



# Sino-German Sustainable Development Forum

September 24, 2021



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# Sino-German Sustainable Development Forum

**Time:** September 24, Friday, 2021 (9:00-12:30, Germany / 15:00-18:30, China)

Organized by Zhejiang University

Hosted by Zhejiang University's Office of Global Engagement and Shanghai Institute for Advanced Study (SIAS)

Supported by DAAD China and Zhejiang University's School of Earth Sciences, School of Materials Science and Engineering, and School of Public Affairs



# SCHEDULE

## Time:

Germany 9:00-9:30 China 15:00-15:30

## Opening Session



### HE Lianzhen

Vice President, Zhejiang University



### FANG Jun

Deputy Director-General, Dept. of International Cooperation and Exchanges, Ministry of Education, P. R. China



### Pit Heltmann

Consul General of the Federal Republic of Germany in Shanghai



### Enno Aufderheide

Secretary General, Alexander von Humboldt Foundation



### Ruth Schimanowski

Chief Representative, DAAD (German Academic Exchange Service)



### LI Min (Moderator)

Director of the Office of Global Engagement, Zhejiang University

**Time:**

Germany 9:35-11:35 China 15:35-17:35

**Parallel Sessions**

## Environment and Climate Change



**CAO Long** (Moderator)

Vice Dean of the School of Earth Sciences, Zhejiang University



**ZHANG Deguo**

School of Earth Sciences, Zhejiang University

*Climate-affected Dune Stabilization Processes in Northern Chinese Deserts in the Past 10000 Years*



**Matthias Garschagen**

Department of Geography, LMU Munich

*Climate Change Risks, Vulnerability, and Adaptation in Coastal Cities*



**ZHOU Xuhui**

School of Ecological and Environmental Sciences, East China Normal University

*Effects of Extreme Drought on Soil Organic Carbon Accumulation in Subtropical Forests*



**Bodo Ahrens**

Department of Geosciences, Goethe University Frankfurt

*Convective Intensification of Flood Risk: Examples in Central Europe*



## Andreas Tiehm

German Water Technology Center

*Climate Change: Water Sector Challenges and Technology Development*



## YOU Qinglong

Institute of Atmospheric Sciences, Fudan University

*Warming Amplification over the Tibetan Plateau and Its Influences on Water Cycle*

Supported by Zhejiang University's School of Earth Sciences

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## Developing New Energy Materials

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### JIANG Yinzhu (Moderator)

School of Materials Science and Engineering, Zhejiang University



### FU Chenguang

School of Materials Science and Engineering, Zhejiang University

*Topological Materials for Thermoelectric Energy Conversion*



### XU Xiaoxiang

School of Chemical Science and Engineering, Tongji University

*Tailoring the Photocatalytic Performance of Perovskites by Structural and Compositional Modifications*



## Egbert Figgemeier

Research Center Jülich/ RWTH Aachen University

*Enabling Strategies and Status on Silicon-based Negative Electrodes for Lithium Ion Batteries*



## YU Minghao

Chair of Molecular Functional Materials, Technical University of Dresden

*Towards High-Power Energy Storage: Materials, Electrochemistry and Devices*



## Benjamin Balke

Department Energy Materials, Fraunhofer Research Institution for Materials Recycling and Resource Strategies IWKS

*Design of Thermoelectric Half-Heusler Materials*

Supported by Zhejiang University's School of Materials Science and Engineering

## Shaping Policies for Green Development



### TAN Rong (Moderator)

Vice Dean of the School of Public Affairs, Zhejiang University



### FANG Kai

School of Public Affairs, Zhejiang University

*The Environmental Impact of Global Trade on the Belt and Road Initiative*



## GU Baojing

College of Environmental and Resource Sciences, Zhejiang University

*Managing Nitrogen for Sustainable Development*



## Franz W. Gatzweiler

Institute of Urban Environment, Chinese Academy of Sciences

*A New Science Plan for Urban Health and Well-being in an Age of Increasing Complexity*



## Miranda Schreurs

TUM School of Governance, Technical University of Munich

*Sino-German Climate Policies and the Potential for Greater Cooperation*



## Michael Klaus

Hanns Seidel Foundation

*Sustainable Development of Rural Areas and SDGs – Frame Conditions for Policies for Green Development*



## Klaus Eisenack

Thaer-Institute of Agricultural and Horticultural Sciences, Humboldt University of Berlin

*Urban Climate Governance*

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Supported by Zhejiang University's School of Public Affairs

**Time:**

Germany 11:40-12:30 China 17:40-18:30

**Roundtable  
Discussion**

## Industry Meets Academia



**Ruth Schimanowski** (Moderator)

Chief Representative, DAAD (German Academic Exchange Service)



**LI Ruicheng**

Senior Vice President of SAP and Managing Director of SAP Labs China



**Ulf Dressler**

Vice President, Corporate Communications APAC, LANXESS



**ZHOU Ruhong**

Director of Shanghai Institute for Advanced Study, Zhejiang University



**Andreas Tiehm**

Head of the Department of Water Microbiology, German Water Technology Center



**Benjamin Balke**

Head of Department Energy Materials, Fraunhofer Research Institution for Materials Recycling and Resource Strategies IWKS



**TAN Rong**

Vice Dean of the School of Public Affairs, Zhejiang University

# BIOGRAPHIES



## HE Lianzhen

Vice President, Zhejiang University

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Professor Dr. HE Lianzhen assumed the role as Vice President of Zhejiang University in June 2018. She also serves as a member of the standing committee of CPC Zhejiang University Committee, Dean of ZJU's International Campus and Secretary of the CPC Committee of ZJU's International Campus.

Prior to her current position, Dr. HE was dean of School of International Studies from March, 2009 to November, 2016 and dean of the Academy of Humanities and Social Sciences from April, 2016 to April, 2017.

Dr. HE got her Master's degree in Applied Linguistics from the University of Birmingham, UK (1993) and her PhD degree in Linguistics and Applied Linguistics from Guangdong Foreign Studies University, China (1998). Her main research interests are language assessment, applied linguistics, and discourse analysis. She was senior visiting scholar at University of California at Los Angeles in 2004, Benjamin Meaker Visiting Professor at University of Bristol in 2014. She was awarded National Professor of Distinction by Chinese Ministry of Education in 2006. Her publications include articles on language assessment research in top journals like *Language Testing*, *Language Assessment Quarterly*, and many key journals in China.

She is also director of the National Advisory Board for College Foreign Language Teaching of the Ministry of Education, chair of “Double First-class” University Network, China Education Association for International Exchange, and vice chair of China Association for Language Testing and Assessment.

# BIOGRAPHIES



## FANG Jun

Deputy Director-General, Dept. of International Cooperation and Exchanges, Ministry of Education, P. R. China

### Academic Background

MA, Exeter University, UK (1996-1997)

BS Road Traffic, Tongji University, P. R. China (1981-1985)

### Professional Experiences

DDG, Dept. of International Cooperation and Exchanges, MoE, P. R. China (Since 2015.02)

DDG, Dept. of International Cooperation and Exchanges, MoE, P. R. China (2013.12-2015.02)

Educational Counsellor (DDG), Education Office, Consulate-General of the P. R. China in Toronto (2008-2013)

First Secretary, Section of Educational Affairs, Embassy of the P. R. China in the USA. (2004-2008)

Director, Division of American & Oceanian Affairs, Dept. of International Cooperation and Exchanges, MoE, P. R. China (2002-2004)

Second Secretary / First Secretary, Education Office, Consulate-General of the P. R. China in Chicago (1998-2002)

Staff/ Deputy Director, Division of American & Oceanian Affairs, Dept. of International Cooperation and Exchanges, MoE, P. R. China (1992-1998)

Vice Consul, Education Office, Consulate-General of the P. R. China in Melbourne (1990-1992)

Staff, General Office, Bureau of Foreign Affairs, MoE, P. R. China (1985-1990)

# BIOGRAPHIES



## Pit Heltmann

Consul General of the Federal Republic of Germany in Shanghai

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Since July 2021, Pit Heltmann is the Consul General of the Federal Republic of Germany in Shanghai. From 2018 to 2020 he served as the German Ambassador in Pyongyang, North Korea.

Heltmann's diplomatic career began in 1988 when he joined the German Federal Foreign Office. The focus of his work during the following three decades has been East Asia. Apart from serving twice at the German Embassy in Tokyo, he was Head of the Trade Promotion Bureau at the German Embassy in China. He also served as Deputy Head of Mission at the German Embassy in Mongolia from 1994 to 1998 and at the German Embassy in the Philippines from 2007 to 2010.

Between 2014 and 2018, Heltmann was Director of the Foreign, Security and Developmental Policy Division at the German Federal Press Office, where he was in charge of formulating the speaking notes for the Government Spokesperson on the German government's foreign, defense, and development policies.

Heltmann double-majored in Geography and Japanese Studies at the University of Bonn, Germany.

# BIOGRAPHIES



## Enno Aufderheide

Secretary General, Alexander von Humboldt Foundation

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Enno Aufderheide is an alumnus of the German National Academic Foundation. He studied biology at the universities of Bielefeld and Bonn and was also a Fulbright Fellow at the University of Colorado in Boulder, USA. He worked on his doctoral dissertation at the Max Planck Society's Friedrich Miescher Laboratory and was awarded a doctorate by Tübingen University in 1988. From 1988 to 1999, he held various positions at the German Aerospace Centre before becoming head of the Research Department at the German Council of Science and Humanities in 1999. In 2002, he was appointed as executive director of the "Science" Section at the Helmholtz Association. From 2006 to 2010, he was head of the Research Policy and External Relations Department at the Max Planck Society in Munich. In 2010, Enno Aufderheide became the new Secretary General of the Humboldt Foundation.

Enno Aufderheide is a member of various national and international committees for the promotion of science and is the author of numerous academic and science policy publications. The distinctions he has received for his work include the Kussmaul Medal which he was awarded by the German Society for Rheumatology in 2009.

## BIOGRAPHIES



### **Ruth Schimanowski**

Chief Representative, DAAD (German Academic Exchange Service)

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Ruth Schimanowski arrived in China over 20 years ago and has been the Chief Representative of the German Academic Exchange Service (DAAD) since January 2020. The DAAD is the world's leading scholarship association supported by German federal government funds. DAAD staff in around 70 branch offices and information centres around the world make their expertise available and ensure that international experience from different perspectives are influencing the projects. The DAAD promotes Germany as a leading place for study and research among the world's host countries. A variety of scholarships and exchange programs attract German students, teachers and researchers to go abroad. The DAAD has been represented in China since 1994 by its branch office in Beijing and by its information centres in Shanghai and Guangzhou. In addition, the DAAD currently funds around 30 German language lecturers at Chinese universities and various Sino-German HEI collaborations.

## BIOGRAPHIES



### LI Min

Director of the Office of Global Engagement, Zhejiang University

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LI Min was born in Hangzhou, China. She completed her undergraduate study in English Language and Literature in Fudan University, Shanghai and received her MA in Applied Linguistics in Zhejiang University.

Min has been teaching in Zhejiang University since 1991 and her research interests are Second Language Acquisition and Cognitive Learning. Recently her focus is more on higher education policy and internationalization of higher education. Min was a visiting scholar in Central College U.S. for the academic year of 2003-2004. She was the Director of Central College China Program from 2005-2007, undertaking overall on-site academic, financial and budgetary, and student life responsibilities of the program.

Min was Deputy Director for Office of Global Engagement of Zhejiang University from November 2009 to December 2015. Since then she has been Acting Director of the Office and was appointed as Director of the Office in November 2016. She oversees the university's global strategy and outreach. Her major responsibility is developing collaborative relations with international partners, in terms of facilitating faculty and student mobility, promoting joint research, developing overarching framework for university collaboration and looking over ZJU's participation in international consortiums etc.

## BIOGRAPHIES



### CAO Long

Vice Dean of the School of Earth Sciences, Zhejiang University

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Professor Cao's main research interest is to develop and apply Earth system models to understand the broad issue of global climate change, including climate system response to external forcings, interactions between climate change and the carbon cycle, and effect of climate engineering on global climate and environment. Prof. Cao is a contributing author of the IPCC (Intergovernmental Panel on Climate Change) Fifth Assessment Report, and is a lead author of the IPCC Sixth Assessment Report. Prof. Cao is the recipient of the WMO (World Meteorological Organization) Norbert Gerbier-MUMM International award for 2014.



### ZHANG Deguo

School of Earth Sciences, Zhejiang University

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ZHANG Deguo (DZ) is a research professor of physical geography and geomorphology at Zhejiang University. His research interests include aeolian processes and landforms and environmental changes in the desert. He has been intensively working in the sand seas in northern China, particularly in the Tengger Desert, Mu Us Desert and Gonghe Basin Desert to better understand the landscape and palaeoclimatic changes in drylands. DZ is currently the PI of a National Natural Science Foundation of China (NSFC) project, and an Intergovernmental Cooperation project of Chinese Ministry of Science and Technology. The focus of his work is about the responses of the dunefield surrounding the Qilian mountain to the climate change in the past at different altitude.

# BIOGRAPHIES



## Matthias Garschagen

Department of Geography, LMU Munich

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Prof. Dr. Matthias Garschagen holds the chair in human geography and heads the Teaching and Research Unit for Human Environment Relations at the Ludwig-Maximilians-University Munich (LMU). He further is a Honorary Professor at RMIT University, Melbourne. Before joining LMU, Matthias led the section of Vulnerability Assessment, Risk Management and Adaptive Planning (VARMAP) at for the United Nations University – Institute for Environment and Human Security (UNU-EHS) in Bonn.

Prof. Garschagen's research focuses on risk, vulnerability, adaptation and transformation in the context of environmental hazards and climate change, particularly in cities. His research combines a global view with regional and local expertise in Southeast Asia (especially Vietnam, Indonesia, the Philippines and Singapore), South Asia (especially India), West Africa (especially Ghana and Nigeria) and Europe (especially Germany). Next to a number of book projects, his research findings have been published in international journals, e.g., *Nature*, *Ecology and Society*, *Climatic Change*, *Habitat International*, *Natural Hazards*.

Amongst other functions, Prof. Garschagen serves as a Lead Author in the IPCC's Special Report on Ocean and the Cryosphere (SROCC) and the Sixth Assessment Report (AR6). For a number of years, he has been the scientific lead of the World Risk Report. Prof. Garschagen is an associate editor of the international journals *Climate and Development* and *Urban Climate* as well as an editorial board member of the *Journal of Extreme Events*. He has been Principal Investigator or overall coordinator of well over a dozen international research projects.

## BIOGRAPHIES



### ZHOU Xuhui

School of Ecological and Environmental Sciences, East China Normal University

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ZHOU Xuhui Ph.D, Full professor in School of Ecological and Environmental Sciences, East China Normal University, Distinguished Professor of the Yangtze River Scholar of the Ministry of Education, Professor of Special Appointment (Eastern Scholar) at the Shanghai Institutions of Higher Learning, and the national “Thousand Young Talents” Program in China. He received his Ph.D at University of Oklahoma in 2007 and worked as post Doc. in 2007-2009 and research assistant professor in 2009-2011. From 2011 to 2014, he worked in Fudan University as professor and then moved to East China Normal University since 2015. His research mainly focuses on effects of climate change on terrestrial carbon and nitrogen cycles, and research areas include global change ecology, ecosystem ecology, biogeochemistry, ecological forecasting. From 2005, he published over 130 papers in international journal of ecology (e.g., PNAS, Global Change Biology, Ecology, New Phytologist, Global Ecology & Biogeography), having H index 44 and total citation over 7000 times. Currently, he served as editorial board for Scientific Reports and Journal of Plant Ecology and as reviewers for Nature Ecology & Evolution、Nature Climate Change, Global Change Biology.

# BIOGRAPHIES



## Bodo Ahrens

Department of Geosciences, Goethe University Frankfurt

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Prof. Bodo Ahrens currently works at the Institute for Atmospheric and Environmental Sciences, Goethe-Universität Frankfurt am Main, Germany. He received his Ph.D (1996) in Natural Sciences at University of Bonn, Germany. He focused on recent climate change and hydrology as well as numerical prediction, and more than 140 papers have been published. He is currently Chair Scientific Advisory Board of the COSMO-CLM Community (since 2010), Expert committees: Hydrometeorology of the German Meteorological Society (since 2009, board member, vice chair), CLM Community for regional climate modeling (since 2009). He is on the Editorial Boards of Meteorology and Atmospheric Physics, International Journal of Atmospheric Sciences and Member of the Meteorological Societies of Austria (since 2003), Germany (since 2006, ZVF vice chair since 2007, chair since 2011), and America (since 2008), AustroClim (2003).



## Andreas Tiehm

German Water Technology Center

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Andreas Tiehm has been working in the fields of environmental biotechnology and health related water microbiology during the last 30 years. In recent years, his scientific activities focussed on detection of antibiotic resistant bacteria and resistant genes, the validation and harmonization of qPCR methods for viruses, bacteria and functional genes, and evaluation of water treatment processes. He has coordinated and participated in international research collaborations with European partners, China, Israel/Palestine/Jordan, and Australia. He is working as microbiological expert in several technical committees of the German Waterworks Association (DVGW).

## BIOGRAPHIES



### YOU Qinglong

Institute of Atmospheric Sciences, Fudan University

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Prof. YOU Qinglong currently works at Department of Atmospheric and Oceanic Sciences & Institute of Atmospheric Sciences, Fudan University. He received his Ph.D (2010) in climate change from University of Chinese Academy of Sciences, Beijing, China. He studied and worked in Friedrich-Schiller University (FSU-Jena), Hamburg University, Max Plank Institute for Meteorology, Germany, as well as Nanjing University of Information Science and Technology, Nanjing, China since 2007-2018 before he moved to Fudan University. He has won many honors and scholarships from Germany (Humboldt Foundation and DAAD), first prize of science and technology of Jiangsu Province and excellent doctoral dissertation of Chinese Academy of Sciences. He focused on recent climate change and atmospheric circulation as well as the climate extremes from multiple datasets (observations, reanalysis and model output). More than 140 papers have been published, which are received more than 5000 citations from Google Scholar website, which is supported by the National Science Foundation of China and Ministry of Science and Technology of China. He is currently an associate editor of Atmospheric Research and an editorial board member of Journal of Glaciology and Geocryology, and Advances in Climate Change Research.

## BIOGRAPHIES



### **JIANG Yinzhu**

School of Materials Science and Engineering,  
Zhejiang University

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JIANG Yinzhu is a professor at School of Materials Science and Engineering in Zhejiang University, China. He received his Ph.D. degree in Department of Materials Science and Engineering from University of Science and Technology of China in 2007. He worked as a post-doctoral researcher in Heriot-Watt University, United Kingdom from 2007 to 2008 and an Alexander von Humboldt Fellow in Bielefeld University, Germany from 2008 to 2010. His research interests focus mainly on energy-related materials and electrochemistry, including rechargeable batteries, metal anodes and solid electrolytes.



### **FU Chenguang**

School of Materials Science and Engineering,  
Zhejiang University

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Dr. FU Chenguang is currently a ZJU 100 Young Professor at the School of Materials Science and Engineering, Zhejiang University. He obtained his Ph.D. degree from Zhejiang University in 2016 under the supervision of Prof. Tiejun Zhu. After that, he was awarded Humboldt Fellowship by the Alexander von Humboldt Foundation in Germany and worked as a post-doctoral research scientist and later on, a group leader on Topology & Thermoelectrics in Max Planck Institute for Chemical Physics of Solids (Prof. Dr. Claudia Felser's group). His research interest is focused on discovering and developing new materials for energy conversion, especially half-Heusler compounds and topological materials. He has published over 70 papers (with >5000 total citations and an H-index of 33 according to Google Scholar) in the area of thermoelectrics and other energy-related materials. He serves as an academic editor of *The Innovation*.

## BIOGRAPHIES



### XU Xiaoxiang

School of Chemical Science and Engineering, Tongji University

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Prof. XU Xiaoxiang received his bachelor's degree from the University of Science and Technology of China (USTC) in 2006 and his Ph.D. degree from the University of St Andrews in 2010. After receiving his Ph.D. degree, he continued post.doc research at the University of St Andrews and worked as a visiting scholar at the California Institute of Technology. In 2014, he moved to Tongji University and now is a professor in the school of chemical science and engineering. Prof. Xu has been working on solar energy conversion into useful chemicals, such as photocatalytic water splitting into H<sub>2</sub> and O<sub>2</sub>, N<sub>2</sub> photo-fixation into ammonia, etc. His main research interest is perovskite-based inorganic compounds that show intense visible light absorption. He has published more than 100 SCI papers, including Nature Materials, Advanced Materials, Advanced Sciences, ACS Nano, ACS Catalysis, Applied Catalysis B-Environmental, Journal of Materials Chemistry A/C, Small, Journal of Catalysis, etc. He has also been granted 8 patents.

## BIOGRAPHIES



### Egbert Figgemeier

Research Center Jülich/ RWTH Aachen University

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Prof. Figgemeier studied chemistry and did his PhD at the University of Paderborn. This was followed by academic research at the Universities of Dublin, Basel and Uppsala. In 2007 he joined Bayer Technology Services heading the materials and corrosion lab as well as the development of materials for battery applications. From 2012 on, he worked as application development engineer for battery materials at 3M Deutschland responsible for technical support of customers in Germany and Europe. His focus in battery materials was negative electrode materials of the next generation as well as assembly materials for battery backs and modules. Since 2016 he is group leader at the Helmholtz Institute Münster, Forschungszentrum Jülich (section Aachen) and he holds the chair for “Ageing and Reliability of Batteries” at the RWTH Aachen University. His current research activities span from fundamental ageing mechanisms in lithium ion and lithium metal batteries to the development of electrolyte additives and pre-lithiation technologies.

## BIOGRAPHIES



### **YU Minghao**

Chair of Molecular Functional Materials, Technical University of Dresden

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Dr. YU Minghao is the research group leader of the Chair of Molecular Functional Materials at Technische Universität Dresden. He received his doctoral degree in Material Physics and Chemistry from Sun Yat-sen University (China) in June 2017. He joined Technische Universität Dresden under the support of Humboldt Research Fellowship in November 2017. In March 2019, he was appointed as the research group leader. His research interests include (1) Development of novel organic and inorganic 2D materials and novel 2D hybrids; (2) Fundamental electrochemistry study on 2D materials for electrochemical energy storage and electrocatalysis. (3) Functional energy device fabrication including supercapacitors, hybrid-ion capacitors, multivalent metal ion batteries, dual-ion batteries, Zinc-air batteries, and fuel cells. He has published more than 90 scientific articles, which have attracted more than 14,400 citations with H-index of 57 (Web of Science). In 2018-2020, he was awarded of Highly Cited Researchers (Clarivate Analytics).

## BIOGRAPHIES



### **Benjamin Balke**

Department Energy Materials, Fraunhofer Research Institution for Materials Recycling and Resource Strategies IWKS

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Dr. Benjamin Balke is currently the head of Department Energy Materials, Fraunhofer IWKS. He obtained his PhD degree from Johannes Gutenberg-University Mainz under the supervision of Prof. Dr. C. Felser. He was awarded Feodor Lynen Research Fellowship of the Alexander von Humboldt Foundation from 2008 to 2009. He has more than 123 peer-reviewed publications and 24 invited presentations. He has more than 5700 citations by other references with H-index of 36. He is now the Guest Editor for Springer Nature Applied Sciences (Topical Collection: “Materials, Technologies and Strategies for a Circular Economy”). His research interest mainly focuses on Recycling and circular economy concepts for batteries, PV-modules, magnets and fuel cells, material design for thermoelectric applications, solid state physics, solid state chemistry, materials design for magnetic application (half-metallic ferromagnets, spintronics, ferromagnetic semiconductors), Magneto-, Spin-, Elasto-caloric, materials, HAXPES.



### **TAN Rong**

Vice Dean of the School of Public Affairs, Zhejiang University

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Dr. TAN Rong is a professor at the School of Public Affairs (SPA), Zhejiang University. He received a doctorate in management from Nanjing Agricultural University and a doctorate in rerum agriculturarum from the Humboldt University of Berlin. His research focuses on the institutional analysis of the land and natural resources, climate governance, and sustainable development, with theoretical concerns to the levels of social value, institutional environment, governance structure, and interaction between them. He is presently also serving as the SPA's vice dean and the Land Academy for National Development of Zhejiang University.

## BIOGRAPHIES



### **FANG Kai**

School of Public Affairs, Zhejiang University

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Dr. FANG Kai is working as a Tenured Associate Professor at the School of Public Affairs, Zhejiang University. He got his Ph.D. degree from the Institute of Environmental Sciences (CML), Leiden University in 2015. His research is focused on the theoretical and methodological innovation of environmental management and climate policy with implications for sustainable development. He has published 8 books and over 100 articles in peer-reviewed journals (e.g., Environ Sci Technol, Front Ecol Environ, Renew Sust Energ Rev, Appl Energy, Environ Int, Technol Forecast Soc Chang, Ecol Econ), with over 2000 citations. He has been included in the Stanford University's 2020 list of the top 2% scientists in the world, leading several research projects including the Ten-Thousand Talents Program of China, the National Natural Science Foundation of China, the Natural Science Foundation of Zhejiang Province for Distinguished Young Scientists, etc. He is serving as the associate editor of Front Sust, editor of J Chin Gov, guest editor of Resour Conserv Recycl, member of the editorial board of J Clean Prod, and reviewer for over 50 international journals such as Nature. He is also serving in various scientific communities such as the International Society for Industrial Ecology, and the International Society for Ecological Economics.

## BIOGRAPHIES



### GU Baojing

College of Environmental and Resource Sciences,  
Zhejiang University

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Dr. GU Baojing is a professor at College of Environmental and Resource Sciences, Zhejiang University, China. He was trained as an ecologist with an emphasis on biogeochemical nitrogen cycling analysis and modelling from Zhejiang University in China and the University of Alberta and McGill University in Canada. Currently, he is co-leading the cost and benefit analyses of global nitrogen use under the framework of International Nitrogen Management System (INMS) to improve our understanding on the interactions between human and the nitrogen cycles. He has published over 80 papers in peer-reviewed journals, including some top-ranked journals such as *Nature* and *PNAS*.

He attempts to better quantify the cost and benefit of nitrogen use and loss and understand how nitrogen cycling link to policy and management. He found that small farm size potentially leads to overuse of agricultural chemicals with socioeconomic development, and urbanization can release more croplands and benefit food security. Currently, his research interest focuses on sustainable development of agriculture to produce more food with less pollution, involving urbanization and rural development, agricultural resource and environment, policy regulations, management for sustainable development.

## BIOGRAPHIES



### Franz W. Gatzweiler

Institute of Urban Environment, Chinese Academy of Sciences

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Dr. Franz W. Gatzweiler is professor at the Institute of Urban Environment, Chinese Academy of Sciences and Executive Director of the International Science Council's global interdisciplinary science programme on "Urban Health and Wellbeing: a Systems Approach". He studied Agricultural and Institutional Economics at the University of Bonn and the Humboldt University of Berlin in Germany. His doctorate research was on the 'Economic Value of Nature and the Nature of Economic Value'. He has been coordinating chapter lead author for UNEP's report on The Economics of Ecosystems and Biodiversity and recently UNDRR's next Global Assessment Report on Governance of Systemic Risks. Franz Gatzweiler received grants from major German and International foundations, like the Bill and Melinda Gates Foundation for research on managing forest landscapes, biodiversity, poverty and marginality in Subsaharan Africa and South Asia. He is senior fellow at the Center for Development Research, University of Bonn and external affiliated faculty of the Ostrom Workshop, Indiana University. He received his habilitation from Humboldt-University in the field of resource economics 2015. His current research interests include the governance of complex systems and systemic risks.

# BIOGRAPHIES



## Miranda Schreurs

TUM School of Governance, Technical University of Munich

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Prof. Miranda Schreurs (PhD University of Michigan) is Chair of Climate and Environmental Policy at the Bavarian School of Public Policy, Technical University of Munich. She investigates environmental movements, green politics, and climate policy making both comparatively and internationally. She has researched in Europe, the United States and Asia. She also specializes on the politics surrounding the disposal of highly radioactive waste. In 2011, Prof. Schreurs was appointed by Chancellor Angela Merkel as a member of the Ethics Committee for a Secure Energy Supply. In 2016, she was appointed by the German Bundestag as a member of a committee established to bring citizens' voices and ensure greater transparency in the search for a disposal site for highly radioactive waste. She was a member of the German Council on the Environment (2008-2016) and is Vice Chair of the European Advisory Council on Environment and Sustainable Development. She was a Fulbright Fellow to Japan and Germany and spent three years studying at the John F. Kennedy School of Government at Harvard University. She also worked as a professor of comparative politics at the University of Maryland. From 2007 to 2016 she was Director of the Environmental Policy Research Center and Professor of Comparative Policy at the Free University of Berlin.

# BIOGRAPHIES



## Michael Klaus

Hanns Seidel Foundation

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Dr. Michael Klaus is since 2012 chief representative of the Hanns Seidel Foundation Shandong Office and has rich experience in conducting integrated development pilot projects and consultancy for administrations in China. Before coming to China, he worked as an assistant professor in the land management department at the Technical University Munich for 17 years, focusing on course and curriculum development for study programs.

Dr. Klaus has extensive scientific and practical experience in the field of land management, in particular spatial planning, land use planning, real estate cadaster, urban and rural land management, village renewal, as well as community and rural development. As a consultant for the Ministry of Natural Resources, he provides scientifically based advice to central state institutions with a multiplier effect in the field of land management in order to anchor sustainable development of rural areas institutionally. Besides the conception and implementation of training programs for professional development, it includes the planning, implementation, and scientific evaluation of pilot projects. These findings flow into university teaching through teaching assignments and other academic activities such as dialogue programs and symposia. The results are also internationalized and adapted to other countries within a framework of trilateral cooperation.

# BIOGRAPHIES



## Klaus Eisenack

Thaer-Institute of Agricultural and Horticultural Sciences,  
Humboldt University of Berlin

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Klaus Eisenack is professor for resource economics at Humboldt-Universität zu Berlin. His research focuses on adaptation to climate change, climate governance, and the energy transition, with game theory, modelling of institutional arrangements, and comparative approaches (in particular archetype analysis) being methods of choice. He is active in public understanding of science (for instance with the climate change game Keep Cool). He was professor for economics at Carl von Ossietzky University Oldenburg (2008-2016), and scientist at the Potsdam Institute for Climate Impact Research (2001-2008). Klaus Eisenack has a background in mathematics, economics and philosophy, and holds a PhD in mathematics from the Free University Berlin (2006).



## LI Ruicheng

Senior Vice President of SAP and Managing Director of SAP Labs China

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LI Ruicheng is SAP Global Senior Vice President and MD of SAP Labs China. With more than 3,800 employees, SAP Labs China is an innovation powerhouse for SAP globally and in China. Dr. Li has more than 20 years of IT and leadership experience. He has lived and worked around the world, giving him broad exposure to IT and management challenges. He earned a PhD in Physics from Stuttgart, Germany, and an EMBA from the China Europe International Business School in Shanghai. In 2016, he was recognized as an IT Leader in China. Dr. Li sits on the Expert Committee of Intelligent Manufacturing of the China-Germany Alliance sponsored by China's Ministry of Information and Industrial Technology. He is entitled as Guest Professor of Fudan University and Tongji University. He has published articles in several international science magazines and owns several software patents. During his tenure at SAP, he has received the prestigious 'Presidents Award' among several others for his outstanding contributions.

# BIOGRAPHIES



## **Ulf Dressler**

Vice President, Corporate Communications APAC, LANXESS

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Ulf Dressler was born in Cologne, Germany, in 1975. After obtaining a master's degree in business administration from University of Cologne, he joined German specialty chemicals company LANXESS in Tokyo, Japan in 2004.

Over the next decade, he held various managerial positions at LANXESS in Japan and China, including head of Corporate Communications Japan based in Tokyo and head of Marketing Communications Asia-Pacific based in Shanghai.

In January 2015, he founded the Japanese communications consultancy and media firm Bonuterra, taking up the position of Representative Director and CEO.

In September 2018, Dressler returned to LANXESS as Vice President, Corporate Communications APAC. Based in Shanghai, he is leading the company's regional corporate communications program in Asia-Pacific, including Greater China, Japan, Korea, Australia, New Zealand and the ASEAN countries.

Ulf Dressler is married with two children.

## BIOGRAPHIES



### ZHOU Ruhong

Director of Shanghai Institute for Advanced Study,  
Zhejiang University

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Dr. ZHOU Ruhong, AAAS Fellow & APS Fellow, is currently a Qiushi Chair Professor, Dean, Shanghai Institute for Advanced Study, and Director, Institute of Quantitative Biology, Zhejiang University. Prior to join SIAS at ZJU, he was an Adjunct Professor in the Department of Chemistry at Columbia University. His main research interests focus on quantitative biology, biophysics, and bio-nano interface (nanomedicine).

Dr. Zhou has authored and co-authored more than 280 journal publications (including 32 in Science, Nature, Cell, Nature subjournals, and PNAS) with 18000+ citations (H-index 71), and 32 patents, delivered 300+ invited talks at major conferences and universities worldwide. He was part of the IBM BlueGene team that won the 2009 National Medal on Technology (presented by President Obama). He has also won the IBM Outstanding Technical Achievement Award (the highest technical award within IBM; 10 times), the IBM Outstanding Innovation Award (twice). He also won the American Chemical Society DEC Award on Computational Chemistry. He was elected to AAAS Fellow (American Association of Advancement of Science) and APS Fellow (American Physical Society) in 2011.

Dr. Zhou received his PhD in Chemical Physics from Columbia University, MS in Theoretical Physics and BS in Physics both from Zhejiang University.

# COMPANY PROFILE



LANXESS is a leading specialty chemicals company with sales of EUR 6.1 billion in 2020. The company currently has about 14,200 employees in 33 countries. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives, specialty chemicals and plastics. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World and Europe) and FTSE4Good.

On January 31, 2005, the company was initially listed on the Frankfurt Stock Exchange and LANXESS Chemical (China) Co., Ltd. officially started operations. LANXESS now has 13 subsidiaries, 6 R&D centers and 7 production sites with around 1,200 employees in Greater China. LANXESS works closely with its local partners to develop market-oriented solutions that meet local market needs.

Website: <https://lanxess.com/>



SAP: The World's Largest Provider of Enterprise Application Software

## SAP BASIC FACTS

- Headquarters: Walldorf, Germany
- Founded: April 1, 1972
- Listing: Frankfurt, New York
- 100,330 employees worldwide (12/31/2019)
  - >145 nationalities worldwide
  - Employee Engagement Index at 84% in 2018
  - 26.4% women in management
  - >73% of SAP employees are SAP shareholders

## STRATEGY

- SAP is committed to supporting every customer to become a best-run business. We help the world run better and improve people's lives
- Best-run businesses are intelligent enterprises – breaking down silos and adopting intelligent, dynamic, cross-functional business processes to deliver optimal experiences. Our strategy is to be "the Experience Company powered by the Intelligent Enterprise"

Website: <https://www.sap.com/>



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