

SCIENCE EUROPE

NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA

The Paradigm Shift in Science and its Effects in Addressing Global Challenges and Achieving Sustainable Development

Science Europe–NSFC
Joint Policy Workshop

WEDNESDAY 16 NOVEMBER 2022
THURSDAY 17 NOVEMBER 2022

09.00–11.00 CET // 16.00–18.00 CET
08.30–11.30 CET // 15.30–18.30 CST



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Background

As a new round of scientific and technological revolution has started, and societal and industrial transformations are more rapid than ever, global science and the paradigm that underlie research and innovation is undergoing profound changes. The content of research has evolved and focuses more and more often on dynamic and ever changing systems, structures, and phenomena. Research methods have shifted and diversified and now encompass a broader range of practices from qualitative analysis to quantitative prediction and an even broader range of tools such as new data processing techniques and artificial intelligence. Research focus have evolved from single subject to interdisciplinarity, and research domains expand from the knowledge blocks divided in disciplines to knowledge systems. The traditional research processes are challenged by new complexities in sciences, and the pursuit of disciplinary excellence is now complemented by new approaches such as multiscale and multi-level (inter)disciplinary investigations to explore and address joint problematics. This new paradigm in sciences, including the new scientific and technological revolution, has developed in an evolving research and innovation context with increased competition between the research and innovation powers. However, we shall also seize the opportunity of this paradigm shift to jointly identify or develop solutions to the global challenges, including achieving sustainable development.

Science, research and innovation are playing an increasingly important role to meet the new expectations arising from the challenges of sustainable development, economic prosperity and social cohesion. The Covid-19 pandemic, the natural disasters, such as the wild fires and the floods that rampaged through Europe last year and Pakistan this year, but also other unprecedented challenges experienced by the world, have posed common problems for the whole humanity. It is our responsibility as major national research funding agencies, research councils, and research performing organisations to work together to address these common global challenges and respond to the paradigm shift in science. Around the world, research funders have taken concrete actions in adjusting their portfolio and restructuring internal layout to better cope with this situation. In the USA, NSF created a new Directorate called Technology, Innovation and Partnerships (TIP) to accelerate the development of new technologies and products that improve Americans' way of life, grow the economy, create new jobs, address the most pressing societal challenges of our time, and strengthen and sustain U.S. competitiveness. In UK, UKRI was launched in 2018 by bringing together the former seven disciplinary research councils, but also Research England, and Innovate UK. All across Europe, Research Funding and Research Performing Organisations have launched new research programmes that gather a diversity of stakeholders to develop solutions to societal challenges and achieve the Sustainable Development Goals. In China, NSFC has initiated a comprehensive reform since the new leadership took office in 2018. A systematic reform plan was formulated, with identifying funding categories, improving evaluation mechanisms and optimising layout of research areas as the core, and "strengthening three aspects, improving six mechanisms, highlighting two priorities and optimising seven areas of funding management" as the key measures. The NSFC reform has been progressing smoothly, and some key tasks already led to initial results. In 2020, NSFC established the Department of Interdisciplinary Sciences (DIS) dedicated to supporting interdisciplinary research, which is an important step to promote interdisciplinary science in China. In May 2022, NSFC announced the Sustainable Development International Co-operation Program (SDIC) to call for concerted efforts of the global scientific community in achieving the UN SDGs. Meanwhile, in recent years, NSFC has been actively holding

strategic dialogues and workshops to communicate and exchange experiences with partners and colleagues around the globe on multiple occasions.

In the meantime, Science Europe, the association gathering major public organisations that fund or perform excellent, ground-breaking research in Europe, also initiated new reflections linked to the evolution of the research and innovation ecosystem. In their effort to jointly push the frontiers of how scientific research is produced and delivers benefits to society, Science Europe and its members are working on actions to foster the Green and Digital Transition and achieve a Net-Zero transition. These actions include, but are not limited to:

- interdisciplinary research to address the complexity of the environmental challenges,
- development of the next generation of students and researchers,
- better interface between research and policymaking.

Science Europe also leads reflections on Research Culture and activities looking into new research assessment practices and new mechanisms to align rewards and recognitions with the research culture we want to encourage.

Due to their converging interests in discussing the paradigm shift in research, and their shared goal to promote science as a key enabler for sustainable development, Science Europe and NSFC are jointly holding a strategic dialogue on addressing global challenges at a time of paradigm shift in science. This workshop will provide a platform for all participating organisations to share their experiences and practices and learn from each other.

The workshop will be split in two sessions organised on two consecutive days to better accommodate participants in China and in Europe. During the first day, participants will discuss the paradigm shift in science and the evolution of research practices, including the growing role of interdisciplinary research. During the second day, participants will focus on addressing sustainable development and climate change, and how the paradigm shift in science and interdisciplinary research can constitute possibilities to achieve this goal.

NSFC and Science Europe look forward to joining hands and strengthen co-operation to address these crucial topics for science and the world in general.

Programme

WEDNESDAY 16 NOVEMBER 2022

DAY 1 – THE PARADIGM SHIFT IN SCIENCE

- Convenors / Moderators**
- CET** ■ **Professor Marcel LEVI**, President Executive Board, Dutch Research Council
CST (NWO)
- **Professor FENG Jianfeng**, Chair Professor of Shanghai National Centre for Mathematic Sciences, and Dean of Institute of Science and Technology for Brain Inspired Intelligence, Dean of School of Data Science in Fudan University
- 09.00–09.10** **Welcome and opening of the Policy Workshop**
16.00–16.10 ■ **Dr. Marc SCHILTZ**, President of Science Europe, and Secretary General, Chief Executive Officer of the Luxemburg National Research Fund
- **Professor XIE Xincheng**, Vice President NSFC
- 09.10–09.25** **Opening remarks from the two convenors**
16.10–16.25 ■ **Professor Marcel LEVI**, President Executive Board, Dutch Research Council (NWO)
- **Professor FENG Jianfeng**, Chair Professor of Shanghai National Centre for Mathematic Sciences, and Dean of Institute of Science and Technology for Brain Inspired Intelligence, Dean of School of Data Science in Fudan University
- 09.25–09.50** **Perspectives from researchers**
16.25–16.50 ■ **Professor WANG Lei**, Professor at Institute of Physics, Chinese Academy of Sciences
- **Professor Behnam TAEBI**, Full Professor of Energy & Climate Ethics and Scientific Director of the Safety & Security Institute at Delft University of Technology, the Netherlands
- 09.50–10.15** **Perspectives from policy makers**
16.50–17.15 ■ **Professor CHEN Yongjun**, Director of the Department of Interdisciplinary Sciences, National Natural Science Foundation of China **will be replaced by CHENG Zhigang**, Associate Professor, Department of Interdisciplinary Sciences, National Natural Science Foundation of China
- **Lillian M. BALTZRUD**, Special Adviser, Department for the research and innovation system, and **Philip LORENTZEN** Special advisor, Department for Strategy, consultancy and community dialogue, Research Council of Norway
- 10.15–10.45** **Q&A and Open Discussion**
17.15–17.45
- 10.45–11.00** **Conclusion and closing**
17.45–18.00 Summary by the moderators

THURSDAY 17 NOVEMBER 2022

DAY 2 – THE EFFECTS OF THE PARADIGM SHIFT IN SCIENCE IN ADDRESSING GLOBAL CHALLENGES AND ACHIEVING SUSTAINABLE DEVELOPMENT

Convenors / Moderators

- **Academician WANG Huijun**, Chairman of the Chinese Committee for the World Meteorological Organization's World Climate Research Program (WCRP)
- **Dr. Ismael RÀFOLS**, Senior researcher at the Centre for Science and Technology Studies (CWTS) of Leiden and associate faculty at the Science Policy Research Unit at the University of Sussex, UK

09.00–09.10 Welcome and opening of the Policy Workshop

- 16.00–16.10 ▪ **Professor YIN Wenxuan**, Deputy Director General of International Co-operation, NSFC
- **Professor Angelika KALT**, Vice-President of Science Europe, and Director of the Swiss National Science Foundation (SNSF)

09.10–09.25 Opening remarks from the two convenors

- 16.10–16.25 ▪ **Academician WANG Huijun**, Chairman of the Chinese Committee for the World Meteorological Organization's World Climate Research Program (WCRP)
- **Dr. Ismael RÀFOLS**, Senior researcher at the Centre for Science and Technology Studies (CWTS) of Leiden and associate faculty at the Science Policy Research Unit at the University of Sussex, UK.

09.25–09.50 Perspectives from researchers

- 16.25–16.50 ▪ **Professor José Manuel GUTIERREZ**, Research Professor and Director of the Institute of Physics of Cantabria, Spanish National Research Council (CSIC) and University of Cantabria
- **Professor ZHAI Panmao**, Professor at the Chinese Academy of Meteorological Sciences

09.50–10.15 Perspectives from policy makers

- 16.50–17.15 ▪ **Dr Anne-Hélène PRIEUR-RICHARD**, Head of the Department Environment, Ecosystem, Biological Resources at the French National Research Agency (ANR)
- **Professor LIU Zhe**, Professor at the Department of Earth Sciences, National Natural Science Foundation of China

10.15–10.45 Q&A and Open Discussion

10.45–11.00 Conclusion and closing

- 17.45–18.00 Summary by the moderators

Participants and Biographies



Marc Schiltz
SCIENCE EUROPE PRESIDENT AND CEO OF THE NATIONAL RESEARCH FUND OF LUXEMBOURG

Marc Schiltz is the CEO of the Luxembourg National Research Fund (FNR). He brings a strong dedication to building a world-class research system that will generate long-term societal and economic impact for the country. Over the past ten years, he has significantly contributed to enhancing the quality of the Luxembourg research system and to build bridges with the private sector, as well as with the international research community. Under his leadership, the FNR has successfully developed programme lines to attract scientific talent to the country and to link the business ecosystem to research innovation.

Since 2017, Marc Schiltz is also president of Science Europe, the Brussels-based association of all major European public research funding and research performing organisations, representing a combined annual investment in research of nearly €24bn in 28 countries. In this role, he has been setting the European agenda to foster Open Science and is currently chairing cOAlition S, an international consortium of major research funders that have agreed to implement open access policies in a co-ordinated way.

He also sits on the Governing Board of the Global Research Council, which comprises the heads of research funding agencies from around the world and is the founding Chairman of the Luxembourg Agency for Research Integrity.



XIE Xincheng
VICE-PRESIDENT OF THE NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA

Prof. Xin-Cheng Xie obtained his B.Sc. in physics from the University of Science and Technology of China in 1982 and Ph. D. from the University of Maryland in 1988. He became a faculty member in the Department of Physics at Oklahoma State University in USA in 1991 and was named Regents Professor in 2004. He worked as Chief Scientist and Director of Laboratory of Condensed Matter Theory and Computation at the Institute of Physics, Chinese Academy of Sciences between 2005 and 2010. Professor Xie joined Peking University in 2010 as Chair Professor and Founding Director of International Center for Quantum Materials. He was Dean of School of Physics at Peking University between 2011 and 2018. Professor Xie assumed the role of Divisional Director of Mathematical and Physical Sciences, National Natural Science Foundation of China (NSFC) in 2016, and Vice President of NSFC in 2018.

Professor Xie's main research interests include quantum Hall effect, quantum transport, topological matter and strongly correlated electron systems. He is an editorial board member of several international peer-reviewed journals, such as the Editor-in-Chief of Science China Physics, Mechanics & Astronomy. He also serves on the international advisory committees of many international conferences and institutes. Professor Xie was elected as a Fellow of American Physical Society in 2008, a Member of Chinese Academy of Sciences in 2015, and a Fellow of The World Academy of Sciences in 2018.



Marcel Levi
PRESIDENT EXECUTIVE BOARD, DUTCH RESEARCH COUNCIL (NWO)

Marcel Levi is president of the Dutch Research Council. He is also Professor of Medicine at Amsterdam University Medical Center/University of Amsterdam and at University College London and a consultant in Acute Medicine and Haematology. Earlier he worked at the University of Perugia (Italy), in Oxford (UK) and the Center for Transgene Technology and Genetherapy of the University of Leuven, Belgium. He is currently chairman or board member of several national and international health and research organisations and charities. He is a member of the Royal Netherlands Academy of Science.



FENG Jianfeng
CHAIR PROFESSOR OF SHANGHAI NATIONAL CENTRE FOR MATHEMATIC SCIENCES, AND DEAN OF INSTITUTE OF SCIENCE AND TECHNOLOGY FOR BRAIN INSPIRED INTELLIGENCE, DEAN OF SCHOOL OF DATA SCIENCE IN FUDAN UNIVERSITY

Jianfeng Feng is the chair professor of Shanghai National Centre for Mathematic Sciences, and the Dean of Institute of Science and Technology for Brain-Inspired Intelligence in Fudan University. He has been developing new mathematical, statistical and computational theories and methods to meet the challenges raised in neuroscience and mental health researches. Recently, his research interests are mainly in big data analysis and mining for neuroscience and brain diseases. He was awarded the Royal Society Wolfson Research Merit Award in 2011, as a scientist 'being of great achievements or potentials'.

He has made considerable contributions to modelling single neurons and neuronal networks, machine learning, and causality analysis with publications on Nature series journals, JAMA Psychiatry, AJP, Biological Psychiatry, Molecular Psychiatry, Brain, PNAS, PRL, and top machine learning journals, and so on. He has proposed and developed BWAS method (Brain-wide association study), and successfully applied it to search the roots in depression, schizophrenia and autism; developed functional entropy method and applied it to the study of ageing, intelligence and creativity, and so on.



WANG Lei
PROFESSOR AT INSTITUTE OF PHYSICS, CHINESE ACADEMY OF SCIENCES

Lei Wang has been Professor at the Institute of Physics of the Chinese Academy of Sciences since 2019, after being Assistant Professor at the same institute from 2016 on.

Before that, he was at ETH Zurich in Switzerland from 2011 to 2016 as Postdoctoral research assistant and as Senior research assistant, after obtaining his PhD in Physics from his current institute at the Chinese Academy of Sciences.



Behnam Taebi

PROFESSOR OF ENERGY & CLIMATE ETHICS AND SCIENTIFIC DIRECTOR OF THE SAFETY & SECURITY INSTITUTE AT DELFT UNIVERSITY OF TECHNOLOGY, THE NETHERLANDS

Behnam Taebi is Full Professor of Energy & Climate Ethics and Scientific Director of the Safety & Security Institute at Delft University of Technology. He further leads TU Delft | The Hague, which is a university wide initiative with the aim to bring engineering knowledge closer to the heart of public policy and politics.

Taebi studied Material Science and Engineering (2006) and received his Ph.D. in Philosophy of Technology (2010). He was affiliated with Harvard University's Belfer Center for Science and International Affairs (2014-2020) and a member of The Young Academy of the Royal Netherlands Academy of Arts and Sciences (DJA-KNAW, 2016-2021). Taebi is the co-Editor-in-Chief of Science and Engineering Ethics, and co-editor a volume on The Ethics of Nuclear Energy (Cambridge University Press, 2015) and the author of a monograph on Ethics and Engineering. An Introduction (Cambridge University Press, 2021). He has further served on the OECD Expert Panel that published the report Addressing societal challenges using transdisciplinary research (OECD, 2020).



CHEN Yongjun

DIRECTOR OF THE DEPARTMENT OF INTERDISCIPLINARY SCIENCES, NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA

Yongjun Chen obtained his PhD from the Institute of Chemistry at the Chinese Academy of Sciences in 1993. Following postdoctoral studies at Ghent University (Belgium) and at University College London (UK), he returned to the Chinese Academy of Sciences in 1999. He held the positions of Associate Researcher and Researcher until 2003, when he moved to NSFC, becoming its Deputy Director of the Department of Chemical Sciences. In 2015, he became the Executive Deputy Director of the department, and since 2020 he has been the Executive Deputy Director of the Department of Interdisciplinary Sciences.

will be replaced by CHENG Zhigang

ASSOCIATE PROFESSOR, DEPARTMENT OF INTERDISCIPLINARY SCIENCES, NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA



Lillian M. Baltzrud

SPECIAL ADVISER, DEPARTMENT FOR THE RESEARCH AND INNOVATION SYSTEM, RESEARCH COUNCIL OF NORWAY

Lillian Baltzrud is Special Advisor at the Research Council of Norway (RCN), where she co-ordinates RCN's Higher Education Policy. Before she joined RCN seven years ago, she worked at the University of Oslo as Research Adviser and Manager. She has taken

on several roles at RCN and has represented RCN in several international fora. She participated as national expert in the OECD appointed expert group writing the OECD GSF policy report Addressing Societal Changes using Transdisciplinary Research and has been the project leader of the IDR/TDR project as RCN, addressing IDR funding mechanisms, proposal assessment procedures and policy development.



Philip LORENTZEN
SPECIAL ADVISOR, DEPARTMENT FOR STRATEGY, CONSULTANCY AND COMMUNITY DIALOGUE, RESEARCH COUNCIL OF NORWAY

Philip Lorentzen is Special Advisor at the Research Council of Norway, where he works with strategy and policy development. He has worked much with interagency co-operation and R&D in industry. He is part of a steering committee on Mission Oriented Innovation Policy in the OECD and has worked on the development of national missions in Norway.



YIN Wenxuan
DEPUTY DIRECTOR GENERAL OF INTERNATIONAL CO-OPERATION, NSFC

Yin Wenxuan has been Deputy Director-General of the Bureau of International Co-operation of the NSFC, as well as Chinese Director of the Sino-German Center for Research Promotion since 2021. Before that, she worked at the Division of Biomedicine at the Department of Life Sciences at NSFC in a variety of roles, including as Director.

She obtained a PhD in Biochemistry and Molecular Biology from the Chinese Academy of Medical Sciences and Peking Union Medical College in 2001. Following that, she held scholar- and fellowships at various universities, including Hong Kong University, the University of Minnesota (US), and the University of Washington (US). She returned to China in 2007 for a research professorship at the Institute of Biophysics at the Chinese Academy of Sciences.



Angelika Kalt
VICE-PRESIDENT OF SCIENCE EUROPE, AND DIRECTOR OF THE SWISS NATIONAL SCIENCE FOUNDATION (SNSF)

Angelika Kalt is the Vice-President of Science Europe and Director of the Swiss National Science Foundation (SNSF), Switzerland's main research funding organisation. Before this, Angelika was professor of Petrology and Internal Geodynamics at the University of Neuchâtel.

Since taking over the helm at the SNSF, she has focused her efforts on modernising SNSF research funding in line with international trends – promoting cross-border collaboration, implementing the DORA Declaration and facilitating open access publishing. She is

dedicated to improving conditions for researchers in Switzerland, particularly for young researchers and women.

Angelika Kalt also places great importance on maintaining and developing good relations with partner organisations within and outside of Switzerland.



WANG Huijun
CHAIRMAN OF THE CHINESE COMMITTEE FOR THE WORLD METEOROLOGICAL ORGANIZATION'S WORLD CLIMATE RESEARCH PROGRAM (WCRP)

Academician of the Chinese Academy of Sciences, Academician of the Norwegian Academy of Technology, and Honorary Professor of the University of Bergen, Norway. He is currently the chairman of the Chinese Meteorological Society, the vice chairman of the Chinese Association for Quaternary Research, the chairman of the Chinese Committee for the World Meteorological Organization's World Climate Research Program (WCRP), a member of the Joint Scientific Committee for the WCRP, and the director of the Academic Committee of Nanjing University of Information Science and Technology.

Academician Wang has long been engaged in research on climate simulation and climate change, variability and prediction of East Asian monsoon, etc. He has presided over projects including Basic Science Center Program, Major Research Plan and Science Fund for Creative Research Group of the National Natural Science Foundation of China, as well as National "973" Project and the National Key Research and Development Project. Academician Wang has published more than 300 academic papers in high quality journals at home and abroad, of which more than 200 are SCI(E)-indexed papers, and the published papers have been cited more than 4,000 times by SCI(E)-indexed papers. Academician Wang has won the second prize of the National Natural Science Award (Place No. 1), the Ho Leung Ho Lee Science and Technology Progress Award, the National Science Fund for Distinguished Young Scholars, the National Outstanding Scientific and Technological Workers, and the first batch of the National Ten Thousand Talents Program - Leader of the Hundred Thousand Talents Project Talent and other honors. More than 30 doctoral graduates have been trained, of which 4 won the National Science Fund for Distinguished Young Scholars, 5 won the Excellent Young Scientists Fund, 1 won the National Science and Technology Award for Youth, 5 won the Chinese Academy of Sciences Outstanding Doctoral Dissertation Award, and 1 won the National Excellent Doctoral Dissertation Award. Academician Wang won the 2010 Lu Jiaxi Outstanding Graduate Mentor Award for his outstanding contribution to talent training.



Ismael Ràfols
SENIOR RESEARCHER AT THE CENTRE FOR SCIENCE AND TECHNOLOGY STUDIES (CWTS) OF LEIDEN AND ASSOCIATE FACULTY AT THE SCIENCE POLICY RESEARCH UNIT AT THE UNIVERSITY OF SUSSEX, UK

Ismael Ràfols is a senior researcher at CWTS and associate faculty at SPRU (Science Policy Research Unit) at the University of Sussex. He works on science policy developing

novel approaches to S&T indicators, using mixed-methods for informing evaluation, foresight and research strategies. His current focus is on research priority setting, for societal challenges such as bird flu or obesity, or Sustainable Development Goals (SDGs), particularly in health and agriculture.

Ismael has been involved in initiatives on ‘responsible metrics’, such as the Leiden Manifesto, the EC Expert Group on Open Science Indicators, on or discussions on biases against research in ‘peripheral’ topics and regions. Previously, he had developed indicators and mapping methods for the evaluation of interdisciplinary research, e.g. in emergent fields such as bio and nanotechnology.

He received an MSc in Science and Technology Policy from SPRU (Sussex), a PhD in biophysics from Tohoku University (Sendai, Japan) and was a postdoc in nanobiotechnology at Cornell University. Before CWTS, he worked at SPRU (Sussex) (2005-12) and Ingenio (CSIC-UPV) (2012-19). In between academic positions, he has worked on international co-operation in Oxfam and the City Council of Barcelona.



José Manuel GUTIERREZ
RESEARCH PROFESSOR AND DIRECTOR OF THE INSTITUTE OF PHYSICS OF CANTABRIA, SPANISH NATIONAL RESEARCH COUNCIL (CSIC) AND UNIVERSITY OF CANTABRIA

José Manuel Gutiérrez is director of the Institute of Physics of Cantabria (Consejo Superior de Investigaciones Científicas –CSIC– and University of Cantabria). He is interested in regional climate variability and modeling and in the development of sector-focused regional climate information for adaptation and resilience. Most of his research has focused on climate downscaling, exploring statistical, dynamical and machine learning methods, and he has developed several tools and applied them worldwide in long-lasting projects and collaborations (e.g. with FAO focused on agriculture). He is a member of the CORDEX Advisory Team (SAT) that co-ordinates regional climate downscaling science and implementation through global partnerships. He is lead author of the IPCC AR6 Atlas chapter and co-ordinates and maintains the Interactive Atlas; he is member of the AR6 Data Working Group (TG-Data) and the AR6 WGI-II Handshake team of AR6. He participates in several committees such as the jury of the BBVA Foundation Frontiers of Knowledge Awards.



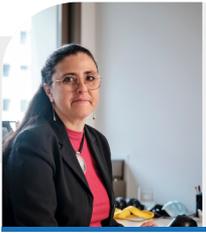
ZHAI Panmao
PROFESSOR AT THE CHINESE ACADEMY OF METEOROLOGICAL SCIENCES

Panmao Zhai is Chief Scientist of the Chinese Academy of Meteorological Sciences, Vice Chairman of the National Climate Change Expert Committee in China. He has been involved in IPCC for a long time as the lead author for IPCC WG1 AR4 and AR5; he is currently the Co-Chair of IPCC Working Group I.

He has also been Vice President of Chinese Academy of Meteorological Sciences, and the Secretary General of the Chinese Meteorological Society, the Director-General of

Department of Forecasting and Networking, and Deputy Director-General of Department of Prediction Services and Disaster Mitigation of China Meteorological Administration.

He presided over the completion of one National Basic Research Program of China (973 program) and is now Chairing a National Key Research and Development Program of China. His main study area is on detection, attribution, and projection of extreme weather and climate events.



Anne-Hélène PRIEUR-RICHARD
HEAD OF THE DEPARTMENT ENVIRONMENT, ECOSYSTEM, BIOLOGICAL RESOURCES AT THE FRENCH NATIONAL RESEARCH AGENCY (ANR)

Anne-Hélène Prieur-Richard had 17 years' experience in biodiversity and sustainability science-policy-practice interface in addition to 5 years in research, before joining the French National Research Agency.

She has worked in several research organisations in France and UK in the field of biodiversity and ecosystem functioning before joining international research programmes in the field of biodiversity and sustainability. Between 2006 and 2014, she was Deputy Director and then Executive Director at DIVERSITAS, the international programme on biodiversity sciences of ICSU and UNESCO. In 2015, she became Director of the Future Earth Global Hub based in Montreal, Canada.

In 2018, she joined the French National Research Agency (ANR), Paris, France. She is in charge of the strategic representation of the agency in several international and European initiatives (e.g. Belmont Forum, European Joint Programme Initiative on Climate) before being appointed as Head of Department Environment, Ecosystem, Biological Resources in June 2021.

She has also teaching experience in France (University of Montpellier and Paris), and was Affiliate Professor at Concordia University, Canada.



LIU Zhe
PROFESSOR AT THE DEPARTMENT OF EARTH SCIENCES, NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA

LIU Zhe is the Director of Division V in the Department of Earth Sciences at the National Natural Science Foundation of China.



This joint policy workshop, co-organised by Science Europe and the National Natural Science Foundation of China aims at enabling mutual learning on this topic of common interest for Chinese and European research community.

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