepreneurial strategy, as well as working with governments and other stakeholders on policy issues related to competitiveness and regional performance. In recent years, Stern has developed a popular new MIT Sloan elective, *Entrepreneurial Strategy*, co-founded the MIT Regional Entrepreneurship Acceleration Program, advised the development of the Social Progress Index, and served as the lead MIT investigator on the US Cluster Mapping Project. Stern started his career at MIT, where he taught from 1995 to 2001. Before returning to MIT in 2009, he held positions as a Professor at the Kellogg School of Management and as a Non-Resident Senior Fellow at the Brookings Institution. Stern is the director and cofounder of the Innovation Policy Working Group at the National Bureau of Economic Research. In 2005, he was awarded the Kauffman Prize Medal for Distinguished Research in Entrepreneurship. Stern holds a BA in economics from New York University and a PhD in economics from Stanford University.



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