

## GLOBAL SCIENCE FORUM 50<sup>TH</sup> MEETING

### HIGH-LEVEL SYMPOSIUM

MONDAY 22 APRIL 2024

### Biographies

#### Round table: Evolution of international scientific collaboration in the last 25 years and challenges/drivers for coming years

##### Peter Tindemans



**Peter Tindemans** chaired the OECD MegaScience Forum from 1992-1999. He holds a PhD in Theoretical Physics from Leiden University, and was responsible for Dutch research and science policy from 1991-1999, covering all fields of science. As an independent consultant since 1999, he is still very engaged in developing European policies for science, technology and innovation in general, working with ministers and former EUROHORCS, in regional innovation efforts and in European policies for Research Infrastructures, e.g., as chairman (2000-2010) of the European Neutron Spallation Source now nearing completion in Lund. He was a member of the International Scientific Site Advisory Committee for the Square Kilometre Array. In the Netherlands he has been responsible for the merger of all major

Dutch biodiversity collections into the Naturalis Biodiversity Centre, which is a natural history museum, a large research centre and house one of the world's largest biodiversity collections. A founding member of EuroScience, he sat many years on its Governing Board and was most recently Secretary General of EuroScience from 2012 to 2019.

##### John Boright



**John P. Boright** chaired the OECD Global Science Forum from 1999 to 2004. He is currently the Director of the Office of International Affairs of the US National Academies (comprising science, engineering, and medicine). International activities of the National Academies are very diverse, and include cooperation with national, regional, and global groups of counterparts from all regions of the world. A central goal of these cooperative activities is to build the capacity of the science, engineering, and medical communities to successfully engage in meeting local, national, and global needs, and to inform policy making at all these levels. Dr. Boright has served in several governmental positions: in the Office of Science and

Technology Policy in the Executive Office of the President; in the Department of State overseeing U.S. science and technology agreements with other countries, international space policy and program matters, and the science officer system at U.S. Embassies; as Director of International Programs, at the National Science Foundation; as Counsellor for Scientific and Technological Affairs at the U.S. Embassy in Paris; and in the U.S. Arms Control and Disarmament Agency, and the U.S. Mission to the International Atomic Energy Agency. He received a B.A. (high honours) and Ph. D. in physics from Cornell University.

## Hiroshi Nagano



**Hiroshi Nagano** was chair of the OECD Global Science Forum from 2011 to 2015. He is currently Advisor at the Engineering Academy of Japan. After graduating from the faculties of Engineering and Law at Keio University, he joined the Ministry of Education, Culture, Sports, Science and Technology (MEXT). At MEXT, he functioned as Director General for International Affairs and headed up the National Institute of Science and Technology Policy (NISTEP). Then, he served as Executive Director at the Japan Science and Technology Agency (JST) and Professor at the National Graduate Institute for Policy Studies (GRIPS). His interests lie in science and technology policy-making, particularly encouraging young scientists and promoting international cooperation. He is a Fellow at the American Association for the Advancement of Science (AAAS), and a Life Fellow at the Engineering Academy of Japan.

## Gabriele Fioni



**Gabriele Fioni** was the chair of the OECD Global Science Forum from 2016 to 2021. Gabriele Fioni is a Nuclear Physicist by training, having graduated in Physics at the Bologna University (Italy) and he obtained his Doctorate at Ghent University (Belgium). He is currently (since 2020) Rector, Regional Commissioner for Higher Education, Research and Innovation for the Auvergne Rhône-Alpes region in France. From 2016 to 2019, he was Director for International Corporate Cooperation, with responsibility for the International Thermonuclear Experimental Reactor (ITER) project, and Deputy Director of CEA-Tech, the technology research division of the French Atomic and Alternative Energies Commission (CEA). He was the vice-chair of the Fusion for Energy European domestic Agency for ITER and chair of its Technical Advisory Panel. From 2012 to end 2015 he was Director of the Physical Sciences Division that was in charge of all Physics and Chemistry fundamental research at CEA. From 2008 to 2012, he was Scientific Director and Deputy Director General for Research and Innovation at the French Ministry for Higher Education and Research. Prior to that he held several senior research, strategic and managerial positions as CEA.

## Amanda Collis



**Amanda Collis** is the present chair of the OECD Global Science Forum. She is currently Interim Deputy Executive Chair at the Biotechnology and Biological Sciences Research Council (BBSRC). As such, Amanda's role focuses, among other priorities, on high-level strategic thinking for the long-term development of bioscience research and innovation strategy, the design and development of major strategic themes working with national and international partners, and international representational duties including for the OECD, the European Molecular Biology Laboratory and the Human Frontiers Science Programme. Amanda studied for a degree in plant sciences and PhD in fungal molecular biology before joining BBSRC in 1998. She has extensive experience of the UK research councils with strong interests in basic and strategic research, multidisciplinary approaches, funding partnerships and research infrastructures. Amanda has broad experience in UK science policy, including time spent on

secondment to the Houses of Parliament, Research Councils UK and detached duty to the British Consulate General, Boston where she worked alongside the UK government's Science and Innovation Network. Amanda is a Fellow of the Royal Society of Biology.

#### **John Schneider**



**John Schneider** is currently a Senior Advisor at the Global Earthquake Model (GEM) Foundation. He served as GEM's Secretary General from February 2016 to July 2023. He previously represented Australia on the GEM Governing Board from 2010 to 2015, serving as Chair from 2013 to 2015. John also served as a member of the UN Office for Disaster Risk Reduction's (UNDRR) Science & Technology Advisory Group from 2012 to 2016. He represents GEM in a number of forums including the Insurance Development Forum, the Resilient Planet Hub, and on global disaster risk reduction initiatives such as with the World Community of Geological Surveys and the UNDRR. John received a PhD in geophysics from the University of Wisconsin (USA) and subsequently held positions in academia

and private industry in the US. In 2000, John relocated with his family to Australia to lead the development of a urban risk assessment capability for the Australian government, which evolved to include bush fire, terrorism, tsunami, volcanic eruption, tropical cyclone wind, flooding and sea level rise. Later, he initiated capacity building programs in multi-hazard risk assessment in partnership with developing countries in Southeast Asia and the Pacific. He has been based in Italy since February 2016, collaborating with GEM.

### **Research infrastructures and international collaboration for addressing complex/wicked challenges**

#### **Diana Stepanyan**



**Diana Stepanyan** is Director of External Affairs at the European Research Infrastructure on Highly Pathogenic Agents (ERINHA). She joined ERINHA since its set-up in 2017. She previously worked for the ERINHA's coordinating entity, INSERM, during the RI's preparatory phase and served as Deputy Coordinator and Advocacy Manager. She previously worked in public policy and governmental affairs at European level for the vaccine industry companies Sanofi Pasteur and Merck; as well as in international UNDP projects in CEE. Ms Stepanyan holds a University Degree in Political Sciences and Master's degrees in European studies; Communication and Brand management.

#### **Birgit Gemeinholzer**



**Birgit Gemeinholzer** is full Professor of botany at the University Kassel (Germany). Since 2022, she also chairs the science advisory board and the executive board of the Global Biodiversity Information Facility (GBIF). She obtained her PhD at the University Heidelberg in 2000 (on the

reconstruction of the molecular phylogeny of the Solanaceae) and has held various academic positions since then. Birgit Gemeinholzer chaired the working group on biodiversity research data (DFG SK Biodiversity Research, 2010-2016) and has been member of a number of committees related to biological data: the advisory board of the German Federation for Biological Data, the steering Committee e-Infrastructure Initiative Belmont Forum for the DFG, the foundation board Zoological Research Museum Alexander Koenig etc. She is also founding member of the steering Committee of the Global Genome Biodiversity Network.

### Nicolas Arnaud



**Nicolas Arnaud** is currently Director of the National Institute of Universe Sciences at CNRS. Geologist by training, he has devoted his research activities to understanding the processes of deformation of continents and formation of reliefs linked to plate tectonics. In 2009, he founded the Montpellier Mediterranean Environmental Research Observatory, which he directed until 2012, and which is dedicated to observing the Mediterranean environment and natural hazards. Vice-President of the University of Montpellier 2 from 2008 to 2012, he was appointed in 2012 Deputy Scientific Director of the CNRS National Institute of Universe Sciences, in charge of the field of Continental Surfaces and Interfaces. In this position he particularly supported the construction of research and observation infrastructures for critical zones of the Earth, in France and in Europe.

### Pearl Dykstra



**Pearl Dykstra** is professor emerita of Empirical Sociology at Erasmus University Rotterdam. She is the Scientific Director of ODISSEI, the Open Data Infrastructure for Social Science and Economic Innovations in the Netherlands. In 2015 she was appointed as member of the group of European Commission Chief Scientific Advisors, and served as its Deputy Chair from 2016 to 2020. She currently holds the position of invited expert to the European Commission. She is an elected member and previous Vice-President of the Netherlands Royal Academy of Arts and Sciences (KNAW), fellow of the Gerontological Society of America, and elected member of Academia Europaea. She served on the governing board of the International Science Council from 2018-2021 and became an elected Fellow in 2022.

### Jose Luis Martinez



**Jose Luis Martinez** is a physicist by training, and since 2014 the Executive Director at European Spallation Source-Bilbao. He is also the current chair of the European Strategic Forum for Research Infrastructures (ESFRI). His academic and research career includes positions such as Research Professor Appointment Instituto de Ciencia de Materiales de Madrid (CSIC), Research Scientific Staff of the Institut Laue Langevin (ILL), and Assistant Professor Appointment at U.A.M. Spain. He has also taken up positions of management experience, as a Member of the Neutron



Scattering Advisory Committee of the Spanish Ministry of Science and Technology (1987-2011), a Member of the Synchrotron Radiation Advisory Committee (1987-2007), a Member of the Spanish delegation at the Council of the European Synchrotron Radiation Facility (ESRF), and a Member of the Executive Committee of the project ESS-Bilbao. He has been an advisor of the Spanish Ministry of Science and Technology for Large Infrastructures (ESRF, ILL, ESA, ESO) and a member of the “Rector Committee” of the Barcelona Supercomputing Centre (BSC). From 2007 to 2012, he was Associate Director of the Institut Max von Laue-Paul Langevin (ILL) in Grenoble. He is member since 2017 (presently in a second mandate) of the “Commission nationale d’évaluation (CNE2) of the French Office parlementaire d’évaluation des choix scientifiques et technologiques (OPECST)”.

### Kei Koizumi



**Kei Koizumi** is a longtime science-policy leader, science policy researcher, and social scientist in Washington, DC. Since January 2021, he has served at the White House Office of Science and Technology Policy (OSTP), currently as Principal Deputy Director for Science, Society, and Policy and previously as Chief of Staff and Acting Director. He is also Acting Executive Director of the National Science and Technology Council. Immediately before the Biden-Harris Administration, he served on the Biden-Harris Transition Team as the lead for the National Science Foundation (NSF) and a member of the OSTP transition. Previously, he served as Senior Advisor for Science Policy at the American Association for the Advancement of Science (AAAS) between 2017 and 2019. He was Assistant Director for Federal R&D, and Senior Advisor for the National Science and Technology Council, at OSTP from 2009 to 2016 in the Obama Administration. Before that, he was the longtime Director of the AAAS R&D Budget and Policy Program. Mr. Koizumi received his MA in International Science and Technology Policy at the George Washington University (where he has taught science policy) and his BA from Boston University in Political Science and Economics. He is a Fellow of the AAAS.

## Research infrastructures as a catalyst for future global and inclusive scientific collaboration

### Marcia Barbosa



**Marcia Barbosa** is Secretary (Deputy Minister) of Strategic Policies and Programs at the Brazil Ministry of Science, Technology and Innovation (MCTI). She is also full professor at the Federal University of Rio Grande do Sul, full member of the Brazilian Academy of Sciences and member of the World Academy of Sciences (TWAS). A physicist by training, her research expertise is on condensed matter physics, mainly in water and in the use of its anomalies for investigating physical and biological processes. For her study of water anomalies, she won the L’Oreal-Unesco Prize for Women in Physical Sciences and the Claudia Prize in Science, both in 2013. Her work in graduate school won the Anísio Teixeira da Capes Award in 2016 and, for her work in favour of Brazilian science, she received the Medal of Scientific Merit in the rank of Commander from the Presidency of the Federative Republic of Brazil in 2018. In 2020, she was recognized by UN Women as one of the women who changed the world with science and in

2021, she was awarded the Silvio Torres Medal by the Research Support Foundation of the State of Rio Grande do Sul (Fapergs).

#### **Masaaki Nishijo**



**Masaaki Nishijo** is Deputy Director-General of the Science and Technology Policy Bureau at the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT). Masaaki Nishijo has a long experience in science and technology policy issues. Prior to his current position, he held various roles in MEXT such as Deputy Director-General of the Higher Education Bureau (2022-24), Director of the Management and Coordination Division at the Minister's Secretariat (2021-2022), Director of the Student Support and Exchange Division at the Higher Education Bureau (2019-2021), Director at the University-Industry Cooperation and Regional R&D Division, Science and Technology Policy Bureau (2018-2019). He also

held several positions related to technology policy at the Atomic Energy Division, at the Material Science and Nano-Technology Development Division or at the Office of Nuclear Fuel Cycles, Research and Development Bureau and he was Director for Cross-ministerial Strategic Innovation Promotion Program (SIP), at the Cabinet Office (2014-2015). He also was First Secretary (science section) at the Embassy of Japan in Washington DC from 2004 to 2007. Masaaki Nishijo holds a Master's Degree of Sanitary and Environmental Engineering from Hokkaido University.

#### **Byung-Seon Jeong**



**Byung-Seon Jeong** is President of the Korea Institute of Science and Technology Evaluation and Planning (KISTEP). Prior to joining KISTEP, he was Vice Minister, Ministry of Science and ICT from 2019 to 2021. Byung-Seon Jeong has a 30-year long experience in science and innovation policy and in managing science institutions: President of National Science Museum in 2019, he was prior to this Deputy Minister, Office of R&D Policy, Ministry of Science and ICT from 2017 to 2019 and held a number of positions within the ministry (Director, 2012-2014 and then Director-General, 2014-2017). He also was Programme Coordinator at the World Nuclear Association (2010-12) and Project manager in the Science and Technology Policy Division of the OECD Directorate for Science, Technology and Industry (2003-2006). Byung-Seon Jeong obtained his PhD in Science and Technology Policy

Studies in 2004 at the Science and Policy Research Unit (SPRU) of Sussex University (UK).

#### **Imraan Patel**



**Imraan Patel** is currently Deputy Director-General responsible for research development and support at the South Africa Department of Science and Innovation (DSI), which he joined in 2006. At DSI, he is responsible for strategically driving a portfolio of investments and policies that enable the leveraging of science, technology and innovation. This includes investments in human capital development and knowledge production, science engagement, the basic sciences, open science, research infrastructures and science missions. He was a past board member of the Water Research

Commission, MINTEK (a minerals processing and metallurgical engineering research organisation), Trade and Industrial Policy Strategy (TIPS), and the Southern African Science Centre for Adaptive Land Management (SASSCAL). He is also the South African representative on the governing board of the Transformative Innovation Policy Consortium (TIPC). Prior to joining the DSI, he worked at the Centre for Public Service Innovation, an agency of government supporting innovation in the delivery of public services as well as the Department of Public Service and Administration. He began his working life with a five-year stint at the Workplace Information Group (WIG), a non-governmental organisation supporting trade union with health and safety support services followed by three years during the formative years of the National Labour and Economic Development Institute (NALEDI), a think tank to COSATU.

### **Claire Giry**



**Claire Giry** is Director General of Research and Innovation at the French Ministry for Higher Education and Research (MESR) since 2021. A former student of the Ecole Normale Supérieure (ENS) of Lyon, she holds a Doctorate in molecular and cellular biology from the University Claude Bernard, Lyon. She has extensive experience in research and innovation management and policies. On the national level, Claire Giry was technical advisor to the Prime Minister, in charge of Higher Education and Research between 2007 and 2009, then head of the joint service for the two General Directorates of the MESR at the time of the creation of the “investments programme for the future”. She led the “Centres of Excellence” programme

at the General Investment Commission in 2018. She has also held several management positions within Inserm and CEA (Director of Partnerships at Inserm, Director of the CEA research centre of Fontenay-aux-Roses and Deputy Director of Fundamental Research at CEA). More recently and until 2021, she was Deputy Director General of the National Institute of Health and Medical Research (Inserm).