

# 2005 IRGC GENERAL CONFERENCE (BEIJING, 20 & 21 SEPTEMBER)

Tuesday 20<sup>th</sup> September 2005

## **Opening addresses and welcome speeches**

- Liu Yanhua, Vice-Minister for Science and Technology of the People's Republic of China
- Mosibudi Mangena, Minister of Science and Technology, Republic of South Africa
  - *Welcome Speech*
- Li Yizhong, Minister, State Administration of Work Safety, People's Republic of China
- George Atkinson, Science and Technology Advisor to the Secretary of State, USA
  - *Science and Technology in 21<sup>st</sup> Century Global Affairs*
- Chair: José Mariano Gago, Minister for Science, Technology and Higher Education, Portugal, and President of the IRGC Board

## **Trans-boundary risks: why do they need a different approach?**

- Patrick Lagadec, Director of Research, Ecole Polytechnique, Paris, France
  - *Trans-boundary Risks and Crises: Paradigm Shift – Strategic Jump*
- Huang Ping, Professor and Director-General of the Chinese Academy for Social Sciences
- Howard Kunreuther, Professor of Decision Sciences and Business and Public Policy, Wharton University of Pennsylvania, Philadelphia, USA
  - *You Can Only Die Once – Risk Analysis and Risk Management in an Interdependent World*
- Chair: Michael Osborne, Director, OECD Advisory Unit on Multidisciplinary Issues

## **IRGC's guidance for risk characterisation and risk governance – a framework for improved risk-related decision-making**

- Ortwin Renn, Professor of Environmental Sociology, University of Stuttgart, Germany
  - *Risk Governance: Towards an Integrative Framework*
- Joyce Tait, Director, ESRC Centre for Social and Economic Research on Innovation in Genomics (Innogen), University of Edinburgh, UK
  - *Innovation, Risk and Stakeholder Engagement: Framing New Technology*
- Nikolay Makhutov of the Institute of Mechanical Engineering Research, Russian Academy of Sciences
  - *Development and Application of Risk Management Methods for Ensuring Industrial Safety and Technological Regulation in Russia*
- Chair: Christian Mumenthaler, Chief Risk Officer and Member of the Executive Board, Swiss Re

## **Climate change: decision-making under irreducible uncertainty**

- Ola Johannessen, Nansen Environmental and Remote Sensing Center, Norway
  - *Climate Changes – Monitoring an Energy-driven Planet*
- M. Granger Morgan, Professor of Engineering and Public Policy, Carnegie Mellon University, Pittsburgh, USA
  - *Climate Change – Decision Making under Irreducible Uncertainty*
- Lin Erda, Professor and former Director General of the Agricultural Environment and Sustainable Development Institute, Chinese Academy of Agricultural Sciences
  - *Climate Change: Building the Adaptive Capacity for Risk Mitigation of Food Production*
- Chair: Björn Stigson, President, World Business Council for Sustainable Development (WBCSD)

## **Critical infrastructures at risk: the need for participative multi-stakeholder decision-making to ensure service continuity**

- Margot Weijnen, Professor of Process and Energy Systems Engineering, Delft University of Technology, The Netherlands
  - *Coping with Critical Infrastructures – Steering Multi-actor Decision Making*
- Hirokazu Tatano, Disaster Prevention Research Institute, Kyoto University, Japan
- Marcelo Masera, Institute for the Protection and Security of the Citizen, European Commission Joint Research Centre, Ispra, Italy
  - *Critical Infrastructures and European Policies*
- Chair: Wolfgang Kröger (IRGC Founding Rector), Professor of Safety Technology, Swiss Federal Institute of Technology, Zurich

## **Conference dinner**

- Host: Liu Yanhua, Vice-Minister for Science and Technology of the People's Republic of China
- Guest speaker: Donald Johnston, OECD Secretary-General
  - *Dinner Speech*

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**Special session: risk governance and sustainable development in the People's Republic of China**

- He Xueqiu, Professor, China University of Mining and Technology
  - *Situations of Work Safety and Accidents Control in China*
- Shi Peijun, Deputy Director of Beijing Normal University
  - *Study on Integrated Natural Disaster Risk Governance: from Disaster to Benefit*
- Xue Lan, Deputy Director of the School of Public Policy and Management, Tsinghua University
  - *Crisis Management in China: the Challenge of Transition*
- Chair: Wang Yuan, Director of the Chinese National Research Centre for Science and Technology for Development

**Risk governance for emerging technologies**

- Ib Knudsen, Chief Adviser in Food Safety and Toxicology, Institute of Food Safety and Nutrition, Ministry of Food, Agriculture and Fisheries, Denmark
  - *The Process of Weighing and Integrating Quality-of-Life Parameters into the Risk-benefit Analysis of Food/Food Production Systems*
- Wolfgang Wälischmiller, President, Hans Wälischmiller GmbH, Germany
- Peter Sutherland, Head of Group Risk and Compliance, Insurance Australia Group
  - *Emerging Technologies – An Insurer Perspective*
- Hebe Vessuri, Head of the Department of Science Studies at the Venezuelan Institute of Scientific Research
  - *Risk Governance of the Technological Meta-convergence*
- Chair: Charles Kleiber, State Secretary, Secretariat for Education and Research, Switzerland

**Understanding and managing the new challenges for human health, safety and the environment**

- Henk Bekedam, World Health Organisation representative in China
  - *Defending against Infectious Diseases and Biological Threats*
- Hou Yunde, Director, State Center for Viro-BioTech Engineering and State Key Laboratory for Molecular Virology and Engineering, Beijing, People's Republic of China
  - *Virology Risk Governance in Developing Countries*
- Jeff McNeely, Chief Scientist, World Conservation Union
  - *Managing the Risk of Nature Tourism*
- Chair: Harvey Fineberg, President of the Institute of Medicine of the National Academies, USA

**Natural Disaster Risk Management – from ideas to action**

- Norio Okada, Professor, Disaster Prevention Research Institute at Kyoto University, Japan
- Koko Warner, Swiss Federal Institute for Snow and Avalanche Research, Davos
  - *Risk Reduction Strategies: from Ideas to Action*
- Joanne Linnerooth-Bayer, Risk, Modeling and Society Project, International Institute for Applied Systems Analysis, Austria
  - *Financial Risk Management of Natural Disasters*
- Chair: Adolf Birkhofer, Institute for Safety and Reliability GmbH at the Technical University of Munich, Germany

**Panel and floor discussion: actions for the risks of today and tomorrow**

- Jean-Pierre Contzen, Chair Professor, Technical University of Lisbon, Chairman, Von Karman Institute for Fluid Dynamics, and Chairman, Institute of Advanced Studies, UN University, Japan
  - *A few (Real-time) Thoughts about this Conference: How Does it Impact on IRGC Future Activities?*
- Rosie Cooney, Project Coordinator, Precautionary Principle Project, UK
  - *Concluding Thoughts: Where are the Ecosystems?*
- Xue Lan, Deputy Director of the School of Public Policy and Management, Tsinghua University, China
- Chair: KunMo Chung, President, Korean Academy of Science and Technology

**Closing remarks and conference closure**

- L Manning Muntzing, Director, Energy Strategists Consultancy Ltd, Washington DC, USA
  - *Closing Remarks*