

## Path - breaking innovation. Understanding, managing and providing support for continuous radical change in science and innovation. Milan, Italy, 27 - 29 June 2012.

Wednesday June 27th, 2012

14:00-14:30 Registration

14:30-15:00 Welcome address

**Cristina Masella** (Director of the Department of Management, Economics and Industrial Engineering, Politecnico di Milano)

**Massimo Colombo** (Dean, PhD School in Management, Economics and Industrial Engineering, Politecnico di Milano)

15:00-16:00 Keynote speech: *Open themes and new directions in the studies of science* (Sala Consiglio)

**Paula Stephan** (Georgia State University & NBER)

Room: Sala Consiglio

16:00-16:30 Coffee break

16:30-18:00 Session 1

**Parallel session 1a: Path-breaking Innovation**

*Chair:* Chiara Franzoni (Politecnico di Milano)

Room: Sala Consiglio

*How ready-to-use therapeutic food shapes a new technological regime to treat child malnutrition*

**Jose Guimón** (Universidad Autónoma de Madrid) and Pablo Guimón (Universidad Autónoma de Madrid)

*Discussant:* Inés Andújar (IIES Francisco de Vitoria)

*Validating Patent Indicators that Assess Technological Radicalness: The Case of Biotechnology*

**Sam Arts** (Katholieke Universiteit Leuven), Francesco Appio (Sant'Anna) and Bart Van Looy (Katholieke Universiteit Leuven)

*Discussant:* Jose Guimón (Universidad Autónoma de Madrid)

*The connection between researchers' international mobility and their scientific networks of collaboration: a conceptual and empirical approach*

**Inés Andújar** (IIES Francisco de Vitoria), Carolina Cañibano (Universidad Politécnica de Valencia) and María Isabel Encinar (Universidad Autónoma de Madrid)

*Discussant:* Giuseppe Scellato (Politecnico di Torino)

**Parallel session 1b: Path-breaking Science**

*Chair:* Evila Piva (Politecnico di Milano)

Room: Aula 01

*Collaboration and creativity: A composition of weak and strong ties is better*

**Jian Wang** (iFQ & Georgia Tech)

*Discussant:* Cristina Rossi-Lamastra (Politecnico di Milano)

*Breaking different paths: Towards a comparative analysis of conditions for scientific innovations*

**Grit Laudel** (University of Twente) and Jochen Gläser (Technical University Berlin)

*Discussant:* Luca Grilli (Politecnico di Milano)

*How scientists diversify their research interests: Empirical evidence from a new methodology*

Chiara Franzoni (Politecnico di Milano) and **Cristina Rossi-Lamastra** (Politecnico di Milano)

*Discussant:* Grit Laudel (University of Twente)

## **Path - breaking innovation. Understanding, managing and providing support for continuous radical change in science and innovation. Milan, Italy, 27 - 29 June 2012.**

**Thursday June 28th, 2012**

**9:00-9:30**      **Welcome coffee**

**9:30-11:00**      **Session 2**

**Parallel session 2a: *Path-breaking Innovation***

*Chair:* John P. Walsh (Georgia Institute of Technology)

*Room:* Sala Consiglio

*In Search of a Prescription for Technological Breakthroughs in Drug Discovery*

**Antonio Dalla Malva** (Katholieke Universiteit Leuven)

*Discussant:* Evila Piva (Politecnico di Milano)

*Real options and adoption of general purpose technologies*

**Andrea Mantovi** (Università di Parma)

*Discussant:* Antonio Dalla Malva (Katholieke Universiteit Leuven)

*Solving the Puzzle, Doing my Job or Helping the Firm?: Motivation and Innovative Performance for R&D and non-R&D Inventors*

**Yeonji No** (Georgia Institute of Technology)

*Discussant:* Andrea Mantovi (Università di Parma)

**Parallel session 2b: *Path-breaking Science & University-Industry collaboration***

*Chair:* Massimo Colombo (Politecnico di Milano)

*Room:* Aula 01

*Determinants of Non-Local University-Industry Collaborations: An Analysis Based on Chinese Patent Data*

**Wei Hong** (Tsinghua University)

*Discussant:* Sotaro Shibayama (University of Tokyo)

*Universities and new firm creation: the role of scientific and industrial specialization*

Andrea Bonaccorsi (Università di Pisa), Massimo G. Colombo (Politecnico di Milano), **Massimiliano Guerini** (Università di Pisa) and Cristina Rossi Lamastra (Politecnico di Milano)

*Discussant:* Wei Hong (Tsinghua University)

*Academic Entrepreneurship and Disruption of Academic Cooperation: Math-analysis and Survey-based Empirical Analysis*

**Sotaro Shibayama** (University of Tokyo)

*Discussant:* Massimiliano Guerini (Università di Pisa)

**11:00-11:30**      **Coffee break**

**11:30-12:30**      **Keynote speech: *New directions of research in path-breaking innovation***

**Gerard George** (Imperial College)

*Room:* Sala Consiglio

**12:30-14:00**      **Light lunch**

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**Thursday June 28th, 2012**

**14:00-16:00** Plenary session: *Globalization of science: researchers' mobility and the organization of research teams*

*Chair:* Cristina Rossi-Lamastra (Politecnico di Milano)

*Room:* Sala Consiglio

**Invited speakers:**

*Patterns of international mobility of researchers: evidence from the GlobSci survey*

**Giuseppe Scellato** (Politecnico di Torino)

*The role of young scholars in scientific research: A comparison of the US and Japan*

**John P. Walsh** (Georgia Institute of Technology)

*International collaborations in science, why and how: evidence from scientists' survey in the US and Japan*

**Sadao Nagaoka** (Hitotsubashi University)

**16:00-16:30** Coffee break

**16:30-18:00** Session 3

**Parallel Session 3a: Path-breaking Innovation**

*Chair:* Massimiliano Guerini (Università di Pisa)

*Room:* Sala Consiglio

*Accelerating diffusion, facilitating disruption: How a medical innovation could be a disruptive one?*

**Mohammad Hajhashem** (Manchester Business School)

*Discussant:* Federico Frattini (Politecnico di Milano)

*Process view of licensing as a new market entry mode: The case of leading Italian pharmaceutical and biotech companies*

**Uros Sikimic** (Politecnico di Milano), Federico Frattini (Politecnico di Milano) and Vittorio Chiesa (Politecnico di Milano)

*Discussant:* Chiara Franzoni (Politecnico di Milano)

*Cross-border M&As of biotech firms affiliated with internationalized universities*

**Mattia Cattaneo** (Università di Bergamo), Michele Meoli (Università di Bergamo) and Silvio Vismara (Università di Bergamo)

*Discussant:* Annalisa Croce (Politecnico di Milano)

**Parallel session 3b: Path-breaking Science**

*Chair:* Sadao Nagaoka (Hitotsubashi University)

*Room:* Aula 01

*Radical innovations for lung cancer driven by converging genomics, genetics and proteomics*

**Mario Coccia** (CERIS, CNR)

*Discussant:* Masatsura Igami (National Institute of Science and Technology Policy)

*Nanotechnologies in Pacific Asia: scientific production of People's Republic of China, Japan and South Korea*

**Ugo Finardi** (Università di Torino & CERIS-CNR)

*Discussant:* Mario Coccia (CERIS, CNR)

*Determinant of research project expenditure: evidence from Hitotsubashi-NISTEP-Georgia Tech scientists' survey*

**Masatsura Igami** (National Institute of Science and Technology Policy), Sadao Nagaoka (Hitotsubashi University) and John P. Walsh (Georgia Institute of Technology)

*Discussant:* Ugo Finardi (Università di Torino & CERIS-CNR)

**20:00**

**Conference dinner**

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**Friday June 29th, 2012**

**9:00-9:15**      **Registration & welcome coffee**

**9:15-9:30**      **Welcome address**  
**Gianluca Spina** (Dean, MIP Business School, Politecnico di Milano)

**9:30-11:30**      **Roundtable: *Organizing for radical innovation. Can companies learn from the organization of science?***

(Hosted by MIP Business School, with the support of Teva Italia)  
*Chair:* Massimo G. Colombo (Politecnico di Milano)

***Invited Speakers:***

*How economics shapes science: the organizational challenges behind scientific research*  
**Paula Stephan** (Georgia State University & NBER)

*Organizing massive-scale scientific projects. The ITER Project: The Way to New Nuclear Energy*  
**Mario Merola** (ITER Project)

*What can companies learn from the organization of science*  
**Gerard George** (Imperial College)

**11:30-11:45**      **Farewell Coffee**