



**European Academy of Sciences and Arts**  
**German-Japanese Society for Integrative Sciences**

**Symposium**  
***Complexity & Integration***  
***in Nature and Society***

March 1<sup>st</sup>, 2019  
Juridische Fakultät der Universität Salzburg  
Churfürststraße 1  
Hörsaal 206  
5020 Salzburg

**PROGRAMME**

- 08.00 – 08.10     **Opening**  
Felix Unger, President of the European Academy of Sciences and Arts
- 08.10 – 08.30     **Introduction**  
Klaus Mainzer: *Complexity and Integration in Nature and Society*

**Complex Systems in Physical, Environmental, and Life Sciences**

- 08.30 – 08.45     Giulio Casati: *What is Chaos that we should be mindful of it?*
- 08.45 – 09:00     Marko Robnik: *Complex Behaviour in Classical and Quantum Chaos*
- 09.00 – 09.15     Arturo Carsetti: *Complexity, Self-organization and Morphogenesis in Life Sciences*
- 09.15 – 09.30     Juan Perez-Mercader: *Biologically Inspired Chemically Operated Synthetic Systems (BICHOSS): building complexity in the laboratory from simple parts*
- 09.30 – 09.45     Marc Thorsten Hütt: *Understanding biological complexity – the value of Systems Biology*
- 09.45 – 10.00     Edmond Pinguli, Nasho Pinguli: *Climate Change and Global Warming. Water Scarcity in the World and in Albania*
- 10.00 – 10.15     Hans-Martin Sass: *Biocomplexity, Bioethics and Integration*
- 10.15 – 10.30     COFFEE BREAK

**Complex Systems in Medicine and Psychology**

- 10.30 – 10.45     Simon John Simonian: *Complexity in Medicine and Psychology*
- 10.45 – 11.00     Zoran Kovačević: *Cancer as Paradigm of Complex Diseases*
- 11.00 – 11.15     Marjan Slak Rupnik: *Complex Systems in Diabetes*
- 11.15 – 11.30     Patriciu Achimaş-Cadariu: *Complex Systems in Oncology: A Case for Ovarian Cancer*
- 11.30 – 11.45     Günter Schiepek: *Complexity and Integration in Psychological Medicine*
- 11.45 – 12.00     Ernst Pöppel: *Time Windows for Complexity Reduction in Neural Information Processing*
- 12.00 – 12.15     Yan BAO: *Complexity Reduction in Visual Information Processing with Different Attention Mechanisms*
- 12.15 – 13.15     LUNCH BREAK

- 13.15 – 13.30 Uwe an der Heiden: *The Complex Integrative Function of Human Memory from a Psychoneurological Perspective*
- 13.30 – 13.45 Viktor Jirsa: *Translational Neuroscience: from bifurcations to personalized medicine*
- 13.45 – 14.00 Türker Kiliç: *What Brain Research has taught us about what Life is*

#### **Complexity & Integration in Technical, Economic, and Social Sciences**

- 14.00 – 14.15 Gudar Beqiraj, Neki Frasheri: *Internet Complexity and Social Integration*
- 14.15 – 14.30 Mihail C. Roco: *Principles of Convergence in Nature and Society: with Illustration to Converging Technologies*
- 14.30 – 14.45 Markus C. Müller: *Complexity and Divergent Economic Policy Preferences – Can Governments anticipate and engineer Optimal Solutions to Popular Demands?*
- 14.45 – 15.00 Hans G. Danielmeyer: *Complexity and Integration – Understanding the Industrial Society with Quantitative Forecasting Quality*
- 15.00 – 15.15 Mirsad Hadžikadić: *A Complex System Model of an Identity-based Conflict in Developing Nations*
- 15.15 – 16.00 Thomas Reuter: *The Principle of 'Unity in Diversity' as a Measured Response to Resurgent Nationalism: Valuing Local Diversity as well as Global Citizenship is not a Contradiction*
- 16.00 – 16.15 COFFEE BREAK

#### **Complexity & Integration in Humanities and World Religions**

- 16.15 – 16.30 Michael von Brück: *Complexity and Integration of/in Religion, Ecology, and Ethics*
- 16.30 – 16.45 Annette Noller: *Intercultural Complexity and Integration of Ethics*
- 16.45 – 17.00 Hans-Ferdinand Angel: *Credition - The Believing Process as a Highly Complex Phenomenon*
- 17.00 – 17.15 Harald Holz: *Complexity and Integration in the History of Ideas. Example: Origin of Christian Dogmatics*
- 17.15 – 17.30 Yutaka Tanaka: *Clash of Civilizations and Ways of Religious Coexistence: Christianity and Japan after the Meiji Restoration*
- 17.30 – 17.45 Archbishop Felix Machado: *The Cared Earth is the Common Home for the Family which is the Basic Cell of Society: a Catholic Perspective*
- 17.45 – 18.00 Abbot Nissho Takeuchi: *Wholeness and Variety in Buddhist Perspective*
- 18.00 Discussion
- 18.30 Closing

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