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DIRECTORATE FOR SCIENCE, TECHNOLOGY AND INDUSTRY

Global Forum on the Knowledge Economy

BIOGRAPHIES

BETTER INNOVATION POLICIES FOR BETTER LIVES

12-13 September 2011, OECD Conference Centre, Paris

For more information on the Global Forum please visit: www.oecd.org/knowledgeeconomy

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WELCOME AND OPENING SESSION

- **Andrew W. Wyckoff**
Director
Directorate for Science, Technology and Industry
OECD



Andrew W. Wyckoff is the Director of the OECD's Directorate for Science, Technology and Industry (STI) where he oversees OECD's work on innovation, business dynamics, science and technology, information and communication technology policy as well as the statistical work associated with each of these areas.

Mr. Wyckoff was previously Head of the Information, Computer and Communications Policy (ICCP) division at the OECD which supports the organisation's work on information society as well as consumer policy issues. Before heading ICCP, he was the head of STI's Economic Analysis and Statistics Division which develops methodological guidelines, collects statistics and undertakes empirical analysis in support of science, technology and innovation policy analysis.

His experience prior to the OECD includes being a program manager of the Information, Telecommunications and Commerce program of the US Congressional Office of Technology Assessment (OTA), an economist at the US National Science Foundation (NSF) and a programmer at The Brookings Institution.

Mr. Wyckoff is a citizen of the United States, holds a BA in Economics from the University of Vermont, and a Master of Public Policy from the JFK School of Government, Harvard University.

■ **Angel Gurría**
Secretary-General
OECD



Born on May 8th, 1950, in Tampico, Mexico, Angel Gurría came to the OECD following a distinguished career in public service, including two ministerial posts.

As Mexico's Minister of Foreign Affairs from December 1994 to January 1998, he made dialogue and consensus-building one of the hallmarks of his approach to global issues. From January 1998 to December 2000, he was Mexico's Minister of Finance and Public Credit. For the first time in a generation, he steered Mexico's economy through a change of Administration without a recurrence of the financial crises that had previously dogged such changes.

As OECD Secretary-General, since June 2006, he has reinforced the OECD's role as a 'hub' for global dialogue and debate on economic policy issues while pursuing internal modernization and reform. Under his leadership, OECD has expanded its membership to include Chile, Estonia, Israel and Slovenia and opened accession talks with Russia. It has also strengthened links with other major emerging economies, including Brazil, China, India, Indonesia and South Africa, with a view to possible membership. The OECD is now an active participant in both the G-8 and the G-20 Summit processes.

Mr. Gurría has participated in various international not-for-profit bodies, including the Population Council, based in New York, and the Center for Global Development based in Washington. He chaired the International Task Force on Financing Water for All and continues to be deeply involved in water issues. He is a member of the International Advisory Board of Governors of the Centre for International Governance Innovation, based in Canada, and was the first recipient of the Globalist of the Year Award of the Canadian International Council to honour his efforts as a global citizen to promote trans-nationalism, inclusiveness, and a global consciousness.

Mr. Gurría holds a B.A. degree in Economics from UNAM (Mexico), and a M.A. degree in Economics from Leeds University (United Kingdom). He speaks: Spanish, French, English, Portuguese, Italian and some German.

He is married to Dr. Lulu Quintana, a distinguished ophthalmologist, and they have three adult children.

PLENARY SESSION 1: How can science and innovation help?

Moderator:

Mr. Paul Hofheinz, President, Lisbon Council

Panel:

Mr. Juan Tomas Hernani, General Secretary for Innovation, Ministry of Science and Innovation, Spain

Sir Mark Walport, Director, Wellcome Trust

Prof. Robert Aumann, Hebrew University of Jerusalem, Nobel prize winner (Economics, 2005)

■ **Paul Hofheinz**
President,
Lisbon Council



Paul Hofheinz is president and co-founder of the Lisbon Council, an independent, non-partisan think tank based in Brussels, Belgium.

After a distinguished career in journalism, Mr. Hofheinz set up the Lisbon Council where he focuses on issues ranging from innovation, knowledge-economy, human capital and financial-market reform to economic development and European politics. He frequently appears on CNBC, Bloomberg and BBC, and has written for or been quoted in more than four dozen leading newspapers and academic journals. Mr. Hofheinz also oversees daily management of the Lisbon Council, where he is in charge of the organisation's growth and expansion. Currently, he also serves as advisor to the Polish government, providing strategic input into the country's first-ever European Union Presidency in the second half of 2011.

Before leaving journalism, Mr. Hofheinz worked as a writer and editor at The Wall Street Journal, covering such diverse topics as European integration, financial-market regulation, emerging markets and Russian politics. In 1998-1999, he was managing editor of Central European Economic Review, a magazine published by The Wall Street Journal Europe. Prior to that, Mr. Hofheinz served as associate editor of Fortune, America's leading business magazine, including stints as bureau chief in Bonn and Moscow. He began his journalistic career in London as a reporter for Time magazine.

Mr. Hofheinz holds a Master of Science (MSc) degree in Russian politics from London School of Economics and a Bachelor of Arts (BA) in history from Yale, where he received the prestigious John Addison Porter and Dean Henry P. Wright prizes upon graduation. In 1992, he received the Olive Branch Award from New York University's Center for War, Peace and Media Studies for a three-part series of articles in Fortune on the 1991 collapse of the Soviet Union. He speaks fluent English, Russian and French

- **Juan Tomas Hernani**
General Secretary for Innovation
Ministry of Science and Innovation
Spain



Juan Tomas Hernani is General Secretary for Innovation within Spain's Ministry of Science and Innovation since April 2009 and is President of CDTI and of the Genoma Foundation and Vice president of the Foundation for Science and Technology, FECYT. He is married with 3 children.

He is an Industrial Engineer from the University of Bilbao; he is an economist and also hosts a Master of Science (M.Sc) in advanced manufacturing from the Cranfield Institute of Technology (UK). Within the Ministry, he has been President of DDI and General Director of the Foundation for Science and Technology, FECYT.

He has more than 17 years of experience acting as General Director of various companies. He was the founder and CEO of KEON AZERTIA, a leading IT company specialized in the field of document processing. He was also General Manager of ISABEL (Conservas Gravilla). These activities were coached by the BBVA industrial group, where Mr Hernani worked for 11 years.

He has extensive experience as Chairman and Board Member of a number of companies operating in the fields of Information Technology, Food, Fashion and Design, Biotechnology and Real State. He was Technical Director of Robotiker Research Centre. He has also worked at Hewlett Packard and the 'Ente Vasco de la Energia'.

He has been Secretary of the Foundation metalingua-Unesco and he has been professor of marketing and e-business at the Finance School of the BBVA, in the University of Deusto (masters and degree) and the University of the Basque Country. He is also an amateur opera singer.

- **Mark Walport**
Director
Wellcome Trust



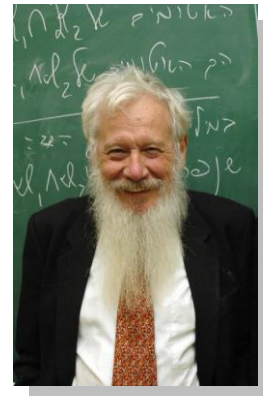
Sir Mark Walport FRS FMedSci is Director of the Wellcome Trust, which is a global charitable foundation dedicated to achieving extraordinary improvements in health by supporting the brightest minds. Before joining the Trust he was Professor of Medicine and Head of the Division of Medicine at Imperial College London.

He has been a member of the Prime Minister's Council for Science and Technology since 2004. He is also a member of the India UK CEO Forum, the UK India Round Table and the advisory board of Infrastructure UK and a non-executive member of the Office for Strategic Coordination of Health Research. He is a member of a number of international advisory bodies.

He has undertaken independent reviews for the UK Government on the use and sharing of personal information in the public and private sectors: '*Data Sharing Review*' (2009) and secondary education, '*Science and Mathematics: Secondary Education for the 21st Century*' (2010).

He received a knighthood in the 2009 New Year Honours List for services to medical research and was elected as Fellow of The Royal Society in 2011.

- **Robert Aumann**
Hebrew University of Jerusalem
Nobel Memorial Prize in Economic Sciences (2005)



Robert Aumann was born in Frankfurt am Main, Germany, in 1930, to a well-to-do orthodox Jewish family. Fleeing Nazi persecution, he emigrated to the United States with his family in 1938, settling in New York. In the process, his parents lost everything, but nevertheless gave their two children an excellent Jewish and general education. Aumann attended Yeshiva elementary and high schools, got a bachelor's degree from the City College of New York in 1950, and a Ph.D. in mathematics from MIT in 1955.

He joined the mathematics department at the Hebrew University of Jerusalem in 1956, and has been there ever since. In 1990, he was among the founders of the Center for Rationality at the Hebrew University, an interdisciplinary research center, centered on Game Theory, with members from over a dozen different departments, including Business, Economics, Psychology, Computer Science, Law, Mathematics, Ecology, Philosophy, and others.

Aumann is the author of over ninety scientific papers and six books, and has held visiting positions at Princeton, Yale, Berkeley, Louvain, Stanford, Stony Brook, and NYU. He is a member of the American Academy of Arts and Sciences, the National Academy of Sciences (USA), the British Academy, and the Israel Academy of Sciences; holds honorary doctorates from the Universities of Chicago, Bonn, Louvain, City University of New York, and Bar Ilan University; and has received numerous prizes, including the Nobel Memorial Prize in Economic Sciences for 2005.

PLENARY SESSION 2: Science and innovation policy on a shoestring – how can governments better leverage public funding following the financial crisis?

Moderator:

Mr. Geoff Mulgan, Chief Executive, National Endowment for Science, Technology and the Arts (NESTA)

Panel:

Rt. Hon David Willets MP, Minister of State for Universities and Science, United Kingdom

Mr. Sergey Ivanets, Deputy Minister, Ministry of Education and Science, Russian Federation

Mr. Jacques Stern, Senior Advisor to the Minister of Higher Education and Research, France

Mr. Finn Lauritzen, Director-General, Enterprise and Construction Authority, Denmark

Dr. Gordon Day, President-Elect, the Institute of Electrical and Electronic Engineers (IEEE)

■ **Geoff Mulgan**
Chief Executive
NESTA



Geoff Mulgan is Chief Executive of NESTA (National Endowment for Science Technology and the Arts). From 2004-2011 he was the first Chief Executive of the Young Foundation, which became a leading centre for social innovation, combining research, creation of new ventures and practical projects.

Between 1997 and 2004 Geoff had various roles in the UK government including director of the Government's Strategy Unit and head of policy in the Prime Minister's office. Before that he was the founder and director of the think-tank Demos. He has also been Chief Adviser to Gordon Brown MP; a lecturer in telecommunications; an investment executive; and a reporter on BBC TV and radio. He is a visiting professor at LSE, UCL, Melbourne University and a regular lecturer at the China Executive Leadership Academy. He is an adviser to many governments around the world, and has been a board member of the Work Foundation, the Health Innovation Council, Political Quarterly and the Design Council, and chair of Involve.

His recent books include The Art of Public Strategy - Mobilising Power and Knowledge for the Public Good (OUP, 2008), Good and Bad Power: the ideals and betrayals of government (Penguin, 2006) and Connexity (Harvard Business Press and Jonathon Cape, 1998)

- **David Willetts**
Minister of State for Universities and Science
United Kingdom



Portfolio

Looking across all departmental business at strategic priorities, higher education (including HEFCE and Student Loans Company), science and research (including Research Councils), life sciences, innovation, also responsible for the Technology Strategy Board, National Endowment for Science, Technology and the Arts (NESTA), Energy Technologies Institute, the National Measurement Office, the Design Council, the UK Accreditation Service, the British Standards Institute and Space (www.bis.gov.uk)

Biography

David has been the Member of Parliament for Havant since 1992. He has worked at HM Treasury, the Number 10 Policy Unit, served as Paymaster General in the last Conservative Government and then in the Shadow Cabinet.

He was a Visiting Fellow at Nuffield College, Oxford, is a Governor of the Ditchley Foundation and a member of the Council of the Institute for Fiscal Studies. He has written widely on economic and social policy.

His book, 'The Pinch: How the baby boomers took their children's future – and why they should give it back' was published earlier this year.

David is married to Sarah Butterfield and they have two children. David and Sarah are keen walkers and swimmers. He has swum the Solent and raised £1,500 for charity cycling in the Paris to Hayling ride.

- **Sergey Ivanets**
Deputy Minister
Ministry of Education and Science
Russian Federation



Born in 1965 in Moscow, Sergey Ivanets graduated from famous Moscow Engineering Physical Institute, so called «Nuclear College», now National Research Nuclear University with an engineer's degree. Few years later he got his Ph.D. degree in computer science from the same University. Speaks Russian, English and Spanish.

Dr. Ivanets actively promoted various projects of international cooperation in the sphere of science and technology outside Russia. Joined the Diplomatic Service and supported Russia's participation in International Space Station project from the United States as well as Russia's agricultural cooperation with Latin America from Argentina.

As Deputy Minister since 2010 the responsibility of Dr. Ivanets covers all the aspects of international cooperation in the sphere of science, technology and education, including academic mobility, interuniversity networking, joint research projects and in general integration of Russian universities and research organizations on international scientific and educational environment. One of most distinguished project of recent period is attraction of leading scientists from around the World to Russian universities with almost half a billion USD budget.

He is married and has two daughters.

■ **Jacques Stern**

Senior Advisor to the Minister of Higher Education
and Research
France



Jacques Stern is a graduate of the Ecole Normale Supérieure (ENS, 1968). He was granted his PhD by the University of Paris 7 (1975), and he has been a professor at the University of Caen, next at the University of Paris 7, and finally, from 1993 to 2007, a professor at ENS and the Director of the Computer Science Laboratory, that he has founded in 1999.

Jacques Stern is an expert in computer security and cryptography. He has made over 100 contributions to scientific journals and has published a book entitled "La science du secret" (The science of secrecy). He holds a dozen patents. His main work has been devoted to the cryptanalysis and provable security of public key algorithms, as well as to the design of cryptographic algorithms suitable for smart cards applications.

Jacques Stern, who counts amongst the handful of Fellows of the International Association for Cryptologic Research, has been a member of numerous editorial or scientific committees and the chairman of the CCS (Communications and Computer Security) ACM conference in 1996 and of the 1999 Eurocrypt conference. He was also the recipient of the Lazare Carnot Prize from the French Academy of Sciences in 2003, of the CNRS Gold Medal, the highest French National Scientific Award in 2006, and of the RSA Award in 2007. In 2008, he was awarded the "Science and Defence" prize by the French Ministry of Defence. Jacques Stern is an "Officier" of the "Légion d'honneur".

From 2005 to 2010, Jacques Stern has been a director of the company Ingenico, world supplier of transaction and secure payment solutions. He has become the Chairman of the Board of Ingenico in 2007 and has been appointed in August 2007 as Chairman of ANR (Agence Nationale de la Recherche).

In 2010, Jacques Stern left his positions both at Ingenico and at ANR and joined the Cabinet of the French Ministry for Higher Education and Research as Senior Advisor to Minister Valérie Pécresse, a position that he has kept under Minister Laurent Wauquiez.

- **Finn Lauritzen**
Director General
Enterprise and Construction Authority (DECA),
Denmark



Finn Lauritzen has been director-general in the Danish Enterprise and Construction Authority (DECA) since 2006. DECA's responsibility is development and implementation of policy initiatives in areas of entrepreneurship, innovation, trade, construction and regional development. Finn Lauritzen has been a central figure in the renewal of DECA's analytical and practice-oriented capabilities since 2006.

Before 2006, Finn Lauritzen served as director-general in the Danish Competition Authority for 9 years. He played a key in establishing a modern, independent and coherent enforcement of competition policy in line with the best European practice.

Finn Lauritzen has a Master of Economics and has been associate professor and censor at the University of Copenhagen for more than a decade.

Finn Lauritzen has been involved in a number of OECD committees and acted as deputy chair in CIIE since 2008.

- **Gordon W. Day**
President – Elect
The Institute of Electrical and Electronic Engineers IEEE



Gordon Day spent most of his career in research and management at the National Institute of Standards and Technology, where he founded and led the NIST Optoelectronics Division. His personal research ranged from fundamental optical measurements to the development of standards for optical fiber and new concepts in instrumentation. More recently, he served as science advisor to Senator Jay Rockefeller and Director of Government Relations for the Optoelectronics Industry Development Association.

He has been a Professor Adjoint at the University of Colorado and a Visiting Fellow at the University of Southampton (UK), and has served on many industry, government, and academic advisory groups. He is a past President of the IEEE Photonics Society and of IEEE-USA, and is a Fellow of IEEE, AAAS, the Optical Society of America, and the Institute of Physics (UK). He received B.S., M.S., and Ph.D. degrees in electrical engineering from the University of Illinois.

PARALLEL SESSION 3A: Strengthening science-industry interactions

Moderator:

Mr. Luis Sanz-Menéndez, Chair, OECD Committee for Scientific and Technological Policy (CSTP)

Panel:

Mr. Rick Johnson, CEO and Founder of Global Helix LLC

Prof. David Mowery, University of Berkeley

Prof. Mario Calderini, Politecnico di Torino & Italian National Agency for Innovation

Mr. Chuan Poh Lim, Chairman, Agency for Science, Technology and Research (A*STAR), Singapore

Mr. Yong-geun Kim, President of KIAT (Korea Institute for Advancement of Technology)

■ **Luis Sanz-Menéndez**

Chair

OECD Committee for Scientific and Technological
Policy (CSTP)



Luis Sanz-Menéndez, a Spanish national, is CSIC Research Professor and Director of the Institute of Public Goods and Policies (IPP) from the CSIC (National Research Council) in Madrid and he has been chair of the OECD Committee for Scientific and Technological Policy (CSTP) since late 2007.

He also has worked in a variety of advisory roles to the Spanish authorities at the Ministries of *Education and Science* and *Science and Innovation* since 2004. He has been member of the GRENCYT, where it was elaborated the National Strategy for Science and Technology (2007-2015), which was approved by The Conference of Government Presidents (National and Regionals) and the 6th. National R&D and Innovation Plan (2008-2011). Previously he was Deputy Director General for Research Planning and Monitoring at the Ministry of Science and Technology and responsible of the Spanish National Research, Technology and Innovation Plan.

He was also involved in several international S&T policy advisory activities (among others: the European Commission (Directorate General for Research); OCDE; UNESCO; Inter-American Development Bank (IDB); UNIDO, COST, etc.) and he has also been engaged with developing analysis and advising for science and innovation policy making entities for science and technology in several countries, especially in Latin American countries.

Luis received his PhD at the Complutense University in Madrid in Political Sciences and Sociology and he has been postdoctoral fellow and visiting researcher in various universities such as UC Berkeley, CSI-École des Mines in Paris, University of Twente in The Netherlands, GeorgiaTech in Atlanta, etc.

Dr. Sanz-Menendez has published numerous papers on science and innovation policies in leading international journals such as *Research Policy*, *Scientometrics*, *Journal of Technology Transfer*, *Research Evaluation*, *Science and Public Policy*, *Technological Forecasting and Social Change*, *International Journal of Technology Management*, *International Studies on Management and Organization*, *Regional Studies*, etc. and written or edited books and policy reports, including *Análisis sobre ciencia e innovación en España* (L. Sanz-Menéndez & L. Cruz-Castro, eds. (2010), Madrid:FECYT, 849 pags), *Conocer para transformar: Producción y Reflexión sobre ciencia, tecnología e innovación en Iberoamerica* (H. Vessuri, P. Kreimer, A. Arellano & L. Sanz Menéndez, eds (2010). Caracas: UNESCO-IESALC), *Management and New Technologies*, (C.E. Garcia & L. Sanz-Menéndez, eds. (1998). Brussels: CEC-COST, 560 pp.), *Estado, ciencia y tecnología en España (1939-1997)* (Madrid: Alianza Universidad, 1997].

- **Rick Johnson**
CEO and Founder
Global Helix LLC



Rick Johnson is the CEO and Founder of Global Helix LLC, a consulting and government strategy firm based in Washington, D.C. that focuses on: (1) strategic policy issues related to S&T policy, innovation, the globalization of R&D, massive data and “e-Science”, intellectual assets, emerging technology platforms, research policy, and public-private partnerships; (2) the internationalization of research universities and public-private research networks; and (3) life sciences, eco-innovation (energy/environment), nanotechnology, and technology platforms and tools for research. Rick also has worked extensively on the linkage of global development strategies with fundamental research and innovation initiatives.

After 30 years, he retired as Senior Partner in the Washington, D.C. office of Arnold & Porter LLP but continues to serve as Senior Counsel. He specializes in: (1) legal and regulatory issues related to fundamental research, innovation and collaborative mechanisms; and (2) new research, public-private and multi-stakeholder mechanisms for linking fundamental research, entrepreneurship and innovation with emerging technologies for development and with new university-industry collaboration models.

He served as General Counsel for International Trade at the U.S. Commerce Department where he was responsible for both U.S. trade policy and international technology issues. In addition to receiving his Juris Doctor degree from the Yale Law School where he was Editor of the *Yale Law Journal*, he received his M.S. from the Massachusetts Institute of Technology where he was a National Science Foundation National Fellow and his undergraduate degree with Highest Honors from Brown.

He serves as the Chairman or Vice-Chairman of three OECD/BIAC Committees – Biotechnology and Life Sciences, Technology, and Nanotechnology. Rick also is a member of the MIT Corporation Visiting Committee, Brown’s Advisory Council on Biology and Medicine, the Brown Institute on Brain Science, the MIT Innovation and Convergence Initiatives, and several advisory groups focused on the changing nature of S&T policy and innovation in a new era of convergence, complexity, and computation. He participates on several National Academy of Sciences and Engineering panels and projects. Rick recently served as co-reviewer and co-chair for the Board on Science, Technology and Economic Policy (STEP) at the National Academies and participated with the Board on Life Sciences in their recent strategic review of the life sciences. He also is the co-chair of the National Academies’ synthetic biology project, a Director of the BioBricks Foundation, and Executive Fellow at the Center for Science, Technology, and Society at Santa Clara University. In addition to synthetic biology, he currently is involved in a number of global policy initiatives related to emerging infrastructure for global research, “big data”, public-private research models for converging technologies, and innovative technology-entrepreneurship-development platforms.

■ **David C. Mowery**

Professor
Walter A. Haas School of Business
University of California, Berkeley



David Mowery is William A. and Betty H. Hasler Professor of New Enterprise Development at the Walter A. Haas School of Business at the University of California, Berkeley and a Research Associate of the National Bureau of Economic Research.

He received his undergraduate and Ph.D. degrees in economics from Stanford University and was a postdoctoral fellow at the Harvard Business School. Dr. Mowery taught at Carnegie-Mellon University, served as the Study Director for the Panel on Technology and Employment of the National Academy of Sciences, and served in the Office of the United States Trade Representative as a Council on Foreign Relations International Affairs Fellow.

He has been a member of a number of National Research Council panels, including those on the Competitive Status of the U.S. Civil Aviation Industry, on the Causes and Consequences of the Internationalization of U.S. Manufacturing, on the Federal Role in Civilian Technology Development, on U.S. Strategies for the Children's Vaccine Initiative, and on Applications of Biotechnology to Contraceptive Research and Development.

During 2003-2004, he was the Marvin Bower Research Fellow at the Harvard Business School. His research deals with the economics of technological innovation and with the effects of public policies on innovation; he has testified before Congressional committees and served as an adviser for the Organisation for Economic Co-operation and Development, various federal agencies and industrial firms.

Dr. Mowery has published numerous academic papers and has written or edited a number of books, including the Oxford Handbook of Innovation; Innovation, Path Dependency, and Policy; Innovation in Global Industries; Ivory Tower and Industrial Innovation: University-Industry Technology Transfer Before and After the Bayh-Dole Act; Paths of Innovation: Technological Change in 20th-Century America; The International Computer Software Industry: A Comparative Study of Industry Evolution and Structure; U.S. Industry in 2000; The Sources of Industrial Leadership; Science and Technology Policy in Interdependent Economies...

His academic awards include the Raymond Vernon Prize from the Association for Public Policy Analysis and Management, the Economic History Association's Fritz Redlich Prize, the Business History Review's Newcomen Prize, and the Cheit Outstanding Teaching Award.

■ **Mario Calderini**

Full Professor of Strategy and Innovation Management
Politecnico di Torino
Italian National Agency for Innovation



Mario Calderini holds a PhD in Economics from the University of Manchester and a MSc in Engineering from Politecnico di Torino. He is Full Professor of Strategy and Innovation Management at Politecnico di Torino where he is also Deputy Director of the Doctoral School.

He sits in the Board of Directors of the Italian National Agency for Innovation under the Presidency of the Council of Ministers and from 2005 to July 2010 he was the President of Finpiemonte, the regional development agency of Piemonte Region, managing a 300 million euro yearly budget and several science parks and academic incubators.

He is now senior advisor to the Regional Minister for Research and Innovation and he is a consultant for the European Commission, the OECD and several Italian Ministries. He is also a member of the European Patent Office Academy Advisory Board. Mario Calderini's main academic interest is in the economics and management of innovation.

His numerous publications in highly ranked international journals cover several topics: technology and innovation policies, empirical studies on the determinants of innovative activity, technology and knowledge transfer, the strategic management of intellectual property rights and finance for innovation.

- **Chuan Poh Lim**
Chairman
Agency for Science, Technology and Research
(A*STAR)



Mr Chuan Poh Lim was appointed Chairman A*STAR on 1 April 2007 to lead A*STAR in conducting world-class scientific research and developing human capital for a vibrant knowledge-based, innovation-driven Singapore.

Prior to helming A*STAR, Mr Lim was Permanent Secretary at the Ministry of Education (MOE) from July 2003 to March 2007. Before that, LG(NS) Lim Chuan Poh spent 23 years with the Singapore Armed Forces and last held the office of the Chief of Defence Force.

Mr Lim Chuan Poh graduated with a Bachelor of Arts (Honours) degree in Mathematics in 1983 and received a Master of Arts degree in 1988 from Cambridge University. He received a Masters in Business Administration degree (with distinction) from Cornell University in 1993.

For his contributions in Science and Technology in Singapore, Mr Lim Chuan Poh was conferred the Honorary Degree of Doctor of Science by Loughborough University (UK) in 2008; the Honorary Degree of Doctor of Laws by Monash University (Australia) the following year; and the Fellowship of Imperial College in 2010. He was also awarded a fellowship under the Invitation Programme for Leaders by the Japanese Ministry of Foreign Affairs in December 2010. In January 2009, he was named as one of the eight key figures on the list of “People to Watch in 2009” by SCIENCE magazine (Volume 323, 2 January 2009).

- **Yong-Geun KIM**
President
Korea Institute for Advancement of Technology
(KIAT)



Yong-geun Kim is President of the Korea Institute for Advancement of Technology (KIAT), a quasi-governmental institute under the Ministry of Knowledge Economy. As the first President of KIAT, Yong-geun Kim brings more than 30 years experience in establishing industrial policy and has played a critical and essential role in vitalizing Korea's industrial technology ecosystem.

He has promoted bilateral and multilateral cooperation with the US, European countries, Israel, Russia and China and developed joint R&D programs at home and abroad, which facilitated KIAT's inclusion as an associate member of Eureka and the EEN (Enterprise Europe Network) and also hosted the tech+ Forum, a global network of intellectuals and experts, promoting the status of Korea as a technological power.

Before joining KIAT in 2009, he held such illustrious posts as Director General and later Deputy Minister for Industrial Policy in the Ministry of Commerce, Industry and Energy, Korea.

From 2004-2007, he was Commercial Counselor at Permanent Mission of Korea to the UN Secretariat and International Organization in Geneva.

He has also served as Director General at the Korean Peninsula Energy Development Organization, Researcher at the Hudson Institute, and Director at OECD. Yong-geun Kim received a Master's in Public Administration and a Bachelor of Arts in Economics from Seoul National University in Seoul, Republic of Korea.

Parallel SESSION 3B: Changing the game- boosting entrepreneurship

Moderator:

Ms. Karen Wilson, Directorate for Science, Technology and Industry, OECD

Panel:

Mr. Anders Hoffmann, Deputy Director General of Entrepreneurship Policy, Denmark

Mr. E.J Reedy, Research Fellow, Ewing Marion Kauffman Foundation

Dr. Albert Bravo-Biosca, Senior Economist, NESTA

Mr. Jan Muehlfeit, Chairman Europe, Microsoft Corporation

- **Karen Wilson**
Structural Policy Division
Directorate for Science, Technology and Industry
OECD



Karen works in the Structural Policy Division of the OECD Science and Technology Directorate. She also works as a Senior Fellow at the Kauffman Foundation, responsible for Europe. She is currently a Board Member and Advisor of the European Foundation for Entrepreneurship Research (EFER) and serves as a member of the European Leadership Council for Harvard Business School.

In 2004, she founded GV Partners, a firm working with both start-ups and initiatives to facilitate the development of a broader entrepreneurial ecosystem. Focus areas include finance, policy and entrepreneurship education. She has authored many papers on these topics. Prior to founding GV Partners, Karen worked with a leading pan-European venture capital firm, Index Ventures. Previously, she was part of the senior management team at the World Economic Forum in Geneva, Switzerland and, before that, served as the Executive Director of the Global Initiative at Harvard Business School. Her past experience also includes management consulting, primarily in financial services, as well as investment banking.

She received, with honors, a Bachelors of Science in Mathematics and Management from Carnegie Mellon University and an MBA from Harvard Business School.

- **Anders Hoffmann**
Deputy Director General
Entrepreneurship Policy
Danish Enterprise and Construction Authority



Anders Hoffmann serves as Deputy Director General of Entrepreneurship Policy at Danish Enterprise and Construction Authority and holds a PhD in Economics.

Anders Hoffmann has been a key person in developing and implementing Danish entrepreneurship policies. He has been involved in a range of projects related to the development of a theoretical approach to micro-policy research, and has also been a key participant in the practical use of benchmarking analysis in identifying best-practice policies and evaluating the effects of policy instruments at a micro-level.

Anders Hoffmann has also served as a Senior Economist with the OECD. Prior to this Anders Hoffmann served in various leadership positions with the Danish Ministry of Trade and Industry.

Anders Hoffmann has published articles in several major journals including Journal of International Economics and Economic Modelling. Mr Hoffmann served as External Assistant Professor in International Economics at the Copenhagen Business School.

- **Mr. E.J. Reedy**
Research Fellow
Ewing Marion Kauffman Foundation



As a Research Fellow in Research and Policy, E.J. Reedy oversees grants and conducts academic and policy research for the Ewing Marion Kauffman Foundation in the field of entrepreneurship.

He has been significantly involved in the coordination of the Kauffman Foundation's entrepreneurship and innovation data-related initiatives, including the Kauffman Firm Survey and the Foundation's multi-year series of symposiums on data, as well as many web-related projects and initiatives.

Reedy joined the Kauffman Foundation in 2003. Prior to joining the Kauffman Foundation, Reedy was a senior analyst at the Federal Reserve Bank of Kansas City and had extensive experience in non-profit management.

Previously, he was financial director and executive co-director of the Center for Community Outreach at the University of Kansas in Lawrence. Reedy is active in several civic initiatives, and has been the recipient of the Founders' Award from the Lesbian and Gay Community Center of Greater Kansas City.

Reedy earned his bachelor's degree, Phi Beta Kappa, in economics, mathematics, and American studies from the University of Kansas.

- **Albert Bravo Biosca**
Senior Economist
NESTA



Albert Bravo Biosca is Senior Economist at NESTA, where he joined in 2007. He has led NESTA's research on firm growth dynamics and productivity. His work has also encompassed other topics, such as the drivers of venture capital performance and the development of innovation metrics that better capture the contribution that intangible assets make to productivity growth.

Prior to NESTA, he gained a PhD in economics at Harvard University specialising in innovation and finance. His dissertation examined the effect of different types of financial institutions on inventive activity, and the relationship between firms' ownership structure and innovation. He also has an MSc in Economics from the London School of Economics, and a BA in Economics from Pompeu Fabra University in Barcelona, Spain. He also studied at Bonn University, Germany.

- **Jan Muehlfeit**
Chairman Europe,
Microsoft Corporation



ICT industry veteran almost 18 years in MS. Led CEE region in 2000-05.

Vice President of Microsoft's Public Sector team in Europe, Middle East and Africa (EMEA) in 2005, Vice President, EMEA Corporate & Government Strategy in 2006 and later Chairman Europe, Microsoft Corporation, Mr. Muehlfeit is a Vice-Chair of the Academy of Business in Society (ABiS), board member of JA, Co-Chairman of the European e-Skills Association and a member of the Board of AIESEC and Ovum advisory body.

Jan Muehlfeit has been serving in different advisory boards of several European governments in the field of ICT, national competitiveness and education.

He also represents Microsoft on the TABD, the Transatlantic Business Dialogue and is involved as advisor in different projects of European Policy Center (EPC).

He is chairman of European roundtable GEI of World Economic Forum. He is also a board member of Czech National museum.

PLENARY SESSION 4: Fostering green innovation

Moderator:

Mr. Ken Warwick, Chair, OECD Committee on Industry, Innovation and Entrepreneurship (CIIE)

Panel:

Prof. David Mowery, University of Berkeley

Prof. Keith Smith, BIS, United Kingdom and Imperial College

Prof. Reinhilde Veugelers, Breugel Institute

Dr. Gernot Klotz, Executive Director for Research and Innovation, CEFIC

Mr. K. Ananth Krishnan, Chief Technology Officer, Tata Consultancy Services, India

- **Ken Warwick**
Chair
OECD Committee on Industry, Innovation and
Entrepreneurship (CIIE)



Ken Warwick has been chair of the OECD Committee on Industry, Innovation and Enterprise since 2007 and an active participant in the Committee's meetings since 1997. He was chair of the Committee's Working Party on Globalisation of Industry from 2004-2007.

Ken was until July 2011 the Director of Analysis in the UK Department for Business, Innovation and Skills. He was Director of Economics and Deputy Chief Economic Adviser in the department from 2003-2011 and served as Acting Director General, Economics between August - December 2010. He has also worked in a variety of senior economist roles in the Department of Trade and Industry and the Foreign and Commonwealth Office.

Ken was educated at Cambridge and Yale universities. His early career was spent in economic advisory roles in the FCO, DEFRA and at the IMF in Washington, where he was a staff member in the Research Department and the European Department.

In addition to his departmental duties, Ken was a member of the board of the Government Economic Service, the chair of several GES Committees and a non-executive director of DfID's Investment Committee. He has also served on a number of advisory boards for economic research programmes, including the Advanced Institute for Management Research (AIM).

- **David C. Mowery**
Professor
Walter A. Haas School of Business
University of California, Berkeley



David Mowery is William A. and Betty H. Hasler Professor of New Enterprise Development at the Walter A. Haas School of Business at the University of California, Berkeley and a Research Associate of the National Bureau of Economic Research.

He received his undergraduate and Ph.D. degrees in economics from Stanford University and was a postdoctoral fellow at the Harvard Business School. Dr. Mowery taught at Carnegie-Mellon University, served as the Study Director for the Panel on Technology and Employment of the National Academy of Sciences, and served in the Office of the United States Trade Representative as a Council on Foreign Relations International Affairs Fellow.

He has been a member of a number of National Research Council panels, including those on the Competitive Status of the U.S. Civil Aviation Industry, on the Causes and Consequences of the Internationalization of the U.S. Manufacturing, on the Federal Role in Civilian Technology Development, on U.S. Strategies for the Children's Vaccine Initiative, and on Applications of Biotechnology to Contraceptive Research and Development.

During 2003-2004, he was the Marvin Bower Research Fellow at the Harvard Business School. His research deals with the economics of technological innovation and with the effects of public policies on innovation; he has testified before Congressional committees and served as an adviser for the Organisation for Economic Co-operation and Development, various federal agencies and industrial firms.

Dr. Mowery has published numerous academic papers and has written or edited a number of books, including the Oxford Handbook of Innovation; Innovation, Path Dependency, and Policy; Innovation in Global Industries; Ivory Tower and Industrial Innovation: University-Industry Technology Transfer Before and After the Bayh-Dole Act; Paths of Innovation: Technological Change in 20th-Century America; The International Computer Software Industry: A Comparative Study of Industry Evolution and Structure; U.S. Industry in 2000; The Sources of Industrial Leadership; Science and Technology Policy in Interdependent Economies...

His academic awards include the Raymond Vernon Prize from the Association for Public Policy Analysis and Management, the Economic History Association's Fritz Redlich Prize, the Business History Review's Newcomen Prize, and the Cheit Outstanding Teaching Award.

- **Keith Smith**
Imperial College and BIS,
UK



Keith Smith is Senior Research Fellow in the Innovation and Entrepreneurship Group, Imperial College Business School, and Adjunct Professor at the Centre for Technology, Innovation and Culture, University of Oslo. He is currently on secondment from Imperial (for 80% of his time) to the Department of Business, Innovation and Skills (BIS) in London, where he heads the Science and Innovation Analysis Division within the Science and Research Group.

The Science and Research Group at BIS is responsible for the UK Science Budget, and in particular the funding for science through the UK's seven Research Councils. Science and Research works very closely with the Innovation Group, which is responsible for the Technology Strategy Board and all other UK innovation policy instruments. At BIS, Keith Smith is responsible for policy analysis across science and innovation, including the management of and reporting from the UK Innovation Survey and monitoring UK R&D and science performance. The Science and Innovation Analysis Division carries out research and analysis projects in support of senior officials in their work on the level, composition and management of the UK Science Budget, and advises and supports Ministers in these fields. Keith Smith represents the UK on the OECD's Committee on Science and Technology Policy (CSTP) and is a member of its management bureau. He supervises other UK delegates to the subcommittees and working parties of CSTP. He represents the UK on relevant EU policy committees related to R&D and innovation indicators and policy.

After training at Cambridge and Sussex universities, Keith Smith has worked extensively on issues in the economics of innovation. From 1990-2000 he was Director of the STEP Group (Studies in Technology and Economic Policy) in Oslo, Norway, and was then at the United Nations University (UNU-INTECH) in Maastricht, working on innovation and development issues. He worked for the European Commission, at the Joint Research Centre in Seville, Spain, on policy issues related to the European Research Area. More recently (2005-8) he was Professor of Innovation at the Australian Innovation Research Centre, University of Tasmania, where he developed and led the world's first innovation census. He has consulted extensively for national governments and international organisations as well as serving on government policy commissions in several countries. His research has concentrated on the nature of innovation processes, on innovation systems theories and public policy, on innovation in low-technology industries and on innovation statistics and indicators. He has published extensively on each of these topics.

- **Reinhilde Veugelers**
Professor at University of Leuven
Senior Fellow at Bruegel



Prof Dr. Reinhilde Veugelers is a full professor at KULeuven (BE) at the Faculty of Economics and Business, where she teaches international business economics and game theory. From 2004-2008, she was on academic leave, as advisor at the European Commission (BEPA Bureau of European Policy Analysis). She is currently a Senior Fellow at Bruegel, a CEPR Research Fellow. She is also co-promoting ECOOM, the Flemish Center for R&D Monitoring. She was a visiting scholar at Northwestern University's Kellogg Graduate School of Management, Sloan School of Management, MIT, Stern Business School, NYU (US), UCL (BE), ECARES/ ULBrussels, (BE) Paris I (FR) UPF & UAB-Barcelona (ES), UMaastrecht (NL) and is currently visiting faculty at the MSI program of the Barcelona UPF-UAB Graduate School.

With her research concentrated in the fields of industrial organisation, international economics and strategy, innovation and science, she has authored numerous publications in leading international journals. Her research combines analytical frameworks, using micro-economics, game theory and economics of information models, with empirical, mostly econometric testing on large datasets. Specific recent topics include incentives for innovation activities, international technology transfers through MNEs, impact on local R&D of multinational competition, internal and external technology sourcing, alliances and their stability, inter-company technology transfers through co-operation, young innovative companies, industry science links and their impact on firm's innovative productivity, performance of technology transfer offices at universities, designing university spin-off contracts, explaining scientific productivity: persistency and skewness, researchers' international mobility. She coordinates a large, multidisciplinary research project on radical innovations. Recent policy topics include: university governance and higher education reforms, young radical innovators, innovation policy indicators, innovation strategies for catching-up countries, innovation for climate change.

Website: www.econ.kuleuven.be/msi/members/veugelers.htm and www.bruegel.org

- **Gernot Klotz**
Executive Director
Research & Innovation
European Chemical Industry Council (CEFIC)



Dr. Gernot Klotz studied Biology and Microbiology at the University of Aachen (Germany). After having worked for the US based pharmaceutical company Armour he joined Bayer in various business sections (pharmaceutical, animal health and crop protection/product development).

Since February 2007 G. Klotz is the Executive Director for Research and Innovation for the European Chemical Industry Council (CEFIC). He is a member of the CEFIC Leadership Team, which has the overall responsibility for coordinating and steering the activities of the organisation. Specific key areas of responsibility are innovation (technology development, innovation policies, societal acceptance of new technologies and products), emerging science-policy issues (Health and Environment) and nano risk benefits and testing risk assessment within the CEFIC Long Range Research Initiative (LRI), as well as managing the CEFIC Research and Innovation Board. He is also a Board Member of the EU Technology Platform for Sustainable Chemistry (SusChem).

G. Klotz has been called on to various advisory and steering committees at OECD, WHO and EU Commission level in areas like innovation, technology development, testing and assessment, impact on environment on health and sensitive subpopulations. He is currently chairing the Group on Nanotechnologies and he is responsible for the Value Chain topic within the High Level Group Key Enabling Technologies (HLG KETs).

- **K Ananth Krishnan**
Chief Technology Officer
Tata Consultancy Services,
India



K Ananth Krishnan is an M. Tech. in Computer Science and an M.Sc in Physics from the Indian Institute of Technology, Delhi. He also has a Bachelor's degree in Physics from Fergusson College, Pune. He joined TCS in February 1988, straight from campus.

Ananth is currently the Chief Technology Officer of TCS and chairs the TCS Corporate Technology Board. He is a member of the TCS Corporate Think-Tank since 1999, and has led several strategic initiatives. He has been a Principal Architect and Lead Consultant in the Architecture and Technology Consulting Practice, and earlier the head of the TCS Systems Management and the Systems Software Group.

He was named in Computerworld's Premier 100 IT Leaders for 2007, and in Infoworld's Top 25 CTOs in the same year. He was named a Distinguished Alumnus of the Indian Institute of Technology, Delhi in 2009.

He was an invitee to the quarterly management review with the TCS Board (the executive committee of Tata Sons Limited) from April 2000 to March 2004. He has served on several Advisory Boards of software companies as well Industry and academic bodies and Government committees. He has served on the organizing committees of several national and international conferences.

He is a Senior Member of the IEEE and of the Computer Society of India as well as a member of the Association of Computing Machinery, and serves on the ACM India Council. He has been an invited faculty in the Department of Management Studies at the Indian Institute of Technology, Madras.

Ananth is married, with two children and lives in Chennai. He has formally retired from a successful career in Trivia and Quizzing (which includes the 'Brain of IIT' individual title and two 'Cranium Cup' titles at IIT and several years on the IIT Quiz team), public speaking, crossword puzzle solving and cricket.

PLENARY SESSION 5: Making the transformation happen – applying science and innovation in emerging and developing economies

Moderator:

Mr. Stephen Groff, Deputy Director, Development Co-operation Directorate, OECD

Panel:

Dr. John Thomson, Vice President of Strategic R&D Networks, Vertex Pharmaceutical Incorporated

Mr. Liu Yanhua, Counsellor to the State Council, former Vice Minister of Science and Technology, China

Mr. Tran Ngoc Ca, Director of Secretariat, National Council for Science and Technology Policy, Vietnam

Mr. Carlos Braga, Special Representative and Director External Affairs, Europe, The World Bank

Mr. Meoli Kashorda, Executive Director of the Kenya Education Network Trust

- **Stephen Groff**
Deputy Director,
Development Co-operation Directorate
OECD



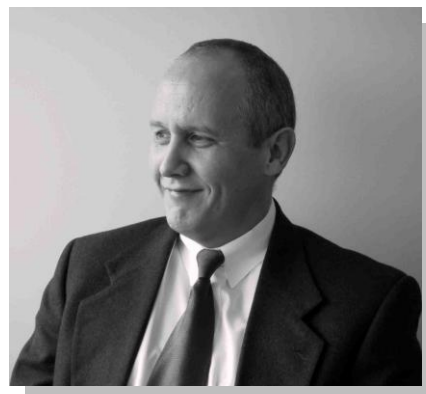
Stephen P. Groff is Deputy Director for Development Co-operation at the OECD in Paris where he leads strategic policy analysis on a wide range of development-related economic and political issues. He serves as OECD's envoy to the G20 Working Group on Development, the G8 Accountability Working Group and the UN Secretary General's High Level Task Force on Food Security. Mr. Groff is also a member of the World Economic Forum's Global Agenda Council and is a director on the board of the National Peace Corps Association.

Prior to OECD, Mr. Groff was Deputy Vice President for Operations at the Millennium Challenge Corporation where he oversaw a broad range of MCC activities and advised the CEO on development issues, strategy and policy while playing a central role in ensuring quality, technical excellence and development impact in MCC operations.

Mr. Groff has extensive international development expertise having spent the last 25 years working and living in over 30 developing countries around the world. Prior to MCC, Mr. Groff was a senior advisor at the Asian Development Bank in Manila and was extensively engaged in AsDB's operational work in East, Southeast, and Central Asia and in the Pacific, as well as across a wide range of the major strategic and policy issues confronting all major development institutions today.

Prior to his tenure at AsDB, Mr. Groff was the deputy director and chief economist on a large USAID project designed to encourage private sector development in the southern Philippines, a Program Director for the U.S. Refugee Program, and a U.S. Peace Corps Volunteer. Mr. Groff holds a two-year MPA from the Kennedy School at Harvard University and a B.S. from Yale College.

- **John Thomson, Ph.D.**
Vice President
Strategic R&D Networks
Vertex Pharmaceuticals Incorporated



Dr. Thomson is Vice President of Strategic R&D Networks at Vertex Pharmaceuticals Incorporated, whereby he seeks to augment institutional drug R&D processes and maximize the liberation of intellectual property value through innovative partnership networks. This includes helping to coordinate the assessment and acquisition of novel technologies, creating new drug development schemas, especially for new markets and “poverty sector” neglected diseases, and designing the architecture and IP-liberation tools for multi-partner alliance networks.

Dr. Thomson joined Vertex in 1989 and later headed the company’s Cambridge (MA) research activities for a number of years. He has contributed to programs in immunoregulation, inflammation, anti-infectives, and oncology research. These programs yielded more than 30 drug development candidates, including three novel marketed drugs. He led Vertex’s HCV Research Project from 1993 to 1998, which discovered telaprevir (*Incivek*[™]) a transformational direct-acting anti-HCV drug.

Dr. Thomson trained in the Department of Biochemistry at the University of Melbourne, Australia, where he gained a B.Sc. (Hons.) and a Ph.D. studying ocular lens proteins. From 1985 to 1987, Dr. Thomson was a Post-Doctoral Associate in the Department of Physics at MIT, where he explored the physics of rare phase equilibria of proteins at ultra-high-concentrations.

■ **Liu Yanhua**

Counsellor for the State Council of China
Former Vice Minister of Ministry of Science
and Technology
China



Professor Liu Yanhua, Counsellor for the State Council of China, former Vice Minister of Ministry of Science and Technology of China, got his Ph.D. from Chinese Academy of Sciences (CAS) in 1991, majoring in Natural Geography. Mr. Liu also served as other duties: President of Chinese Association of Geography, Standing Vice Chairman of Innovation Method Society in China, Standing member of Chinese Association of Sustainable Development, Member of the National Expert Committee on Climate Change in China, and Member of International Risk Governance Council (IRGC).

Prof. Liu Yanhua has made distinguished contributions to organizing and carrying out researches in many fields, such as Global Environmental Change, Land Use and Land Cover Change, Disaster Prevention and Reduction, Vulnerable Ecological System, Climate Change, Risk Governance, Sustainable Development and Think Tank research; Prof. Liu published dozens of papers on the domestic and international journals; and Prof. Liu led, designed, organized and participated in a series of projects to promote domestic/ international scientific and technological cooperation research.

- **Dr. Tran Ngoc Ca**
Director of Secretariat
National Council for Science and Technology Policy
Vietnam



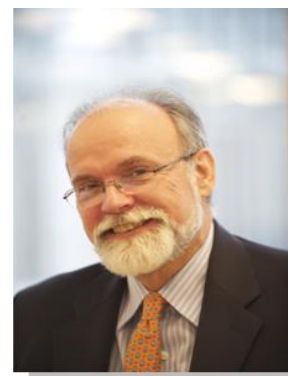
Dr. Tran Ngoc Ca is Director of Secretariat for the National Council for Science and Technology Policy, Personal Assistant to S&T Minister and Deputy Director, National Institute for Science and Technology Policy and Strategy Studies, Hanoi, Vietnam.

He has been working on projects on science, technology and innovation policy and management, information technology and electronic commerce for UNDP, UNIDO, World Bank, European Commission, ADB, CIDA, SIDA/SAREC, IDRC, etc.

He is involved in various teaching and consulting works. Dr. Ca was educated with an engineering degree at Moscow Mining University (former Soviet Union), master degree in Lund University (Sweden) and PhD at the University of Edinburgh (UK). He spent time in some US universities as UC Davis, UC Berkeley and Stanford as visiting Fulbright scholar.

He has published many articles, chapters in books and a book by Ashgate Publishing (UK): *Technological capability and learning in firms: Vietnamese industries in transition*. He is member of several professional associations in Vietnam and abroad.

- **Carlos A. Primo Braga**
Special Representative and Director
External Affairs, Europe
The World Bank



Carlos A. Primo Braga, a Brazilian national, is the Special Representative and Director for Europe, External Affairs (EXT) Vice-Presidency, The World Bank. In this capacity he supervises the World Bank's External Affairs (EXT) offices in Europe: Berlin, Brussels, Geneva, London, Paris and Rome. EXT's overall mandate is to increase understanding of and support for the World Bank Group's mission both at the global and country levels, and to leverage the World Bank Group's development impact through effective communication, advocacy, and diplomacy. Before assuming this position he was Director, Economic Policy and Debt, in the Poverty Reduction and Economic Management Network (PREM), The World Bank (2008-10). In 2010, he was also the Acting Vice President and Corporate Secretary of the World Bank Group and Acting Executive Secretary of the Development Committee.

Mr. Braga's previous responsibilities at the World Bank have included: Head, International Policy and Partnerships Group, PREM, anchoring strategic relationships with key shareholder groupings (e.g., G7/8, G20, G24, APEC, ASEM) and with institutions such as the IMF, Commonwealth Secretariat and OECD; Senior Adviser of the International Trade Department (2003-06), responsible for dialogue on international trade issues with European-based institutions, including the OECD, the European Commission, UNCTAD and the WTO; Senior Manager of the Informatics Program at the Information Solutions Group (2001-03). He was also the Director of the Development Gateway -- a web-based initiative for sharing information on development-related topics. From 1997 to 2001, he was the Manager of *infoDev* (the Information for Development Program), a multi-donor grant facility.

Prior to joining the Bank (1991), Mr. Braga served as a consultant to the Organization of American States (OAS; 1990). He was a Fulbright Scholar (1988/89) at the Paul Nitze School for Advanced International Studies (SAIS), The Johns Hopkins University where he also taught as a visiting professor (1988-98). Prior to that, he was an Assistant Professor of Economics, University of São Paulo and Senior Researcher at FIPE, São Paulo, Brazil. He also served as a lecturer on the economics of intellectual property rights at the World Trade Institute, University of Berne, Switzerland in the 1990s.

Mr. Braga received a degree in Mechanical Engineering (1976) from the Instituto Tecnológico de Aeronáutica (Brazil), and an MSc (1980) in Economics from the University of São Paulo, Brazil. He holds a PhD (1984) in Economics from the University of Illinois, Urbana-Champaign, USA.

- **Meoli Kashorda**
Executive Director
Kenya Education Network Trust
Kenya



Meoli Kashorda is currently the Executive Director of Kenya Education Network, the Research and Education Network of Kenya (www.kenet.or.ke) and a Professor of Information Systems at the United States International University, in Nairobi, Kenya (www.usiu.ac.ke).

His research interests are in the area of ICT readiness indicators and frameworks for developing countries, ICT adoption and innovations in higher education and business, Mobile commerce, and telecommunications regulations for development.

He previously served as the Dean, School of Business, USIU, for six years (1999 – 2005), has taught different ICT courses in different Kenyan universities for over 20 years, and has been a consultant for UNECA and UNESCO in the areas of ICT in trade and development, Mobile commerce, ICT in education.

Prof. Kashorda served in 2006-3008 as the Vice Chair on of the Task Force that developed the Kenya University Education Strategy with a focus on ICT, Science and Engineering.

He has a B.Sc. in Electrical Engineering from University of Nairobi and PhD in Electronic Systems in Engineering from Essex University in England. He is a member of IEEE and IET.

PARALLEL SESSION 6A: International co-operation – scaling up good practices

Moderator:

Mr. Per Koch, Head of the Science Project, Ministry of Education and Research, Norway

Panel:

Prof. Robin Batterham, President, Australian Academy of Technological Sciences and Engineering

Dr. Pernilla Sjöqvist-Rafiqi, Research Advisor, Swedish International Development Agency

Dr. Andreas Stamm, Senior Researcher and Policy Adviser, German Development Institute, Germany

Dr. Thomas Auf der Heyde, Deputy Director-General, International Co-operation and Resources,
Department of Science and Technology, South Africa

Mr. Shigeo Okaya, Director SATREPS, Japan Science and Technology Agency

- **Per M. Koch**
Head of the Science Project
Ministry of Education and Research
Norway



I am currently the head of the Science Project in [the Norwegian Ministry of Education and Research](#), a cross-unit project for research and higher education policy analysis.

From the fall of 2010 I have also been chair of the OECD STIG working party on mechanisms for international STI cooperation for global challenges.

In my previous position I was Director of analysis and strategic development at [The Research Council of Norway](#) (2006 - 2009).

From 2000 to 2006 I worked as a Senior Researcher, Research Director and later head of the Norwegian [STEP](#) institute for studies of innovation, now part of [NIFU STEP](#).

From July 1991 to May 2000 I was a Senior Executive Officer and Adviser on science and technology policy in the Norwegian Ministry of Education, Research and Church Affairs.

From September 1999 to 2000 I was a member of the secretariat of the Norwegian Commission on Higher Education.

Through my work at [STEP/NIFU STEP](#), the Ministry and the Research Council I have been actively involved in networking both on a national and international basis (Nordic co-operation, the OECD Working Party on Technology and Innovation Policy, the OECD Committee on Technology and Science Policy, the EU Trend Chart on Innovation, etc.)

I am considered a European expert on Internet searching and the search engine industry due to the site my wife and I developed: [Pandia.com](#).

■ **Robin Batterham**

President

Australian Academy of Technological Sciences and Engineering
University of Melbourne



Professor Batterham is Kernot Professor of Engineering at the University of Melbourne. He is also President of the Australian Academy of Technological Sciences and Engineering and until recently was Group Chief Scientist, Rio Tinto Limited. He has had a distinguished career in research and technology, in the public and private sectors in areas such as mining, mineral processing, mineral agglomeration processes, and iron making. He is inventor on over 20 patent families.

Professor Robin Batterham was Chief Scientist to the Australian Federal Government from 1999 to 2005 and remains on the Prime Ministers Science, Engineering and Innovation Council.

He has been President of the Institution of Chemical Engineers and the International Network for Acid Prevention and is President of the International Mineral Processing Congress as well as chairing the Australia India Collaborative Research Fund. He chairs the International Energy Agency Expert Group on Science for Energy. He is an elected Fellow (or Foreign Fellow) of the Royal Academy of Engineering, the National Academy of Engineering, the Swiss Academy of Technological Sciences, the Australian Academy of Science, the Australian Academy of Technological Sciences and Engineering as well as Fellow of several learned societies.

■ **Pernilla S. Rafiqui**

Research Advisor

Swedish International Development Cooperation Agency

(Sida)

Sweden



Pernilla S. Rafiqui is a Research Advisor at the Swedish International Development Cooperation Agency, Sida. She holds a Ph.D. in Economics and Economic Geography from Stockholm School of Economics.

Her academic work focuses on institutional theory, and the evolution of geographical clusters over time. At Sida's Unit for Research Cooperation Dr. Rafiqui is principal lead for the Focal Theme research and innovation, as well as project leader for a strategic evaluation of Sida's research support to innovation systems and clusters in Africa and Latin America conducted in 2010/2011.

At present, she is main rapporteur for INNOBIS, an in-house project on innovation in international development cooperation, which addresses questions of the role of donors and how Sida should best support innovation processes in low-income countries.

Dr. Rafiqui is responsible for Sida's support to GLOBELICS (the Global Network for Economics of Learning, Innovation and Competence Building Systems), as well as Sida's special call for Research on Research and Innovation held in 2010.

■ **Andreas Stamm**

Senior Researcher and Policy Adviser
Department of Competitiveness and Social Development
German Development Institute
Germany



Dr. Andreas Stamm, Economic Geographer, works as senior researcher and policy adviser in department “Competitiveness and Social Development” of the German Development Institute-Deutsches Institut für Entwicklungspolitik (DIE), leading German think tank in international cooperation policies.

His work focuses on a range of topics related to science and technology for sustainable development and to innovation driven dynamics in emerging economies and developing countries. He currently coordinates the international expert group of the OECD-CSTP project on Governance on International Co-operation on Science, Technology and Innovation for Global Challenges (STIG).

■ **Thomas Auf der Heyde**

Deputy Director-General
International Co-operation and Resources
National Department of Science and Technology (DST)
South Africa



Currently Deputy Director-General (International Cooperation and Resources) at the South African National Department of Science and Technology (DST), Dr. Auf der Heyde has held teaching, research and executive management posts at the universities of Johannesburg, the Western Cape, Cape Town, Berne (Switzerland), Cambridge and Princeton.

Following a successful early career as a structural chemist, he developed interests in science and technology policy, and research and higher education management, acting as a consultant and advisor in this field to a range of government bodies, civil society organisations and trades union. For example, he was instrumental in drafting the nuclear sections of the Green and White Papers on Energy (1995-7), participated in the national science and technology foresight exercise managed by the Department of Arts, Culture, Science and Technology (1998-9), and was a member of a panel that reviewed research capacity development programmes of the National Research Foundation (2000).

During 2002 and 2003, Dr Auf der Heyde served the DST as a National Contact Point for nuclear technology research under the auspices of the EU's Sixth Framework Programme, and was a member of the Ministerial Task Team advising the Minister of Education on research development grants (2006-8). During 2007, Dr Auf der Heyde was commissioned to draft a synthesis report of several reviews on the national research ranking system in conjunction with Prof Johann Mouton of the Centre for Research on Evaluation, Science and Technology (CREST) at the University of Stellenbosch, and also chaired the Research Audit panel during the institutional quality audit of the University of the Free State. During the period 1998-2004, Dr Auf der Heyde was closely involved in EU-funded projects on higher education community engagement activities. He has been a member of the boards of the Water Research Commission (2008-), the Africa Institute of South Africa (2008), and the former Council for Nuclear Safety (1995-2000).

Prior to joining the DST Dr Auf der Heyde held the post of Professor and Executive Director for Research and Innovation at the University of Johannesburg. In 2009 he was appointed as an Extraordinary Professor in the Centre for Research on Science and Technology at the University of Stellenbosch.

■ **Shigeo Okaya**

Director

Research Partnership for Sustainable Development Division
Japan Science and Technology Agency (JST)



Shigeo Okaya (June 15, 1961 Born in Kyoto Japan)

Educational:

85 BS Nuclear Engineering, Kyoto University
87 MS Nuclear Engineering, Kyoto University
93 MBA Stanford University

Professional

1987-1998 Worked in Nuclear Policy Division, International Affairs Division, Nuclear Waste Policy Division, Science and Technology Agency
1998-2001 Science/Nuclear Attache, Japanese Embassy Washington DC
2001-2003 Director, Office of International Cooperation Policy, MEXT
2003-2004 Director, Office of International Nuclear Affairs, METI
2004-2006 Director, Office of Evaluation, MEXT
2006-2008 Senior R&D Coordinator, ITER Organization
2008-2010 Director, Strategic Program Division, MEXT
2010-present Director, Research Partnership for Sustainable Development Division, JST

PARALLEL SESSION 6B: Technology transfer – towards new solutions?

Moderator:

Mr. Robert Wells, Directorate for Science, Technology and Industry, OECD

Panel:

Mr. Yuichiro Kawamura, Managing Director, Japan Intellectual Property Association

Mr. John Thomson, Vice President for Strategic Research Alliances, Vertex

Ms. Carol Jenkins, Senior Policy Advisor, International Policy Division, Intellectual Property Office, UK

Ms. Heloise Emdon, Program Leader: Innovation for Inclusive Development, International Development Research Centre, Canada

Mr. Waltraut Ritter, Research Director, Asia Pacific Intellectual Capital Centre, Hong Kong

■ **Robert C Wells**

Head, Biotechnology Unit
Directorate for Science, Technology and Industry
OECD



Robert Wells has more than twenty years experience in public policy, government relations, and international corporate development. His diverse career has given him expertise in business and policy issues associated with life sciences, health care, financial services and global markets. Robert joined the OECD in September 2009 to head the Biotechnology Unit in the Science and Technology Policy Division.

Prior to joining the OECD, Robert co-founded, HealthFutures, LLC, a Washington, DC and Boston-based consulting firm specialising in public policy issues impacting the emerging field of personalised, predictive and preventive medicine. HealthFutures clients included private sector companies, private investment firms, professional associations and advocacy groups.

Prior to co-founding HealthFutures, Robert served for seven years with Affymetrix, Inc, the world leader in microarray technology, as Vice President for Corporate Affairs and International Markets. In that role, he directed the company's internationally respected government relations program, regarded as among the most forward thinking in the life sciences and health care industry. Robert sought not only to represent the company's commercial and regulatory interests, but to open a wider dialogue with the patients, payers, researchers, clinicians, ethicists, legal experts, investors and other stakeholders in the modern healthcare ecosystem.

Robert is a founding member of the Personalised Medicine Coalition; he also played a leading role in the effort to enact greater federal privacy protection for genetic information and drove an international dialogue on innovative intellectual property regimes. Working in corporate development, he launched a successful business strategy to enter the China market and started innovative collaborations with world class research centres in Sweden, France, Singapore and Korea.

Before joining Affymetrix, Robert had a highly successful career with Citigroup where he served as Vice President for International Government Relations, coordinating public policy efforts in the company's almost-100 overseas offices. He has also taken time from his traditional career path to work in three presidential campaigns and to write two television pilots for Columbia/Tri-Star Television.

Robert did his undergraduate work at the University of North Carolina / Chapel Hill. He also holds a JD degree from the Wake Forest University School of Law. He is a member of the Board of Directors of the Personalised Medicine Coalition and Chairs the organisation's Public Policy Committee.

- **Yuichiro Kawamura**
Managing Director
Japan Intellectual Property Association
Japan



Mr. Yuichiro Kawamura joined Honda in 1980. Since 1982, he has been engaged mainly in IP administration, IP litigations and IP-related technical contracts such as license, joint development and venture investment at Honda R&D Co., Ltd. and Honda R&D Americas, Inc. (Torrance, CA). Established GE Honda Aero Engines, a JV for manufacturing turbo fan engines for a business jet application.

In 2007, established Guangzhou Honda Automobile R&D Company in China. Since 2007, he has been managing general IP activities in Honda global operations and he is currently General Manager of the Intellectual Property Division.

Mr. Kawamura was a member of the Research Commission on Patent System of the Japan Patent Office in 2010 and also the Managing Director of the Japan Intellectual Property Association since 2008.

- **John Thomson**
Vice President of Strategic R&D Networks
Vertex Pharmaceuticals Incorporated

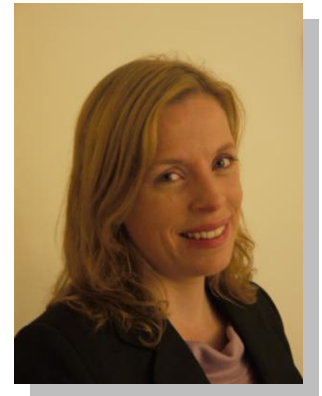


Dr. Thomson is Vice President of Strategic R&D Networks at Vertex Pharmaceuticals Incorporated, whereby he seeks to augment institutional drug R&D processes and maximize the liberation of intellectual property value through innovative partnership networks. This includes helping to coordinate the assessment and acquisition of novel technologies, creating new drug development schemas, especially for new markets and “poverty sector” neglected diseases, and designing the architecture and IP-liberation tools for multi-partner alliance networks.

Dr. Thomson joined Vertex in 1989 and later headed the company’s Cambridge (MA) research activities for a number of years. He has contributed to programs in immunoregulation, inflammation, anti-infectives, and oncology research. These programs yielded more than 30 drug development candidates, including three novel marketed drugs. He led Vertex’s HCV Research Project from 1993 to 1998, which discovered telaprevir (*Incivek*TM) a transformational direct-acting anti-HCV drug.

Dr. Thomson trained in the Department of Biochemistry at the University of Melbourne, Australia, where he gained a B.Sc. (Hons.) and a Ph.D. studying ocular lens proteins. From 1985 to 1987, Dr. Thomson was a Post-Doctoral Associate in the Department of Physics at MIT, where he explored the physics of rare phase equilibria of proteins at ultra-high-concentrations.

- **Ms. Carol Jenkins**
Senior Policy Advisor,
UK Intellectual Property Office
United Kingdom



Carol Jenkins is a Senior Policy Advisor at the UK Intellectual Property Office, leading on UK government policy on intellectual property (IP) with respect to trade, development and global challenges. This team works to ensure that the UK's international IP policy is coherent with both economic growth and development priorities. Current areas of focus include access to medicines, climate change and the role of IP in economic growth in different country contexts. Carol previously worked for the UK's Department for International Development on trade and development policy, specifically relating to free trade agreements and preferential market access for developing countries.

Prior to joining the civil service Carol was a technology project manager for several international investment banks. She holds an MSc in Development Studies from the London School of Economics and Political Science and an MA in Mathematics from the University of Cambridge.

- **Heloise Emdon**
Program Leader
Innovation for Inclusive Development
International Development Research Centre
Canada



Heloise Emdon leads Innovation for Inclusive Development under the Science and Innovation Program of the International Development Research Centre. She had lead Acacia, an IDRC program that worked with African partners to apply information and communication technologies (ICTs) to Africa's social and economic development.

Before joining IDRC, Emdon was a communications sector analyst for the Development Bank of Southern Africa, where she worked on telecom, broadcast, and other ICT-related projects. Emdon also worked as a social impact specialist in post-apartheid South Africa. During the crucial first decade of the country's Reconstruction and Development Programme, this involved analysis of social participation of beneficiary communities in the planning and implementation of public infrastructure in water, energy, transportation, communications, and agriculture. She also worked for 10 years as a journalist. She started her career in the scientific co-operation program at the Council for Scientific and Industrial Research in South Africa.

Emdon holds a master's degree in development studies from University of Witwatersrand, Johannesburg, South Africa.

For more on Emdon's work:

- [Her blog](#)
- Book review: [Race Against Time, by Stephen Lewis](#)
- [Address the AIDS pandemic in Africa](#)

■ **Waltraut Ritter**

Director, Knowledge Networks and Innovation
Asia Pacific Intellectual Capital Centre



Waltraut Ritter is Director, Knowledge Networks and Innovation with the Asia Pacific Intellectual Capital Centre, a Knowledge Economy Research Centre. She is also Director of Knowledge Dialogues which she founded in Hong Kong in 1997, specializing in applied relating to innovation, knowledge, and intellectual capital. She has worked in information and knowledge management since 1989, when she served as information management consultant for the United Nations Development Programme in Geneva and New York.

In recent years, she has focused on the knowledge economy and innovation initiatives for national and international agencies in the public sector, and has taken part and contributed to various projects and research conferences organised by the Commonwealth Secretariat, European Commission, UN, Asian Development Bank, OECD as well as national governments (Finland, India, China and Korea).

She is visiting faculty at the International School of Information Management in Mysore (India) and the University of Hong Kong. She was Professor for Knowledge Management at the Nanyang Technological University in Singapore. She holds an MA in Information Science, International Political Science and Sociology from the Free University of Berlin and an MBA from Anglia Ruskin University, Cambridge.

She has been involved the UN World Summit of Information Society process from 2003 to 2005 and subsequent UN Internet governance forum work as invited speaker on public sector information policies in Hong Kong at the IGF meeting in 2010. She is founding member of the New Club of Paris, a knowledge economy research and also serves on the Digital21 Strategy advisory board of the Hong Kong Government.

She is a regular contributor to OECD conferences and was an invited speaker for the OECD Conference on Intellectual Asset-Based Management in Tokyo (2006), an invited civil society representative at the OECD Ministerial Meeting on the Future of the Internet Economy in Seoul (2008), and the OECD World Forum on “Statistics, Knowledge, and Policy” in Busan (2009).

PLENARY SESSION 7: Science and innovation for inclusive development

Moderator:

Mr. Dominique Guellec, Head of the Country Studies and Outlook (CSO) Division Directorate for Science, Technology and Industry, OECD

Panel:

Dr. Sharifah Zarah Syed Ahmad, Deputy Secretary General, Ministry of Science, Technology and Innovation, Malaysia

Dr. Thane Kreiner, Executive Director, Center for Science, Technology, and Society, Santa Clara University

Dr. Ruth Ladenheim, Vice-Minister, Ministry of Science, Technology and Productive Innovation, Argentina

Prof. Anil K. Gupta, Founder, Honey Bee Network, Executive Vice Chair, National Innovation Foundation, India

Dr. Chris Wilson, Director of the Global Health Discovery program, The Gates Foundation

Dr. Nuttapon Nimmanphatcharin, Senior Director for Policy and Management, National Science Technology and Innovation Policy Office, Thailand

■ **Dominique Guellec**

Head of the Country Studies and Outlook (CSO) Division
Directorate for Science, Technology and Industry
OECD



Dominique Guellec is Head of the STI's Country Studies and Outlook (CSO) Division, created on 12 April 2010, which is responsible for co-ordinating the analysis of country-specific information on member and non-member countries across the directorate. This notably includes the OECD Reviews of Innovation Policy, the STI Outlook, the web-based Innovation Policy Platform (IPP) and work relating to innovation for development.

Mr. Guellec joined the OECD in 1995 and has worked in the Statistics Directorate and the Directorate for Science, Technology and Industry on statistics and quantitative economic analysis of research and development, innovation and growth. From 2004-2005, Mr. Guellec was Chief Economist of the European Patent Office (Munich). Mr. Guellec has authored several books and many articles on patents, innovation and economic growth. Before joining the OECD, Mr. Guellec worked at INSEE (Paris), where he was in charge successively of short-term analysis and forecast on external trade, and of surveys and analysis of innovation and growth.

Of French nationality, Mr. Guellec is a graduate from the École nationale de la statistique et de l'administration économique (ENSAE, Paris).

- **Sharifah Zarah Syed Ahmad**
Deputy Secretary General
Ministry of Science, Technology and Innovation
Malaysia



Dato' Dr. Sharifah Zarah received her Ph.D in Strategic Social Planning from the School of Politics and International Relations, University of Leeds, United Kingdom in 1997, after completing a Masters Degree in Personnel Management, specialising in Arbitration and Negotiations, from the Graduate School of Public and International Relations, University of Pittsburgh, USA.

Appointed as a Malaysian Diplomatic and Administrative Officer in 1981, she has been working in various Ministries, including in the Ministry of Defense, Education, National Unity and Social Development, Ministry of Foreign Affairs (Permanent Mission of Malaysia to the United Nations in New York), and the Ministry of Women, Family and Community Development.

In April 2009, Dato' Dr. Sharifah Zarah was promoted to Deputy Secretary General (Policy), in the Ministry of Science, Technology & Innovation. In MOSTI, she managed to build competence in matters and issues relating to science, technology and innovation. She is able to blend her experience and expertise in social development with science, technology and innovation and strategically position MOSTI as a Ministry that is not only focusing on the development of science and technology by and for the scientists and researchers only but a Ministry that champions and exploits S&T as tools for societal well being. She has managed to bring the human dimension and new insight into MOSTI's role and responsibilities by providing a deeper understanding of the interactions between technology, science, innovation and the society, and of the former's implications on societal well being and sustainable development.

In April 2010, she attended an intensive course on Innovation for Economic Development at Harvard Kennedy School of Government, USA and had gained new and relevant knowledge critical for her career development and in carrying out her responsibilities in tandem with the new demand and policy measures to ensure that Malaysia achieves high income status in an inclusive and sustainable manner.

With the announcement of the Year of Innovation in 2010, and the Year of Science 2011 and 2012, Dato' Dr. Sharifah Zarah was tasked to head the Steering Committees to promote and inculcate the culture of science, innovation and creativity in Malaysia. She has managed to mobilise and garner support of political masters and stakeholders as well as target groups, and successfully carried out Malaysia Innovative Programmes all over the country. She is now actively involved in the Popularisation of Science Programme and heading the Committee on the Formulation of National Innovation Policy and Science & Technology Policy.

As a recognition for her contributions to the country, Dr. Sharifah Zarah Syed Ahmad was conferred Federal Title by His Majesty the King of Malaysia (Darjah Kebesaran "Kesatria Mangku Negara" on 14 February 2007 and State Title by the Sultan of Kelantan (Darjah Kebesaran "Dato' Paduka Setia Mahkota Kelantan Yang Amat Terbilang") on 29th March 2008.

- **Thane Kreiner**
Executive Director
Center for Science, Technology, and Society
Santa Clara University



Thane Kreiner, Ph.D., is Executive Director of the [Center for Science, Technology, and Society](#) at Santa Clara University. The Center promotes the use of science and technology to benefit underserved populations worldwide. Its signature Global Social Benefit Incubator program has supported more than 140 socially-minded entrepreneurs build sustainable and scalable ventures that deliver essential goods and services to base of pyramid markets.

Thane was formerly Founder, President, and CEO of [PhyloTech, Inc.](#), (now Second Genome), which conducts comprehensive microbial community analysis for environmental and human health applications. He was Founder, President and CEO of [Presage Biosciences, Inc.](#), a Seattle-based company dedicated to bringing better cancer drugs to market. Thane was the start-up President & CEO for iZumi Bio, Inc. (now [iPierian](#)), a regenerative medicine venture based on the break-through iPSc (induced pluripotent stem cell) technology.

Prior to his efforts as a “parallel entrepreneur”, Thane spent 14 years in various senior leadership roles at [Affymetrix, Inc.](#), which pioneered the DNA chip industry. Thane earned his MBA from the Stanford Graduate School of Business; his PhD in Neurosciences from Stanford University School of Medicine; and his BS in Chemistry from the University of Texas, Austin.

- **Dr. Ruth Graciela Ladenheim**
 Vice-Minister of Science, Technology and Productive Innovation
 Argentina



- 1994: Master in Business Administration Institut d'Etudes Politiques. Paris, France.
- 1985: Doctor in Chemical Sciences. School of Exact and Natural Sciences. University of Buenos Aires.
- 1981: B.Sc. in Chemistry. School of Exact and Natural Sciences. University of Buenos Aires.

Professional Experience:

- 2008 – Today Vice-Minister of Science, Technology and Productive Innovation
 Secretary of Planning and Politics.
 Ministry of Science, Technology and Productive Innovation.
- 2003 – 2007: Coordinator of the Institutional Promotion Unit.
 Scientific and Technological Promotion National Agency.
- 2002 – 2003: Under-Secretary of Technology Transfer.
 School of Exact and Natural Sciences. University of Buenos Aires.
 Development of the «Companies Incubator» Project. (INCUBACEN).
- 2001 – 2002: Professor of Strategic Marketing for Managers.
 Institute for the Development of Business in Argentina (IDEA).
 Professor of the Post-Graduate Course of Costs for the Pharmaceutical Industry. Belgrano University. Argentina.
 Special consultant for technology companies.
- 2000: Dermatology Business Unit Manager. Johnson & Johnson Argentina.
- 1999 – 2000: Selective Channel Business Unit Manager. Johnson & Johnson Argentina.
- 1996 – 1999: Product Manager. Johnson & Johnson Argentina.
- 1995 – 1996: Scientific Communication Manager. Johnson & Johnson Argentina.
- 1993 – 1994: Research Implementation Manager. Pasteur Institute. Paris. France.

Research Experience:

1986 - 1992: Laboratory of Immune-Molecular Pharmacology.
Cochin Institute of Molecular Genetics.

1985 – 1990: Laboratory of Genetics and Biochemistry of Development.
Pasteur Institute. Paris.

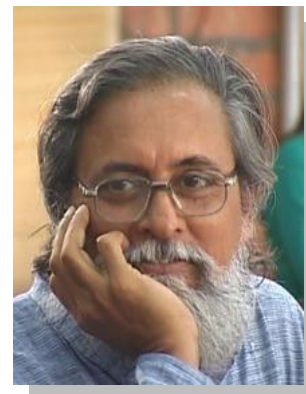
1981 – 1985: Experimental Medicine and Biology Institute (doctorate thesis).

Research Area: Biotechnology and Molecular Biology.

Publications: Over 15 articles in different magazines regarding the specialty.

■ **Anil K Gupta**

Executive Vice Chair, National Innovation Foundation,
Founder, Honey Bee Network
Professor, Indian Institute of Management



Mission: Expansion of global as well as local space for grassroots innovators to ensure recognition, respect and reward for them; blending excellence in formal and informal science; protection of intellectual property rights of the innovators but also expanding open source as a part of 'technology commons'; ethical issues in conservation and prospecting of biodiversity; linking innovations, investments and enterprise; creating knowledge network at different levels for augmenting grassroots green innovations and inventions in informal and formal sector. Helping organizations become more creative and innovative from bottom up and by learning from grassroots innovations.

Institution building: Established Society for Research and Initiatives for Sustainable Technologies and Institutions (SRISTI, 1993, www.sristi.org) and Grassroots Innovation Augmentation Network (GIAN, 1997, www.gian.org), two voluntary organizations to support the Honey Bee Network and to scale up and convert grassroots innovations into viable products respectively. Helped set up the National Innovation Foundation (NIF, 2000, www.nifindia.org), now an Institute of Department of Science and Technology, Government of India to make India innovative and creative society and a global leader in sustainable technologies. NIF has mobilized more than 140,000 innovations and traditional knowledge practices from over 545 districts of India, the largest database of its kind anywhere. Recently through student volunteers and without much external support, established a portal of 104,000 tech student projects at www.techpedia.sristi.org or www.techpedia.in to link the needs of informal sector and small and cottage industry with the young technology students besides increasing Innovation Quotient of the country (by preventing students do a repetitive project). Illustrative lists of problems in search of solution and innovation in search of augmentation are also listed here. Likewise sristi.org is creating a portal for street art Culturally Alive! India and another one for opens source educational software for children. Another multi-media multi language platform for collaborative product design for augmenting green innovations and social enterprises is also being developed. A twin centre for Grassroots innovation has been set up in collaboration with Tianjin University of Finance and Economics, China and an MOU for mutual co-operation has been signed in August 2011. Similar efforts are on with other developing countries to promote grassroots to Global (g2G) strategy for knowledge based approaches to poverty alleviation and employment generation.

■ **Chris Wilson**

Director of the Global Health Discovery program
The Gates Foundation



Dr. Chris Wilson, Director of the Global Health Discovery program, leads a team that targets fundamental scientific and technological advances in global health that could lead to new ways to prevent, treat, and diagnose disease.

Wilson joined the foundation in 2009 as Deputy Director, Vaccine Discovery and Human Biology, Global Health Discovery.

Wilson is a pediatrician and immunologist. He joined the faculty at the University of Washington in 1979 in the Infectious Diseases Division of the Department of Pediatrics and later served as head of the Division of Infectious Diseases, Immunology and Rheumatology. In 1989, he became one of the founding faculty members in the new Department of Immunology, and served as Chairman of the Department of Immunology and head of the graduate program in immunology from 1999-2009.

He has also served on a number of national advisory panels, including the Institute of Medicine Vaccine Safety Review Committee (2001-2004) and the National Advisory Council on Child Health and Human Development, NICHD, NIH, and he co-chaired the NIAID US Immunodeficiency Network Pilot Grant Review Committee. He is an elected fellow of the American Association for the Advancement of Science.

Wilson received a bachelor's degree from the University of California, Irvine and a medical degree from UCLA. He trained in pediatrics at Boston Children's Hospital /Harvard Medical School, served in the US Public Health Service, and then was a post-doctoral fellow in infectious diseases while performing immunology research at Stanford University.

■ **Nuttapon Nimmanphatcharin**
 Senior Director for Policy and Management
 National Science Technology and Innovation Policy Office
 Thailand



Experiences:

(1997 - 2002)

Freelance Consultant

- Provide consulting services on the following topics:
 - **Leadership Development Program** (Top Executive, Manager, Supervisory, Front-line Levels)
 - **Human Resources Development** (Learning and Development Program based on required competency, Talent Management, Succession Planning, Culture Change Management)
 - **Human Resources Management** (Sourcing, Selecting, Hiring, Designing Compensation and Benefits Package and Performance Appraisal System)
 - Being a **Trainer** and a **Facilitator** in a number of Learning and Development sessions; for example: Organization Development and Effectiveness, Leadership Development Program, Being Innovative People, Marketing Management, Modern Marketing Concepts, Customer Relationship Management, Branding Strategy etc.

(2002-2003)

JH Co., Ltd. – Electronic Appliance Company

Business Consultant

(2002-2005)

Siam University

Assistant to Dean (Faculty of Business Administration)

Assistant to Dean (School of Business Administration)

(2005-2006)

Fabirnet Co. Ltd (Fiber Optic)

Senior Financial Manager and

HR Consultant

(2006 – 2009)

Office of SMEs Promotion (OSMEP)

1. Former Director of Sectoral Strategy and Plan for
2. Former Director of SMEs Sectoral Warning and Analysis Department
3. Former Director of Technology and Information Centre
4. Former SMEs Flying Geese Program (PPP Project)

Work experiences *e.g.* Develop SMEs Plans and Strategies; SMEs Database Development; SMEs Economic Indicators; Conduct SMEs Research and Analysis for SMEs Strengthening; Design and Implement Performance Appraisal System for SMEs Policy; Design and Implement competitive Compensation and Benefits System for SMEs; Strategic SMEs Project (400 million bath project) Technology Roadmap for SMEs Project; Establish alignment between SMEs policy goals and SME goals through Cross-Functional Projects and outside-work activities; Partner with other departments to develop SME strategic short-term and long-term plans especially growth and investment strategies

2010 – Present National Science Technology and Innovation Policy Office (STI)
 Senior Director of Research and Policy Management

Responsible for a formulation of National Science Technology and Innovation Master Plan 2012-2021, National STI Action Plan 2012-2016, Regional STI Action Plan, STI Database Development, STI Indicator Development and Analysis, Design and Implement Performance Appraisal System for STI Policy, Community Innovation Project, STI Thailand Award Project, etc.

2010 – Present Siam University
 Adjunct Professor
 (Assistant to Dean - Faculty of Business Administration)
 (Assistant to Dean - School of Business Administration)

Academic records:

- 2002:** **Doctor of Philosophy,**
 Ph.D. in Strategic Management and Planning,
 (Banking and Financial Management),
 Swinburne University, Australia.
- 1999:** **Master of Business Administration / MBA,**
 (International Business and New Venture),
 Swinburne University., Australia.
- 1998:** **Master of Business in Management /MBM,**
 (Entrepreneurship and Management),
 Swinburne University, Australia.
- 1997:** **Postgraduate Diploma in Enterprise Management /GDM,**
 (Commercializing Innovation), Swinburne University., Australia.
- 1995:** **Bachelor in Business Administration /BBA,**
 University of Thai Chamber of Commerce
- 1992:** **M. 6, Sam Sen High School, Bangkok, Thailand.**

PLENARY SESSION 8: Better innovation policies for better lives – Conclusions and next steps

Moderator:

Mr. Ken Warwick, Chair OECD Committee on Industry, Innovation and Entrepreneurship (CIIE)

Panel

Mr. Dirk Pilat, Head of the Structural Policy Division, Directorate for Science, Technology and Industry, OECD

Mr. Ken Warwick, Chair Committee on Industry, Innovation and Entrepreneurship

Mr. Luis Sanz-Menéndez, Chair OECD Committee for Scientific and Technological Policy (CSTP)

Mr. Andrew Wyckoff, Director, Directorate for Science, Technology and Industry, OECD

- **Ken Warwick**
Chair
OECD Committee on Industry, Innovation
and Entrepreneurship (CIIE)



Ken Warwick has been chair of the OECD Committee on Industry, Innovation and Enterprise (CIIE) since 2007 and an active participant in the Committee's meetings since 1997. He was chair of the Committee's Working Party on Globalisation of Industry from 2004-2007.

Ken was until July 2011 the Director of Analysis in the UK Department for Business, Innovation and Skills. He was Director of Economics and Deputy Chief Economic Adviser in the department from 2003-2011 and served as Acting Director General, Economics between August - December 2010. He has also worked in a variety of senior economist roles in the Department of Trade and Industry and the Foreign and Commonwealth Office.

Ken was educated at Cambridge and Yale universities. His early career was spent in economic advisory roles in the FCO, DEFRA and at the IMF in Washington, where he was a staff member in the Research Department and the European Department.

In addition to his departmental duties, Ken was a member of the board of the Government Economic Service, the chair of several GES Committees and a non-executive director of DfID's Investment Committee. He has also served on a number of advisory boards for economic research programmes, including the Advanced Institute for Management Research (AIM).

■ **Dirk Pilat**

Head of the Structural Policy Division
Directorate for Science, Technology and Industry
OECD



Mr. Dirk Pilat, a Dutch national, is Head of the Structural Policy Division in the OECD Directorate for Science, Technology and Industry (DSTI). He is responsible for the OECD's Committee on Industry, Innovation and Entrepreneurship, which aims at the development of good policy practices in these policy areas.

He joined the OECD in February 1994 and has worked on many policy issues since then, including the OECD Innovation Strategy, how to draw greater benefits from information technology for economic growth, how to strengthen growth performance in OECD economies (the OECD Growth Project), how to strengthen the performance of the services sector, as well as work on climate change and green growth, labour markets, product market regulation, productivity and entrepreneurship. He was Head of the Science and Technology Policy Division from 2006 to January 2009.

Mr. Pilat holds a PhD in Economics from the University of Groningen, in the Netherlands.

- **Luis Sanz-Menéndez**
Chair
OECD Committee for Scientific and Technological
Policy (CSTP)



Luis Sanz-Menéndez, a Spanish national, is CSIC Research Professor and Director of the Institute of Public Goods and Policies (IPP) from the CSIC (National Research Council) in Madrid and he has been chair of the OECD Committee for Scientific and Technological Policy (CSTP) since late 2007.

He also has worked in a variety of advisory roles to the Spanish authorities at the Ministries of *Education and Science* and *Science and Innovation* since 2004. He has been member of the GRENCYT, where it was elaborated the National Strategy for Science and Technology (2007-2015), which was approved by The Conference of Government Presidents (National and Regional) and the 6th. National R&D and Innovation Plan (2008-2011). Previously he was Deputy Director General for Research Planning and Monitoring at the Ministry of Science and Technology and responsible of the Spanish National Research, Technology and Innovation Plan.

He was also involved in several international S&T policy advisory activities (among others: the European Commission (Directorate General for Research); OCDE; UNESCO; Inter-American Development Bank (IDB); UNIDO, COST, etc.) and he has also been engaged with developing analysis and advising for science and innovation policy making entities for science and technology in several countries, especially in Latin American countries.

Luis received his PhD at the Complutense University in Madrid in Political Sciences and Sociology and he has been postdoctoral fellow and visiting researcher in various universities such as UC Berkeley, CSI-École des Mines in Paris, University of Twente in The Netherlands, GeorgiaTech in Atlanta, etc.

Dr. Sanz-Menendez has published numerous papers on science and innovation policies in leading international journals such as *Research Policy*, *Scientometrics*, *Journal of Technology Transfer*, *Research Evaluation*, *Science and Public Policy*, *Technological Forecasting and Social Change*, *International Journal of Technology Management*, *International Studies on Management and Organization*, *Regional Studies*, etc. and written or edited books and policy reports, including *Análisis sobre ciencia e innovación en España* (L. Sanz-Menéndez & L. Cruz-Castro, eds. (2010), Madrid:FECYT, 849 pags), *Conocer para transformar: Producción y Reflexión sobre ciencia, tecnología e innovación en Iberoamerica* (H. Vessuri, P. Kreimer, A. Arellano & L. Sanz Menéndez, eds (2010). Caracas: UNESCO-IESALC), *Management and New Technologies*, (C.E. Garcia & L. Sanz-Menéndez, eds. (1998). Brussels: CEC-COST, 560 pp.).

- **Andrew W. Wyckoff**
Director
Directorate for Science, Technology and Industry
OECD



Andrew W. Wyckoff is the Director of the OECD's Directorate for Science, Technology and Industry (STI) where he oversees OECD's work on innovation, business dynamics, science and technology, information and communication technology policy as well as the statistical work associated with each of these areas.

Mr. Wyckoff was previously Head of the Information, Computer and Communications Policy (ICCP) division at the OECD which supports the organisation's work on information society as well as consumer policy issues. Before heading ICCP, he was the head of STI's Economic Analysis and Statistics Division which develops methodological guidelines, collects statistics and undertakes empirical analysis in support of science, technology and innovation policy analysis.

His experience prior to the OECD includes being a program manager of the Information, Telecommunications and Commerce program of the US Congressional Office of Technology Assessment (OTA), an economist at the US National Science Foundation (NSF) and a programmer at The Brookings Institution.

Mr. Wyckoff is a citizen of the United States, holds a BA in Economics from the University of Vermont, and a Master of Public Policy from the JFK School of Government, Harvard University.

Launch of the OECD-SIDA Project on Innovation, Research and Higher Education for Development (IHERD)

Mr. Andrew Wyckoff, Director, Directorate for Science, Technology and Industry, OECD

Mr. Anders Ahnlid, Ambassador to the OECD, Sweden

Dr. Pernilla S. Rafiqui, Research advisor, Swedish International Development Cooperation Agency, Sida, Sweden

Ms. Ebba Dohlman, Coordinator for OECD Development Strategy, OECD

Mr. Richard Yelland, Head of the Education Management and Infrastructure Division, Directorate for Education, OECD

- **Andrew W. Wyckoff**
Director
Directorate for Science, Technology and Industry
OECD



Andrew W. Wyckoff is the Director of the OECD's Directorate for Science, Technology and Industry (STI) where he oversees OECD's work on innovation, business dynamics, science and technology, information and communication technology policy as well as the statistical work associated with each of these areas.

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Mr. Wyckoff is a citizen of the United States, holds a BA in Economics from the University of Vermont, and a Master of Public Policy from the JFK School of Government, Harvard University.

■ **Anders Ahnlid**

Ambassador to the OECD and UNESCO
Sweden



Anders Ahnlid is since September 2011 Sweden's ambassador to the OECD and UNESCO. 2005-2011 he was Director-General for Trade in the Swedish Ministry for Foreign Affairs and, among other things, Sweden's representative in the EU Trade Policy Committee, in which the European Commission consults EU Member States on trade matters.

Previously, he has held the positions of Minister and head of the Department of Trade and Economic Affairs at the Embassy of Sweden to the USA in Washington DC. He has also been head of the Department for International Trade Policy at the Ministry for Foreign Affairs in Stockholm and Deputy Permanent Representative of Sweden to the OECD 1995-1998.

Mr. Ahnlid formed part of Sweden's negotiating team in the Uruguay Round of multilateral trade negotiations, including during his posting in Geneva 1991-1995. He started his professional career as a trade policy analyst at Sweden's National Board of Trade. He is the author of numerous articles on trade policy and trade negotiations.

■ **Pernilla S. Rafiqui**

Research Advisor

Swedish International Development Cooperation Agency
(Sida)

Sweden



Pernilla S. Rafiqui is a Research Advisor at the Swedish International Development Cooperation Agency, Sida. She holds a Ph.D. in Economics and Economic Geography from Stockholm School of Economics.

Her academic work focuses on institutional theory, and the evolution of geographical clusters over time. At Sida's Unit for Research Cooperation Dr. Rafiqui is principal lead for the Focal Theme research and innovation, as well as project leader for a strategic evaluation of Sida's research support to innovation systems and clusters in Africa and Latin America conducted in 2010/2011.

At present, she is main rapporteur for INNOBIS, an in-house project on innovation in international development cooperation, which addresses questions of the role of donors and how Sida should best support innovation processes in low-income countries.

Dr. Rafiqui is responsible for Sida's support to GLOBELICS (the Global Network for Economics of Learning, Innovation and Competence Building Systems), as well as Sida's special call for Research on Research and Innovation held in 2010.

■ **Ebba Dohlman**

Senior Advisor, Office of the Secretary General
Horizontal Programme on Policy Coherence for Development
(PCD)
OECD



Senior Advisor in the Office of the Secretary General for the Horizontal Programme on Policy Coherence for Development (PCD) since 29 March 2010.

Ms. Dohlman, a Swedish national, has been in the OECD since 1985. Since her appointment as Senior Advisor, she has helped shape and take forward a new OECD approach to development which culminated in endorsement at OECD's 50th anniversary meeting this year of a *Framework for an OECD Strategy on Development*.

Previously, she was Senior Counsellor in the Heiligendamm L'Aquila Process (HAP) Support Unit where she was responsible for the development and energy pillars of the dialogue between the G8 and G5. She has also worked as Advisor in the Office of the Secretary-General, supporting the horizontal work on enhanced engagement, development, relations with international organisations and the G8. She began her OECD career in the Trade Directorate and moved to the Development Co-operation Directorate in 1991 where she provided key inputs into the work on Environment and Development, Aid for Trade and Pro-Poor Growth and Agriculture. During this time, she participated in the WTO-hosted, inter-agency *Integrated Framework Working Group on Trade-Related Technical Assistance* together with WTO, UNCTAD, ITC, World Bank, IMF and UNDP, and helped to establish a role for the OECD in monitoring Aid for Trade.

Prior to coming to the OECD she worked as a trade policy consultant at the GATT (WTO), UNCTAD and the Textiles Importers Association of Sweden in the context of efforts to reform the Multi-Fibre Arrangement. She holds an M.Sc. and Ph.D. from the London School of Economics and a B.A. from Tufts University.

■ **Richard Yelland**

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Richard Yelland is Head of the Education Management and Infrastructure Division in the Directorate for Education at the OECD (Organisation for Economic Co-operation and Development). This division manages both the Programme on Institutional Management in Higher Education (IMHE) and the Centre for Effective Learning Environments (CELE).

The Directorate's mission is to assist Members and Partners in achieving high quality lifelong learning for all that contributes to personal development, sustainable economic growth and social cohesion.

The objective of IMHE is to analyse the governance and management of higher education institutions and the development of their role in society and thereby to contribute to the improvement of higher education.

The mission of CELE is to improve education by maximising the social and economic benefits of investment in teaching and learning environments and associated technologies.

Richard joined OECD in 1986 from the then Department of Education and Science in the United Kingdom where he held a range of posts in educational policy and administration. From January 1997 to March 1998 Richard was seconded to the University of Adelaide, South Australia.

Richard was born and educated in England, and has a degree from Cambridge University. He is married to Anne and they have three children.