

# Evidence-based Policy Advice and Innovation Policy beyond Horizon 2020

**Euro-CASE Annual Conference  
Brussels, December 3, 2014**



**Euro-CASE**



## DEAR DISTINGUISHED GUESTS OF EURO-CASE'S ANNUAL CONFERENCE,

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Innovation is one of the top priorities for the European Union as well as for Euro-CASE because research, technology and innovation are vital to secure Europe's economic competitiveness and address our grand societal challenges. The EU Europe 2020 strategy, its flagship initiative Innovation Union and Horizon 2020 highlight the importance of innovation for Europe and Euro-CASE is committed to contribute to make Europe the most innovative region in the world. The outstanding work of the Euro-CASE Innovation Platform and the Energy Platform reflect our desire to enter a new phase in independent evidence-based policy advice to European Institutions and national governments. As independent organisations academies provide eminently suitable spaces for academic and political interaction and discourse.

Euro-CASE expanded its activities last year: More than ever we provide independent science- and technology-based policy advice in order to support policy makers in reaching more evidence based political decisions. Thus we are very happy to count with the presence of the presidents of our sister organizations the Federation of All European Academies (ALLEA), the European Academies Science Advisory Council (EASAC) and the Federation of European Academies of Medicine (FEAM) to discuss modern approaches of evidence-based policy advice dialogues with the European Commission, together with our partners from the Directorate-General Research and Innovation, the Joint Research Center and the Chief Scientific Advisor to the President of the European Commission.

In this spirit, I wish us all a successful conference including fruitful discussions and long-lasting contacts.

**Reinhard F. Hüttel**, President of Euro-CASE and President of acatech, Germany  
[www.euro-case.org](http://www.euro-case.org)



## WELCOME TO THE EURO-CASE ANNUAL CONFERENCE

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Given the importance of innovation for Europe's economic welfare Euro-CASE decided to implement an Innovation Platform that took up its work at the beginning of 2012 under the leadership of acatech (DE) and IVA (SE). Since then the platform has convened six times over a two and a half year period and has discussed important topics of European Innovation Policy such as Innovation Procurement, Public-Private Partnerships, Financing Innovation, Transforming Manufacturing, Boosting innovation in Europe and Changing Industry Structures. For the Euro-CASE Annual Conference the Innovation Platform published a Summary Paper of its work on European Innovation Policy.

The Euro-CASE Innovation Platform consists of experts from science, engineering and business nominated by the academies. Euro-CASE is committed to contribute to European Innovation Policy with all its expertise and this year's Annual Conference allows us to jointly debate topics as important as of European Innovation policy perspectives from Euro-CASE and the EIT, the international Dimension of Innovation Policies and EU Innovation Policy beyond Horizon 2020. We are especially pleased to welcome Esko Aho for his guest speech.

On behalf of the Euro-CASE Innovation Platform I wish you a stimulating and exciting conference.

[www.euro-case.org/index.php/activites/item/321-innovation.html](http://www.euro-case.org/index.php/activites/item/321-innovation.html)

**Björn O. Nilsson**, President of the Royal Swedish Academy of Engineering Sciences (IVA), Chair of the Euro-CASE Innovation Platform

# EURO-CASE ANNUAL CONFERENCE ON INNOVATION POLICY

**Date:** 3 December 2014, 10:00–17:00

**Venue:** Academy Palace, Rue Ducale 1, 1000 Brussels, Auditoire Albert II. Nearest metro station: Trône / Nearest bus stop: Ducale

**Moderator:** Georges Haour, Professor of Technology and Innovation Management, IMD Lausanne

**Registration open:** <http://tinyurl.com/m49b7kh>

10:00	<b>Registration</b>
10:15	<b>Welcome: Jean-Louis Migeot</b> , President Académie Royale des Sciences, des Lettres et des Beaux-Arts, Belgium
	<b>Introduction: Reinhard F. Hüttel</b> , Chairman of Euro-CASE
10:30	<b>“The Future of Innovation in Europe as seen by Euro-CASE” by Björn Nilsson</b> , President of the Royal Swedish Academy of Engineering Sciences (IVA), Sweden, Chair of the Euro-CASE Innovation Platform Questions and answers
10:45	<b>Panel discussion: “Evidence-based policy advice to the EU – novel approaches of dialogue formats”</b> <b>Reinhard F. Hüttel</b> , Chairman Euro-CASE <b>Dermot Kelleher</b> , President Federation of European Academies of Medicine, FEAM <b>Jos van der Meer</b> , President European Academies Science Advisory Council, EASAC <b>Günter Stock</b> , President of the Federation of All European Academies, ALLEA <b>Wolfgang Burtscher</b> , Deputy Director General, Directorate-General Research and Innovation <b>Anne Glover</b> , Principal Science Adviser, European Commission <b>Vladimir Sucha</b> , Director-General Joint Research Center, JRC Open discussion with the audience
12:20	<b>“The future of Innovation in Europe as seen by RISE” by Luc Soete</b> , Chair High Level Group on Research, Innovation and Science Policy Experts (RISE), Fellow of the Royal Dutch Academy of Science (KNAW)
	<b>“The future of Innovation in Europe as seen by EIT” by Bruno Revellin-Falcoz</b> , Member of the Governing Board and Executive Committee, European Institute of Innovation and Technology (EIT), Honorary President and responsible for International Affairs of the National Academy of Technologies of France (NATF) Open discussion with the audience
12:45	<b>Lunch break</b>
13:45	<b>Guest Speech: “The Future of Innovation in Europe” by Esko Aho</b> , Executive Chairman of the Board at East Office of Finnish Industries, former Prime Minister of Finland, former board member of the Technology Academy Finland
14:15	<b>International Dimension of Innovation Policies</b> US perspective: “Company Growth Through Innovation with Universities” by <b>Randall S. Wright</b> , MIT Industrial Liaison Program Asian perspective: “National Innovation Systems in the Greater China Region” by <b>Otto C. C. Lin</b> , Hong Kong Academy of Engineering Sciences Open discussion with the audience
15:15	<b>Panel discussion with introductory statements: “EU Innovation Policy beyond Horizon 2020”</b> <b>Peter Dröll</b> , Acting Director, Directorate-General Research and Innovation <b>Jakob Edler</b> , Director at the MBS Manchester Institute of Innovation Research (MIIoR, UK); Fellow of the National Academy of Science and Engineering, acatech <b>Karl Klingsheim</b> , Professor of Innovation and Entrepreneurship at the Norwegian University of Science and Technology (NTNU), CEO of NTNU Technology Transfer AS, Fellow of the Norwegian Academy of Technological Sciences (NTVA) <b>Marisa Matias</b> , MEP, Rapporteur of the Strategic Innovation Agenda of the EIT <b>Björn O. Nilsson</b> , President of the Royal Swedish Academy of Engineering Sciences (IVA), Sweden, Chair of the Euro-CASE Innovation Platform Open discussion with the audience
17:00	<b>Closing remarks: Reinhard Hüttel, Chairman of Euro-CASE</b>

## SPEAKERS

### REINHARD F. HÜTTL



Reinhard F. Hüttl is Chairman of Euro-CASE since May 2013 and President of acatech - National Academy of Science and Engineering in Germany. He is Scientific Executive Director and Chairman of the Board at the Helmholtz Centre Potsdam – GFZ German Research Centre for Geosciences. He was member of the German Government's Ethics Commission on the Safe and Secure Provision of Energy which was established in March 2011. He is currently Chairman of the Board of Trustees of the German Science Academies' project "Energy Systems of the Future". He is member of a number of national and international Academies, received an honorary doctorate from the University of Vienna in 2004 and was conferred with the Cross of Merit, First Class of the Federal Republic of Germany in July 2008.

### BJÖRN O. NILSSON



Professor Björn O. Nilsson is President of the Royal Swedish Academy of Engineering Sciences (IVA) and he has a doctorate degree in biochemistry from the Royal Institute of Technology (KTH) in Stockholm, where he today holds an adjunct position. Prof. Nilsson has served in a number of management roles in the biotechnology and pharmaceutical industry, mainly within the Pharmacia group of companies. These leading roles include serving as CEO and President of Karo Bio, a leading public Swedish biotechnology company, and as Senior Vice President of Biovitrum and Biacore, respectively. Prof. Nilsson was also Chairman of the Swedish Biotechnology Industry Organization (SwedenBIO) for a four years term. He serves as a Board member of a number of companies. Prof. Nilsson is also a member of several governmental and non-governmental committees in areas such as science, education and innovation.

### JEAN-LOUIS MIGEOT



Jean-Louis Migeot is the current President of the Académie Royale de Belgique (ARB) and Chairman of the Belgian Academies Council for the Applications of Science. He is a Civil Engineer, with an MBA and a PhD degree in Acoustics. He is also a Professor at the Université Libre de Bruxelles. Migeot is the co-founder and CEO of the high-tech company Free Field Technologies, which has subsidiaries in France, Japan, the US and Russia, and which has been awarded several prizes including the Best Export Company Award in 2006. Their world leading acoustic simulation software developed by Free Field Technologies is used by over 400 large industrial companies to help them design less noisy and quieter products. Migeot is also a Board member of several public institutions and companies.

### GEORGES HAOUR



Georges Haour is Professor of innovation management at IMD, Switzerland. He is also associated with an incubator of new ventures, in Cambridge, UK, and acts as an adviser to companies on technology-intensive ventures and innovation/R&D management. Born and raised in Lyon, France, he obtained a PhD in Chemistry & Materials Science from the University of Toronto, Canada. Haour has eight granted patents, some of them are the basis of licensing agreements. He has written four

books; the most recent is "From science to business" (see: [www.sciencetobusiness.ch](http://www.sciencetobusiness.ch)) and is currently working on a new book: "Innovation in China".

### DERMOT KELLEHER



Dermot Kelleher is President of the European Academies of Medicine (FEAM) and Fellow of the Irish and UK Academies of Medical Sciences. He is Vice-President (Health) and Dean of the Faculty of Medicine at Imperial College London. From 2004 until 2012 he was Head of the School of Medicine and Vice-Provost for Medical Affairs at Trinity College, Dublin. His research has been focused on the immune response to many of the leading causes of infectious disease worldwide. He is the author of approximately 200 publications and 14 patents. In collaboration with Professor Hugh Brady, he obtained collaborative grant funding to establish the Dublin Molecular Medicine Centre that has now become Molecular Medicine Ireland. He also held the inaugural directorship of the Institute of Molecular Medicine. Professor Kelleher is a founding member of Opsona Therapeutics and has served as a member of the Board of the Health Research Board Ireland, the European Medical Research Council and the Wellcome Trust Clinical Interest Group. He also serves on several National Bodies in the Health sector and on the board of ICON plc.

### JOS VAN DER MEER



Jos WM van der Meer is emeritus Professor of Medicine at Radboud University Nijmegen, The Netherlands. Between 1992 and 2012 he was head of the Department of internal medicine at the Radboud University Medical Centre. His major areas of expertise are host defence against infection, autoinflammation, immunodeficiency and antimicrobial therapy. He is a member of the Royal Netherlands Academy of Arts and Sciences (KNAW), for which he served as a vice-president from 2005 to 2011. He is a member of Academia Europaea and he is the current president of EASAC, the European Academies Science Advisory Council. He is a honorary Fellow of the Royal College of Physicians in London and in Edinburgh and a fellow of the Infectious Diseases Society of America. He is a member of the Dutch National Board for Research Integrity LOWI. He received a number of prizes and awards, such as the Gold Hijmans van den Bergh medal. He was awarded knighthood in the order of the Netherlands Lion in 2003. He published more than 875 scientific papers in peer-reviewed journals.

### GÜNTER STOCK



1983 Professor of Vegetative Physiology in Heidelberg, 1983–2005 Schering AG, from 1989 to 2005 as board member, responsible for research and development. Since January 2006 he has served as President of the Berlin-Brandenburg Academy of Sciences and Humanities. In January 2008 he took office as President of the Union of the German Academies of Sciences and Humanities. He is senator of the German Academy of Sciences Leopoldina, senator and member of the Joint Committee of the Deutsche Forschungsgemeinschaft (DFG), member of the German Academy of Science and Engineering (acatech), and member of the Forschungsunion Wirtschaft–Wissenschaft of the Federal Ministry for Education and Research. In April 2012 he was elected President of All European Academies (ALLEA). Photo: Ekko von Schwichow

## WOLFGANG BURTSCHER



Wolfgang Burtcher is Deputy Director-General of the European Commission's Directorate-General for Research and Innovation, responsible for the policy and management of the Research Framework Programme. In this capacity he was involved in the design and elaboration of Horizon 2020, the new Framework Programme for research and innovation, and is now closely associated to its implementation. An Austrian national, Mr. Burtcher holds a doctorate in law and also has a qualification from the Institut Européen des Hautes Etudes Internationales in Nice.

## ANNE GLOVER



Professor Anne Glover joined the European Commission as Chief Scientific Adviser to the President in January 2012. In this role she advises the President on any aspect of science and technology and promotes the European culture of science to a wide audience. Prior to her current appointment she was Chief Scientific Adviser for Scotland from 2006-2011. Professor Glover currently holds a Personal Chair of Molecular and Cell Biology at the University of Aberdeen as well as several honorary doctoral degrees and is an elected Fellow of the Royal Society of Edinburgh, the Society of Biology, the Royal Society of Arts and the American Academy of Microbiology. Professor Glover was recognised in March 2008 as a Woman of Outstanding Achievement in the UK and was awarded a CBE for services to Environmental Science in the Queen's New Year's Honours list 2009.

## VLADIMIR ŠUCHA



Vladimir Šucha is Director-General of the Joint Research Centre of the European Commission. He was Deputy Director-General of the JRC between 2012 and 2013. Prior to that, he spent 6 years in the position of Director for Culture and Media in the Directorate-General for Education and Culture of the European Commission. Before joining the European Commission, he held various positions in the area of European and international affairs, including e.g. Director of the Slovak Research and Development Agency, Principal Advisor for European affairs to the Minister of Education of the Slovak Republic and as Research, Education and Culture Counselor for the Slovak Representation to the EU in Brussels. In parallel, he has followed a long-term academic and research career, being a full professor in Slovakia and visiting professor/scientist at different academic institutions in many countries. He published more than 100 scientific papers in peer reviewed journals.

## BRUNO REVELLIN-FALCOZ



Bruno Revellin-Falcoz joined the Dassault Aviation Design Department in 1966 and focused his activities on new technologies and advanced military and civil programs. As Senior Vice President for Research, Design and Engineering in 1982 he was in charge of all the technical programs (the family of business jets Falcon, Mirage 2000 and Rafale fighters). He left Dassault Aviation in 2008, after 45 years in the company. He received the Great Prize of "Ingenieurs de France" in 2008. He is

member of the Air and Space Academy of France, the scientific advisory board of the Ministry of Defence and the scientific advisory board of OPECST. In 2011/2012 he was President of NATF and currently acts as its Honorary President and Delegate for Foreign Affairs and is a member of the Executive Committee of the governing board of the European Institute of Innovation and Technologies (EIT).

## ESKO AHO



Executive Chairman of the Board at East Office of Finnish Industries. Former Prime Minister of Finland. Aho has enjoyed a long and distinguished career serving society, business and politics, holding the post of Prime Minister of Finland from 1991 to 1995. After the 2000 presidential campaign, he joined Harvard University as a lecturer, and following his retirement from the Finnish Parliament, he worked as a private consultant. Aho was President of the Finnish Innovation Fund SITRA, from 2004 until 2008, chaired the EU Independent Expert Group on R&D and Innovation in 2005-2006, and served as an Executive Vice President of Corporate Relations & Responsibility and Member of the Leadership Team at Nokia Corporation from November 2008 until August 2012. Aho was elected foreign member of the Royal Swedish Academy of Engineering Sciences in 2006.

## RANDALL S. WRIGHT



As a Senior Liaison Officer for MIT, Wright leads teams of researchers and faculty members in providing on-going emerging technology intelligence and strategic advice for the world's leading technology companies. Wright is an invited lecturer at Northeastern University's Executive M.B.A. He is a sought-after speaker, delivering speeches focused on emerging technology opportunities and challenges, and counter-intuitive insights in executive panels and discussions. Prior to becoming a Senior Liaison Officer for MIT, Wright was a Marketing Manager for Pfizer, Inc., a major U.S. pharmaceuticals company. He was also a Strategic Planning Analyst for Pennzoil Company--a Fortune 500 oil and natural resources company.

## OTTO C.C. LIN



Otto Lin worked for Du Pont (USA) in 1967 engaging in research and commercialization of polymers and coatings. Later he returned to Taiwan and in 1988 was appointed President of the Industrial Technology Research Institute (ITRI) that spearheaded many high-tech programs transforming Taiwan to a technology intensive economy. In 1997, he joined Hong Kong University of Science and Technology as Vice President for R&D. He promoted science collaborations between Hong Kong and China in the establishment of the Guangzhou Nansha IT Park. Presently he is senior advisor to the President, Hong Kong Polytechnic University. He writes and lectures extensively in the Asia Pacific region on innovation, entrepreneurship, and soft power for innovation competitiveness. He is a foreign member of IVA, Fellow of the HKAES and recipient of 1993 Technology Award of the Third World Academy of Sciences (TWSNO).

## PETER DRÖLL



Peter Dröll is in charge of Innovation Union and European Research Area in the European Commission's Research and Innovation Department. This Directorate is about creating the conditions for excellent research and innovation throughout Europe.

Peter is a lawyer by training with a doctorate degree in German constitutional law and European law. Before joining the European Commission in 1991, Peter worked as a lawyer in Germany.

## JAKOB EDLER



Jakob Edler is Professor of Innovation Policy and Strategy and Executive Director of the Manchester Institute of Innovation Research, MBS, University of Manchester. His main interest lies in the justification, conceptualisation and effects of science, technology and innovation policy and governance. In recent years he

has published on demand oriented policy approaches, including public procurement of innovation, the governance of change in socio-technical systems and the governance of responsible research and innovation, the development and application of evaluation concepts in science and innovation policy and the internationalisation of research and innovation activities. He has advised OECD, the EU, WIPO, numerous national ministries and agencies. Jakob Edler has a PhD in Political Science from the University of Mannheim (1999). Before joining University of Manchester in 2007, he was Head of Department in the Fraunhofer ISI, Karlsruhe.

## KARL KLINGSHEIM



Karl Klingsheim is Professor of innovation and entrepreneurship at the Norwegian University of Science and Technology (NTNU) and CEO of NTNU Technology Transfer AS, Norway. He has extensive hands-on experience as an investor, as a director, as an executive, as an entrepreneur, and as a researcher. He has been instrumental in the formation, fundraising, and business development for multiple start-up companies. Dr.

Klingsheim has served as an executive with Telenor and as a Director for several companies and incubators. He is a board member of the Norwegian Academy of Technological Sciences and member of the Euro-CASE Innovation Platform.

## LUC SOETE



Professor Luc Soete obtained a PhD in economics from the University of Sussex. In 1986 he was appointed professor of International Economic Relations at the Maastricht University School of Business and Economics. Two years later he established the Maastricht Economic Research Institute on Innovation and Technology, which quickly grew into a leading research institute in the economic analysis of technological development and innovation. He was appointed dean of the Maastricht Graduate School of Governance in 2010. Soete is a member of the Royal Netherlands Academy of Arts and Sciences, the Dutch Advisory Council for Science and Technology Policy and Chairman of the High Level Group "Research, Innovation and Science Policy Experts" at the European Commission. Over the past 30 years, Soete has authored, co-authored, edited and co-edited more than 11 books, and over 150 articles and book chapters. Soete is the Rector Magnificus of Maastricht University as of 1 September 2012.

## MARISA MATIAS



Marisa Matias holds a PhD in sociology from the School of Economics, University of Coimbra, Portugal, and is a Member of the European Parliament of the United Left Group (GUE/NGL). In the years 2011 and 2012, she was the Parliament's rapporteur on the Common Strategic Framework for Research and Innovation. The report established the basis for what should be the proposal for the Horizon 2020 Program on the European financing of research and innovation for the period 2014-2020. In preparation of Horizon 2020, she was also appointed as rapporteur for the Strategic Innovation Agenda of the EIT.

## ABOUT EURO-CASE

The European Council of Academies of Applied Sciences, Technologies and Engineering (Euro-CASE) is an independent non-profit organization of National Academies of Engineering, Applied sciences and Technologies from 21 European countries. Euro-CASE acts as a permanent forum for exchange and consultation between European Institutions, Industry and Research. Through its Member Academies, Euro-CASE has access to top expertise of around 6.000 Fellows from science, research, engineering and business and provides impartial, independent and balanced evidence-based policy advice to European Institutions and national Governments.

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## EURO-CASE MEMBER ACADEMIES

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