

## Scientific Recognition: Risk and Resilience

### Invited lectures

#### Love Ekenberg

- Artificial Intelligence? 52nd ICA conference Transforming Nations - from e to d to AI, Finland, September 2018

#### Suanne Hanger-Kopp

- Basic guidance on risks and uncertainties associated with the transition to low-carbon energies. Policy dialogue on sustainability and resilience of bioenergy: Connecting policymakers and researchers, Bappenas, Jakarta, Indonesia, February 2018

#### Stefan Hochrainer-Stigler

- Integrating individual and systemic risks into decision-making processes. IRGC workshop, Potsdam, Germany, November 2018
- The usefulness of copula approaches for disaster risk assessment and management. Society of Operations Research (OEGOR) Workshop, University of Vienna, Austria, November 2018
- Copula approaches for the assessment and management of critical infrastructure resilience. Joint OECD-EU Joint Research Centre (JRC) workshop, System thinking for critical infrastructure resilience, Paris, France, September 2018
- Copula approaches for resilience measurements: Applications on drought risk. Conference on navigating systemic risks and opportunities at the land-water-energy-climate-security nexus, Edmund Mach Foundation, San Michele All'Adige, Italy, July 2018
- Evaluation and impact assessment challenges of Systemic Risks. Cambridge Conference on Catastrophic Risk, Cambridge, UK, April 2018
- Climate risk and metrics for climate adaptation. The 2nd Global Adaptation Network Forum, Abu Dhabi, The United Arab Emirates, March 2018

#### Adriana Keating

- 'Identifying and Measuring Resilience' at Resilient Nation. A commentary on Australian Resilience in the 21st Century, RMIT University, March 2018

#### Wei Liu

- Serious games and simulation – Integrating systems thinking into school nature education. The 5th National Nature Education Forum, Chengdu, China, November 2018
- Resilience of complex socio-techno-ecological systems - From science to practice. Peking University, Beijing, China, November 2018
- Multi-stakeholder partnership and polycentric governance for climate and disaster resilience in the third pole. Third Pole Environment in the 2018 Arctic Circle Assembly, Reykjavik, Iceland, October 2018
- From disaster risk reduction to disaster resilience: A systems perspective on the why, what and how. University of Vienna OeRISK Lecture, Vienna, Austria, October 2018
- Conservation, education, and livelihood – An integrative approach for sustainable development in Sichuan Giant Panda Sanctuary world heritage. Sino-German Workshop on Heritage Conservation for Sustainable Development, Berlin, Germany, September 2018
- Resilience principles in agroecosystem management. Chinese Academy of Sciences Agriculture Resource Research Center, Shijiazhuang, China, July 2018
- Chinese mass and social media coverage of synthetic biology – A wicked problem in need for anticipatory risk governance? The Fourth Synthetic Biology Youth Scholar Forum, Shenzhen, China, July 2018
- Building resilience in uncertain urban environments. Shenzhen Urban Planning and Land Resources Research Center 10th Anniversary Lecture Series, Shenzhen, China, May 2018
- Participation and partnership for community resilience. African Climate and Development Institute, University of Cape Town, Cape Town, South Africa, January 2018

#### Reinhard Mechler

- Crowdsourcing risk and measuring resilience: Insights from the Zurich Flood Resilience Alliance (with Madhab Uprety). American Geophysical Union. NASA session Connecting Earth Sciences and Risk Financing and Transfer, Washington DC, USA, December 2018
- IPCC's Special report on 1.5°C Warming on Loss and Damage. DIE session on Loss and Damage. Development and Climate Days, Katowice, Poland, December 2018
- Three equity principles for organising climate risk insurance. DIE session on Climate risk insurance. Development and Climate Days, Katowice, Poland, December 2018

- Generating multiple resilience dividends for managing unnatural disasters in Asia? Asian Development Bank Workshop. Ripples in Space and Time—The dynamic interplay of disaster risk and socio-economic development in Asia. Asian Development Bank, Manila, Philippines, December 2018
- Adaptation in the context of the IPCC Special Report 1.5°C. International Conference on Adaptation Metrics for Agriculture, Water and Resilient Cities. Mohammed VI University, Benguerir, Morocco, October 2018
- Klimafolgen, Anpassung und Grenzen. Climate Change Center Austria IPCC Launch event on 1,5°C globale Erwärmung – Zukunftsdialog Österreich. Vienna, Austria, October 2018
- A climate risk management framework for loss and damage for India. National Workshop on Economic Costs of Climate Change in Rural India. Madras School of Economics, Chennai, India, July 2018
- Research for the Flood Resilience Alliance, Zurich, Switzerland, July 2018
- Understanding systemic risk and limits to adaptation. Workshop on Reducing Disaster Risks under Environmental Change, Knowledge-Action Network on Emergent Risks and Extreme Events, ICSU, Paris, France, June 2018
- Citizen science and crowdsourcing for DRR. NASA Session on From Space to Finance: A New Framework for Earth Observation, Humanitarian, and Insurance Sectors. Understanding Risk Conference, Mexico City, Mexico, May 2018
- A perspective on risk layering to operationalise climate risk management. GIZ Session on Comprehensive Climate Risk Management – Dealing with Climate-related loss and damage. Understanding Risk Conference, Mexico City, Mexico, May 2018
- Climate Loss and Damage? Perspectives on the science and policy debate (with Laurens Bouwer), European Geophysical Union Conference, Vienna, Austria, April 2018
- Perspective on risk layering to operationalise climate risk management. UNFCCC Warsaw Mechanism on Loss and Damage, UNFCCC, Bonn, Germany, March 2018
- Risk financing as part of risk management. Deutsches Institut für Entwicklungspolitik, Bonn, Germany, March 2018
- Loss and Damage from Climate Change. GIZ, Bonn, Germany, March 2018

### Georg Pflug

- Distributional robustness for multiperiod stochastic programs. BIRS, Banff, Canada, March 2018
- Measuring systemic risk. EWGCFM in Kaunas, Lithuania, May 2018
- Stochastic shape optimization. HU, Berlin, Germany, May 2018
- Generation of scenarios for multistage stochastic optimization CMS. Trondheim, Norway, May 2018
- Valuation of a power plant by stochastic dynamic optimization. VA Energy, Castro Urdiales, Spain, June 2018
- Stochastic optimization in Hilbert spaces with applications to shape optimization. VOCAL Esztergom, Hungary, December 2018

### Sebastian Poledna

- Economic forecasting with an agent-based model. De Nederlandsche Bank, Amsterdam, The Netherlands, March 2018
- Economic forecasting with an agent-based model. Complexity in Economics Seminars, Tinbergen Institute, Amsterdam, The Netherlands, February 2018
- Assessing cascading disaster losses with an agent-based model: An application to floods in Austria. Cascading Disasters: Theory, Methods and Empirics International workshop, Haifa, Israel, November 2018
- How to estimate the risk of cascading flood losses: the Austrian case. Cascading Disasters: Theory, Methods and Empirics International workshop, Haifa, Israel, November 2018

### Thomas Schinko

- Applying recent insights from climate risk management to kick-start the operationalization of the Loss and Damage mechanism. European Consortium for Political Research (ECPR), Hamburg, Germany, August 2018

### Piotr Magnuszewski

- Simulating Sustainable Development Goals (SDGs) in the context of external relations and foreign policy. Workshop for the European External Action Service, European Commission, Brussels, Belgium, April 2018
- Nexus Game at the Southern African Systems Analysis Centre's emerging researchers program. Wits Rural Facility, South Africa, August 2018
- Migraspectives: Performance by a group of artists and scientists – a dance theatre game, Laxenburg, Austria, September 2018
- Simulation games as tools for learning about sustainability. Balaton Group Meeting, Hungary, September 2017
- Dancing with the future, a performance pushing the boundaries of art and science, mixing dance, evolutionary dynamics, and an interactive game. Developed in cooperation the Program for Evolutionary Dynamics (PED) of Harvard University. The performance was presented at Harvard University and then during the International Conference on Sustainable Development, New York, USA, September 2018

## Organized events

### Susanne Hanger-Kopp

- Lecture series: Delivering on the Sustainable Development Goals: Systems analytical perspectives on strategies and trade-offs. Institute for Social Ecology, University of Klagenfurt, Klagenfurt, Austria, October 2018–January 2019

### Stefan Hochrainer-Stigler

- Conference of the International Society for Integrated Disaster Risk Management, Sydney, Australia, October 2018

### Wei Liu

- Training workshop on climate adaptation in China. Organized by WWF-China and hosted by Chinese Academy of Agricultural Sciences, Beijing, China, September 2018
- Workshop on assessing impacts of large-scale road and infrastructure development across spatio-temporal scales on natural capital and biodiversity in Africa. African Climate and Development Institute, University of Cape Town, South Africa, January 2018

### Reinhard Mechler

- Book launch Loss and Damage. London School of Economics, London, UK, September 2018

### Junko Mochizuki

- Panel Sessions on Humanitarian Assistance, 9th IDRIIM Conference, Sydney, Australia, 2018

### Georg Pflug

- Coorganizer of the Oberwolfach conference New Directions in Stochastic Optimization, August 2018

### Thomas Schinko

- Workshop on Fiscal Effects of Climate-related Risks and Climate Policy. Organized by IIASA and Joint Vienna Institute (JVI) as part of the Inclusive Growth Course, Vienna, Austria, November 2018
- 1st annual workshop for young Climate Change Center Austria (CCCA) researchers. University of Natural Resources and Life Sciences, Vienna, Austria, November 2018
- Flood risk role-play simulation workshop for disaster risk management policy and practice, Lienz, Austria, June 2018
- Drought risk role-play simulation workshop for disaster risk management policy and practice, Innsbruck, Austria, December 2018
- Brace yourself, climate change is here - Klimagerechte Wege zum 1,5°C Ziel. Joint workshop with the Climate Change Center Austria (CCCA) at the 1st Local Conference of Youth (LCOY) Austria conference, Vienna, Austria, November 2018

## Advisory boards

### Love Ekenberg

- Learning for Design
- Member of the Board, Swedish Association for Distance Education
- Member of the Board, Institute for International Economic Studies, Sweden
- Member of the Board, Faculty of Social Sciences, Stockholm University
- Chairman of the Board, eGovLab, Sweden

### JoAnne Linnerooth-Bayer

- Steering Committee member of the Austrian Climate Research Programme
- Munich Climate Insurance Initiative Board
- Climate Risk Adaptation and Insurance Executive Board
- IDRIIM Scientific committee

### Wei Liu

- Special Advisor, Ant Forest Program, Ant Financial Services Group (an affiliate company of the Alibaba Group), China
- Expert Committee Member, UNESCO-China Youth Development Foundation Mercedes-Benz Star Fund FIT Program on Conservation and Management of World Heritage Sites in China

### Reinhard Mechler

- Management Board-Climate Centre Austria (CCCA)
- Scientific Steering Committee- Basque Centre for Climate Change (BC3)

- Alliance Management Team, Flood Resilience Alliance
- Development team of Knowledge Action Network on Extreme Events and Emergent Risks, Future Earth, IRDR and WCRP

### Thomas Schinko

- Chair of the Climate Change Center Austria's (CCCA) Young Scientist Working Group

## Editorships

### Love Ekenberg

- Special edition of *Journal of Mathematical Problems in Engineering*
- *EURO Journal on Decision Processes*
- *The International Journal on Advances in ICT for Emerging Regions*
- *The International Journal of Public Information Systems*
- *The Journal of Risk Research*
- Review Committee Member, *Learning for Design*
- *The International Journal of Public Information Systems*

### Suanne Hanger-Kopp

- Guest co-editor: Special Issue: Assessing [risks and uncertainties of low-carbon transition pathways](#), *Environmental Innovation and Societal Transitions*

### Stefan Hochrainer-Stigler

- Series Editor, *Disaster and Risk Research: GADRI Book Springer Series*.
- Editorial Member, *Russian Journal of Earth Sciences*
- Editorial Member, *International Journal of Climate Change Strategies and Management*
- Editorial Member, *Integrated Disaster Risk Management (IDRiM) Journal*

### JoAnne Linnerooth-Bayer

- Associate Editor, *Journal of Risk Research*
- Associate Editor, *Risk analysis*
- Editorial Board, *Integrated Disaster Risk Management*
- Editorial Board, *Economics of Disasters and Climate Change*

### Wei Liu

- Editorial Board Member, *Socio-Environmental Systems Modeling (SESMO)*
- Guest Coeditor, *Frontiers in Earth Science, Citizen Science: Reducing Risk and Building Resilience to Natural Hazards*

### Reinhard Mechler

- Editorial Board, *Climate Risk Management*
- Editorial Board, *Mitigation and Adaptation Strategies for Global Change*
- Editorial Board, *Economics of Climate Change and Disasters*

### Georg Pflug

- Associate Editor:
  - *Stochastic Programming Electronic Publication Series*
  - *Central European Journal of Operations Research*
  - *Austrian Journal of Statistics, Mathematics of Operations Research (1994 - 1997)*
  - *Mathematical Methods of OR*
  - *Computational Optimization and Applications*
  - *Computational Management Science*
  - *Energy Systems: Optimization, Modeling, Simulation and Economic Aspects*
  - *Journal of Stochastic Analysis*
  - *Financial Mathematics and Applications*
  - *Operations Research*
  - *Statistics and Risk Modeling*
- Guest editor, *CEJOR* special volume on Modelling and management of commodities and financial markets

**Muneta Yokomatzu**

- Editor in Chief, *Journal of Natural Disaster Science*
- Editorial Board Member, *Journal of Japan Society of Civil Engineers*