

3 July 2017

Conference "Research & Innovation – shaping our future"

Brussels

## SPEAKERS



### CARLOS MOEDAS

Carlos Moedas was born in Beja (Portugal) in 1970. He graduated in Civil Engineering from the Higher Technical Institute (IST) in 1993 and completed the final year of studies at the École Nationale des Ponts et Chaussées in Paris (France). He worked in engineering for the Suez-Lyonnaise des Eaux group in France until 1998.

He obtained an MBA from Harvard Business School (USA) in 2000, after which he returned to Europe to work in mergers and acquisitions at investment bank Goldman Sachs in London (UK).

He returned to Portugal in 2004 as Managing Director of Aguirre Newman and member of the Executive Board of Aguirre Newman in Spain. In 2008, he founded his own investment company, Crimson Investment management.

In 2011, he's elected for the National Parliament and was called for the government to Secretary of State to the Prime Minister of Portugal in charge of the Portuguese Adjustment Programme.

In 2014, he became Member of the European Commission, as Commissioner in charge of Research, Science and Innovation.



### PASCAL LAMY

From September 2005 to August 2013, Pascal Lamy served for two consecutive terms as General Director- of the World Trade Organization (WTO). A committed European and member of the French Socialist party, he was Chief of Staff for the President of the European Commission, Jacques Delors from 1985 to 1994. He then joined Credit Lyonnais as CEO until 1999, before returning to Brussels as European Trade Commissioner until 2004. Mr. Lamy holds degrees from HEC School of Management, the Institut d'Études Politiques (IEP) and the Ecole Nationale d'Administration (ENA).

Pascal Lamy was appointed in 2015 interministerial delegate for the preparation of the French candidature for the Universal Exhibition 2025, and in 2016 President of the French Committee of the Pacific Economic Cooperation Council (PECC). He shares his other activities between the Jacques Delors Institute (President emeritus), the presidency of the World Committee on Tourism Ethics, the vice-presidency of the Foundation for European Progressive Studies (FEPS), as well as various mandates or missions related to global, European or French affairs, including the Thomson Reuters Founders Share Company and Transparency International. He is also affiliate Professor at HEC and author of various books and reports on global governance, Europe and international trade.



### MAILIS REPS

Mailis Reps is the Minister of Education and Research of the Republic of Estonia since 23 November 2016. She has held this position also in 2005 - 2007 and in 2002 - 2003. She is a member of the Estonian Centre Party. Mailis Reps was a member of the 10, 11, 12, 13th Parliament of Estonia and has served as the Vice-Chairman of the Estonian Centre Party faction and as the Vice-Chairman of the Cultural Affairs Committee.

Mailis Reps has a Bachelor's degree in Social Sciences from Kalamazoo College in Michigan, USA and in Law from Nord University. She has a Master's degree in Law from Central European University and a Master's degree in European Public Relations from Maastricht University. Mailis Reps is currently obtaining a PhD in European Law from Uppsala University.



### SOLEDAD CABEZÓN RUIZ

Soledad Cabezón Ruiz is a socialist member of the European Parliament, member of the Committee of Petitions, member of the Committee of Environment, Public Health and Food Security and substitute member of the Committee of Industry, Research and Energy.

She holds a degree in Medicine, a Master's degree in Health Law, and worked as Cardiologist at Virgen del Rocío University Hospital in Seville, where she practiced until her election as a Member of the Congress in the 2008 elections. Between 2003 and 2011 she was mayor of Albaida del Aljarafe, and Federal Secretary for Equality between 2008 and 2012.



### JEAN-PIERRE CLAMADIEU

CEO of Solvay and member of the Board of Directors since May 2012. He joined Solvay in September 2011 as member of the Executive Committee, immediately after Solvay acquired Rhodia. Before that, he was Rhodia's Chief Executive Officer since October 2003 and since March 2008 also Chairman of the Board of Directors.

Before joining the chemical industry, he graduated from Ecole Nationale Supérieure des Mines de Paris and had a nine-year career at the French Civil Service, including as advisor to the Minister of Labor. He is member of the Board of Directors of Faurecia and Axa. He is President of the European Chemical Industry Council (CEFIC), member of the Board of Directors of the International Chemical Industry Council (ICCA), as well as member of the Executive Committee of the World Business Council for Sustainable Development (WBCSD).

Jean-Pierre Clamadieu was Chairman of the Sustainable Development Commission of MEDEF between 2007 and 2014.

### SERGE HAROCHE



Serge Haroche, an atomic physicist Professor Emeritus at Collège de France, was born in 1944. He received the 2012 Nobel Prize in Physics for « ground-breaking experimental methods that enable measuring and manipulation of individual quantum systems”. He graduated from Ecole Normale Supérieure in 1971 and became full Professor at Paris VI University in 1975, a position he held until 2001 when he was appointed Professor at Collège de France. Between 2012 and 2015, he has been President of this institution. Haroche’ main research activities have been in quantum optics and quantum information science. By manipulating atoms and photons in cavities he has demonstrated elementary steps of quantum information procedures such as the generation of atom-atom and atom-photon entanglement and the operation of quantum logic gates involving photons and atoms as “quantum bits”. He has also demonstrated methods to count photons without destroying them and studied non-classical states of light called “Schrödinger cat states”, which he used to explore the quantum to classical boundary.

### ROBERT DIJKGRAAF



Director and Leon Levy Professor, Institute for Advanced Study, Princeton, New Jersey Robert Dijkgraaf, Director and Leon Levy Professor of the Institute for Advanced Study since 2012, is a mathematical physicist who has made significant contributions to string theory and the advancement of science education. He is President of the InterAcademy Partnership, a past President of the Royal Netherlands Academy of Arts and Sciences, and a distinguished public policy adviser and advocate for science and the arts. For his contributions to science, he has received the Spinoza Prize, the highest scientific award in the Netherlands, and has been named a Knight of the Order of the Netherlands Lion. He is a member of the American Academy of Arts and Sciences and the American Philosophical Society. He is also a trained artist, writer, and popular lecturer.

### CARLO RATTI



An architect and engineer by training, Carlo Ratti practices in Italy and teaches at the Massachusetts Institute of Technology, where he directs the Senseable City Lab. He graduated from the Politecnico di Torino and the École Nationale des Ponts et Chaussées in Paris, and later earned his MPhil and PhD at the University of Cambridge, UK. His work has been exhibited worldwide at venues such as the Venice Biennale, the Design Museum Barcelona, the Science Museum in London, GAFTA in San Francisco and The Museum of Modern Art in New York. His Digital Water Pavilion at the 2008 World Expo was hailed by Time Magazine as one of the 'Best Inventions of the Year'.



### ROBERT-JAN SMITS

Robert-Jan Smits is Director-General of DG Research and Innovation (RTD) at the European Commission. In this capacity he is responsible for defining and implementing the EU policy and programmes in the field of research and innovation (average annual budget 8 billion euro). Mr Smits was one of the main architects and negotiators of Horizon 2020, the 80 billion EU programme for science and innovation (2014-2020).

He has received several recognitions and awards for his contribution to European Science and innovation, including an honorary degree from Edinburgh University, a life-time achievements award from EuroScience and the 2016 Academy Medal from the Royal Netherlands Academy of Arts and Sciences.

Mr Smits was born in The Netherlands. He has degrees from Utrecht University in The Netherlands, Institut Universitaire d'Hautes Etudes Internationales in Switzerland and Fletcher School of Law & Diplomacy in the United States of America.



### VLADIMÍR ŠUCHA

Vladimír Šucha is Director-General of the Joint Research Centre of the European Commission, its in-house scientific service. 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. Between 2005 and 2006, he was director of the Slovak Research and Development Agency, national body responsible for funding research. He was principal advisor for European affairs to the minister of education of the Slovak Republic (2004-2005). He worked at the Slovak Representation to the EU in Brussels as research, education and culture counselor (2000-2004). 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.





### **KHALIL ROUHANA**

Khalil Rouhana is the Deputy Director-General in DG CONNECT (Communications Networks, Content & Technology) since 1/12/2016. His responsibilities include the policies for digital economy and society and notably for research, innovation and industrial strategies, digital solution for societal challenges and governments as well as cybersecurity. Before that he was Director for "Digital Industry" in DG CONNECT supporting the competitiveness of core digital sectors in Europe and the digitisation of all industrial sectors of the economy.



### **LOWRI EVANS**

Lowri Evans was appointed Director-General of DG Internal Market, Industry, Entrepreneurship and SMEs on 1 September 2015. She has been Director-General in DG Maritime Affairs and Fisheries from 2010 to 2015. Prior to that, she has worked in several policy areas in the European Commission notably Competition and Employment. She started her professional career in audit and accountancy with Deloitte.



### **MARC LEMAÎTRE**

Marc Lemaître studied at Université Libre de Bruxelles (ULB) and Bruges (College of Europe) and holds a Master in European Economics. He brings 20 years of profound experience in European Affairs, both in the European Commission and in the diplomatic service of Luxembourg. Between 1996 and 2006, he worked in the Permanent Representation of Luxembourg to the European Union, dealing with budgetary, trade and general affairs issues. He joined the Commission in 2007 as Head of the private office of Regional Policy Commissioner, Danuta Hübner, and then her successor, Paweł Samecki. Between 2010 and 2013, he led the private office of Budget Commissioner Janusz Lewandowski. Since 2013, he has managed, as Director, the Office for Administration and Payment of individual entitlements (PMO). Since 1 September 2016 he is Director-General for Regional and Urban Policy.

**MICHELA MAGAS**

Michela Magas is an innovation catalyst who bridges the worlds of science and art, design and technology, and academic research and industry, with a track record of over 20 years of innovation. She co-founded Stomatolite Design Innovation Lab in 2000, developing futures concepts for a series of international clients including Apple, Nike and Nokia. She is the founder of Music Tech Fest, a global innovation ecosystem of over 5000 creative innovators and researchers, and was Innovation Director of #MusicBricks – a European Innovation Action that placed exclusive tools developed by top European music tech research centres into the hands of creative innovators to take them to market. She is innovation advisor to both the European Commission and the G7 leaders. In 2016 she was presented with an Innovation Luminary Award for Creative Innovation and in 2017 she was awarded European Woman Innovator of the Year.

**BERTRAND PICCARD**

Originating from a family of explorers, Bertrand Piccard is the initiator and visionary behind Solar Impulse, the very first airplane capable of flying perpetually without fuel. In 2016 he and André Borschberg, taking turns piloting the single-seater aircraft, succeeded in flying around the world powered only by the sun, showing how clean technologies can do more than we ever thought possible. His ambition is to leverage a pioneering spirit for a useful contribution to the cause of renewable energies, the next stage of which includes the establishment of the World Alliance for Efficient Solutions. As Chairman of the Alliance, he has committed to identify 1,000 profitable and efficient solutions to help companies and government at national and local levels to reach their environmental targets and adopt more ambitious policies. These will be brought to COP 24 in 2018 to contribute to solving climate change.

**KINGA STANISLAWSKA**

Kinga is Managing Partner and Founder of Experior Venture Fund, responsible for Fund's operations, including deal sourcing, value creation and mentoring in investments, supervision of exits from investments, obtaining debt financing for portfolio companies as well as for relations with the Fund's private investors and KFK. Kinga has been working in investments and finance for the past 17 years. Her experience encompasses direct equity investments as well as investment banking and investment supervision. Today she sits on the boards of XTRF Management Systems, Tourmedica, iTaxi, Luna Lang, WeGirls, Custom (Tylko), Perfect Dashboard and Cosmose. Kinga is the Vice President of the Polish PE Funds Association (PSIK). She is member of the European Innovation Council - High Level Group. She is active in supporting women led companies – Kinga is a mentor in Vital Voices and Foundation for Women Entrepreneurship.



### SARAH GLÜCK

Sarah Glück holds a double degree in sociology and political science from the Technical University Darmstadt. She has experience as a young researcher in India, Vietnam, Turkey and Germany, currently working at her PhD in the research group EnergyCultures at the Zeppelin University in Friedrichshafen. Sarah is involved in higher education and research policy development on the European level from a researcher's perspective, but she is also an activist for the right of higher education in the German Civil Society Organisation "Etudes Sans Frontières – Studies Without Borders", as a former president. She is co-author of the 2016 Bratislava Declaration for Young Researchers.



### SHANE BERGIN

Dr Shane Bergin is a physicist and an assistant professor in science education at UCD's School of Education, Ireland. Shane's research focuses on teaching and learning in physics. In recent years, Shane has been awarded several fellowships to support his research. These include Marie Curie Actions and support through Science Foundation Ireland's SIRG programme.

Shane is the founder of City of Physics – a campaign to spark physics conversations around Dublin based on physics posters, art and projections dotted around the city. This follows DARTofPhysics – a similar campaign on Dublin's DART train – in 2013. Shane received awards for public engagement in science from the European Commission and the American Association for the Advancement of Science (AAAS) for this work. In 2015, Shane began a collaboration with the National Concert Hall – blending STEM subjects with music for primary school audiences.

In 2015, Shane received a Provost's Teaching Award (whilst working at Trinity College Dublin) for his work on student-centred learning in the undergraduate physics programme. Shane was listed as one of Ireland's '40 under 40' by the Irish Independent in September 2016.



### KALTRINA NUREDINI

Kaltrina Nuredini is a third-year Ph.D candidate and researcher in ZBW (Leibniz Information Centre for Economics). She finished bachelor and master studies in computer science. Her particular interests are in Altmetrics. Altmetrics are new indicators accumulated online from Social Media tools to help evaluate research products such as specifically - scholarly articles.

Since the academic literature nowadays is flooding, readers have difficulties to find out what to read. Therefore, her research focus is to observe which Altmetric sources help scientists especially economists filter relevant journal articles for reading and publishing.

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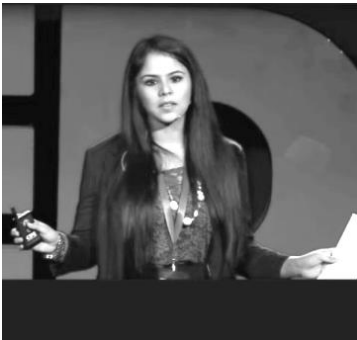
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**WILLI SCHOLZ**

Dr Willi Scholz is working as Science Policy Consultant and Head of YES! – Young Economic Summit at the ZBW – Leibniz Information Centre for Economics in Kiel, Germany. Also, he is Adjunct Professor of International Affairs at Vesalius College in Brussels, Belgium. Previously he worked at the Kiel Institute for the World Economy as Head of the Centre Global Economic Symposium (GES).



**DIVA SHARMA**

Diva is an eighteen year old innovator from India's capital city, New Delhi. She will graduate as a member of Stanford University's Class of 2021. She developed a device that can detect distress in humans and animals under the auspices of India's leading engineering institution - the Indian Institute of Technology, New Delhi (IIT-Delhi). Her device received noteworthy credit from the Indian Government and received an award from the President of India. She delivered a TEDx talk titled 'Girls need to lean in too!' that was selected by TED's TEDx Innovations as one of the eight talks worldwide. She also presented on inclusion and cross-sectoral parity through innovation at the World Bank Group's Annual Forum for Youth in Development at the World Bank Headquarters in Washington DC.



**DR KAMILA MARKRAM**

Kamila is the co-founder and CEO of Frontiers, and a neuroscientist and autism researcher at the Swiss Federal Institute of Technology Lausanne (EPFL). Frontiers is one of the largest and most impactful Open Science platforms in the world, on a mission to make science open for the benefit of humanity. Radically improving how science is reviewed, published, evaluated and disseminated to both researchers and the general public, Frontiers received the 2014 ALPSP Gold Award for Innovation in Publishing. Kamila was named a L'HEBDO Forum 100 personality, a Stevie Gold Award Winner for Women in Business, and a finalist for the Ernst and Young Entrepreneur of the Year Award 2016. In 2017, Kamila was a finalist for the EU Prize for Women Innovators.





### **JEREMY FARRAR**

Before joining Wellcome in October 2013, Jeremy was Director of the Oxford University Clinical Research Unit in Vietnam for 18 years. His research interests were infectious diseases, tropical health and emerging infections.

He has published over 500 peer-reviewed scientific papers, mentored many dozens of students and fellows, and served as Chair on several advisory boards for governments and global organisations, including the World Health Organization. He was named 12th in Fortune's list of the World's 50 Greatest Leaders in 2015.



### **FABIOLA GIANOTTI**

Fabiola Gianotti is the Director-General of CERN, the European Laboratory for Particle Physics in Geneva. She received a Ph.D. in particle physics from the University of Milano, and led the ATLAS experiment at the Large Hadron Collider at the time of the discovery of the Higgs particle in 2012.

She is associate member of the French, Irish, Italian and US Academies of Sciences. She received the Special Fundamental Physics Prize of the Milner Foundation and the Enrico Fermi Prize of the Italian Physical Society, as well as honorary doctoral degrees from universities across the world.