

Scientific Recognition: Evolution and Ecology

Awards

Akira Sasaki

- Elected President of Japanese Society for Mathematical Biology for the term 2017-2018

Karl Sigmund

- Bundesministerium für Wissenschaft und Forschung (Austrian Federal Ministry for Science and Research), Wissenschaftsbuch des Jahres 2016 (Scientific Book of the Year 2016)

Invited lectures

Peter Bednarik

- IIASA, Laxenburg, Austria, Cooperation, Social Behavior, and Personality Types Symposium: Managing a common forest: Insights from an experimental game
- Faculty of Mathematics, Physics and Informatics, Department of Applied Mathematics and Statistics, Comenius University, Bratislava, Slovakia: Discretized best-response dynamics for cyclic games

Gergely Boza

- Max Planck Institute for Evolutionary Biology, Plön, Germany, Conflict, Competition, Cooperation, and Complexity Workshop: The stability of cooperation in different situations: With reactive investment strategies, in N-person public good games, and with spatial population structure
- Institute for Advanced Studies Köszeg, Köszeg, Hungary, Cooperation and Conflict Symposium: Reactive social behavior: Models and reality
- IIASA, Laxenburg, Austria, Cooperation, Social Behavior, and Personality Types Symposium: Reactive social behavior: Models and reality

Åke Brännström

- IIASA, Laxenburg, Austria, Cooperation, Social Behavior, and Personality Types Symposium: The role of synergy and group size in the evolution of cooperation

Célian Colon

- IIASA, Laxenburg, Austria, Cooperation, Social Behavior, and Personality Types Symposium: Systemic risks and cascading disruptions in complex supply chains

Ulf Dieckmann

- International Center for Theoretical Physics (ICTP) & South American Institute for Fundamental Research (SAIFR), São Paulo, Brazil, ICTP-SAIFR School on Physics Applications in Biology: Understanding complex adaptive systems & Features of complex adaptive systems & Modelling frameworks & Adaptive dynamics & Adaptive speciation
- Department of Industrial Engineering and Management, College of Engineering, Peking University, Beijing, China: Incentive design for promoting cooperation
- Department of Ecology, College of Urban and Environmental Sciences, Peking University, Beijing, China: Models of biodiversity dynamics
- IIASA, Laxenburg, Austria, Southern African Systems Analysis Centre (SASAC) working session at IIASA: Understanding complex adaptive systems
- IIASA, Laxenburg, Austria, AFI-WWF-Nat Cap-Guggenheim Partners meeting: Science to support sustainable fisheries
- IIASA, Laxenburg, Austria, Planning meeting of the Dynamic vegetation models – The next generation cross-cutting project: Eco-evolutionary modeling
- IIASA, Laxenburg, Austria, Cooperation, Social Behavior, and Personality Types Symposium: First carrot, then stick: How the adaptive hybridization of incentives promotes cooperation
- SASAC – University of the Witwatersrand, Johannesburg, South Africa, SASAC High-level Capacity Strengthening Programme: Understanding complex adaptive systems & Mini-course on systems dynamics (6 hours)
- Ulsan National Institute of Science and Technology, Ulsan, South Korea: Understanding complex adaptive systems
- Seoul National University, Seoul, South Korea: Eco-evolutionary Dynamics: From individuals to ecosystems
- Ewha Womans University, Seoul, South Korea: The overlooked evolutionary dimension of modern fisheries
- Complexity Science Hub, Vienna, Austria, KLI-IIASA-CSH Workshop Approaches to the Evolution of Complex Systems: Modeling biodiversity dynamics

- University of Koblenz-Landau, Landau, Germany, International Expert Meeting on “The Definition and Dissemination of Systems Thinking”: Science for global insight: An overview of IIASA & Understanding complex adaptive systems
- IIASA, Laxenburg, Austria, An Introduction to Applied Systems Analysis and to IIASA for a delegation from universities of the Russian Federation: Understanding complex adaptive systems & Mini-course on systems dynamics (6 hours)
- Biodiversity Research Center, Academia Sinica, Taipei, Taiwan, Winter Symposium of Evolutionary Ecology: Adaptive dynamics theory: Understanding life-history evolution, niche construction, and speciation
- Research Center of Climate Change and Sustainable Development, National Taiwan University, Taipei, Taiwan: Complex adaptive systems at the interface of ecology and evolution: An integrative overview

Mikko Heino

- Biodiversity Research Center, Academia Sinica, Taipei, Taiwan, Winter Symposium of Evolutionary Ecology: Changes in age and size at maturation of cod: Plasticity and evolutionary change disentangled
- Institute of Oceanography, National Taiwan University, Taipei, Taiwan: Could integrated assessments reconcile stakeholder conflicts in managing renewable natural resources?

Christina Kaiser

- Gordon Research Conferences, University of New England, Biddeford, USA, Gordon Research Conference on Unifying Ecology Across Scales – Linking the Levels from Physiological to Ecosystem Ecology: Understanding emergent phenomena of soil microbial communities using individual-based modelling

Johan A.J. Metz

- Centre for Society and the Life Sciences, Radboud University, Nijmegen, Netherlands, Founding meeting of the Dutch-Flemish Working Group on the Philosophy of Biology, around the theme “The role of axiomatic approaches in biology and evolutionary theory”: Evolutionary demography, with a focus on states
- Department of Mathematics and Statistics, University of Helsinki, Finland, The Mathematics of Life – conference on the occasion of the 60th birthday of Mats Gyllenberg: Branching for multivariate traits, attempts to get a fuller grip on adaptive speciation
- École Normale Supérieure, Paris, France, Paris Fitness Workshop: Invasion fitness and fitness proxies, with some musings about metapopulations
- Complexity Science Hub, Vienna, Austria, KLI-IIASA-CSH Workshop Approaches to the Evolution of Complex Systems: Organismal complexity and selection & how observations can be misinterpreted due to the complexity of the evolutionary process
- Turku, Finland, Helsinki Summer School on Mathematical Ecology and Evolution – an EMS-ESMTB School in Applied Mathematics: Adaptive dynamics: Studying the change of community dynamical parameters through mutation and selection & Invasion fitness and fitness proxies & The canonical equation of adaptive dynamics Part I: Derivation & The canonical equation of adaptive dynamics Part II: Effective population sizes & The canonical equation of adaptive dynamics Part III: A (toy) example & Bifurcation in adaptive dynamics: Some examples & Branching for multivariate traits: Attempts to get a fuller grip on adaptive & Meso-evolutionary predictions derivable from the interplay between ecology and evolution
- Centre for Ecological and Evolutionary Synthesis, University of Oslo, Norway: Discussion workshop Biotic Drivers of Macroevolution: Discussion leader

Kalle Parvinen

- Department of Mathematics and Statistics, University of Helsinki, Finland, The Mathematics of Life – conference on the occasion of the 60th birthday of Mats Gyllenberg: Metapopulation reproduction ratio and adaptive dynamics in metapopulations
- University of Nottingham, UK, 2016 Joint meeting of the European Society for Mathematical and Theoretical Biology and the Society for Mathematical Biology: On evolutionary branching in spatial models

Akira Sasaki

- Institute of Statistical Mathematics, Tachikawa, Japan, 2016 Summer Boot Camp of Infectious Disease Modeling: Evolutionary epidemiology, 2016

Karl Sigmund

- 2016 CIRAD Conference on Mathematical Modelling and Control of Communicable Diseases, Foundation Getulio Vargas, Rio de Janeiro, Brazil: A mini-course on evolutionary games
- Pierre and Marie Curie University, Paris, France: Partners and rivals
- Hanse-Wissenschaftskolleg Institute for Advanced Studies, Delmenhorst, Germany: The evolution of cooperation
- University of Helsinki, Finland: Partners and rivals
- 27th Nordic Congress of Mathematicians, Stockholm, Sweden: Partners and rivals
- Peter Wall Institute, University of British Columbia, Vancouver, Canada: Partners and rivals & Gödel, Einstein, Mach
- Royal Swedish Academy, Stockholm, Sweden: Rationality paradoxes in game theory
- Ernst Mach Centenary Conference 2016, University of Vienna, Austrian Academy of Sciences, Vienna, Austria: Mach and geometry

- Czech Academy of Sciences, Prague, Czech Republic: Partners and rivals
- Center for Arts and Media, Karlsruhe, Germany: The Vienna Circle and its parallel circle
- Austrian Research Promotion Agency Pro Scientia, Raabs an der Thaya, Austria, 2016 Summer Academy: Randomness in evolution
- Italian Society for Chaos and Complexity, Polytechnic University of Milan, Italy, 11th SICC International Tutorial Workshop Topics in Nonlinear Dynamics – Paradigmatic Models in Social Sciences: Via freedom to coercion
- Konrad Lorenz Research Station, Grünau, Austria: The most perfect of domestic animals
- Austrian Academy of Sciences, Vienna, Austria: Political arithmetics

Henrik Sjödin

- IIASA, Laxenburg, Austria, Cooperation, Social Behavior, and Personality Types Symposium: The formation of structured cooperative communities

Sergio Rinaldi

- University of Catania, Italy, 2016 Workshop on Complexity in Engineering: Conflicts among N armed groups: Scenarios from a new descriptive model
- Department of Electronics, Information, and Bioengineering, Polytechnic University of Milan, Italy, Paradigmatic Models in Social Sciences: Models of dynamical systems: Asymptotic regimes, multiple attractors, bifurcations, and catastrophes & Falling in love: From indifference to romantic regimes & Political corruption in democratic societies & Francis Petrarch and the transition from the Middle Ages to Humanism

Organized events

Gergely Boza

- Cooperation, Social Behavior, and Personality Types Symposium, IIASA, Laxenburg, Austria, July 28, 2016

Ulf Dieckmann

- Working Group on Fisheries-induced Evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES), IMARES, Wageningen University, IJmuiden, Netherlands, February-March 2016
- WGEVO of the ICES, IIASA, Laxenburg, Austria, October 2016

Johan A.J. Metz

- Workshop Game Theory and Evolutionary Biology – Exploring Novel Links, Lorenz Centre, Leiden, Netherlands, April 2016

Sergio Rinaldi

- 11th SICC International Tutorial Workshop Topics in Nonlinear Dynamics: Paradigmatic Models in Social Sciences, Italian Society for Chaos and Complexity, Polytechnic University of Milan, Italy, September 2016

Akira Sasaki

- International Symposium on Molecular Basis of Virus-Host Interactions, Sapporo, Japan, October 2016

Advisory boards

Åke Brännström

- Project assessment team for PUNKTUM - Pedagogical development for curiosity and creativity at Umeå University

Ulf Dieckmann

- WGEVO of the ICES

Mikko Heino

- WGEVO of the ICES

Karl Sigmund

- European Research Council Advanced Grants Jury: Mathematics
- Advisory Board of the Vienna Science and Technology Fund

Editorships

Åke Brännström

- *Frontiers in Ecology and Evolution* – Review editor

Ulf Dieckmann

- *Journal of Evolutionary Medicine*

Mikko Heino

- *Ecology Letters*
- *ICES Journal of Marine Science*

Christina Kaiser

- *Soil Biology and Biochemistry*

Johan A.J. Metz

- *Acta Biotheoretica*

Sergio Rinaldi

- *International Journal of Bifurcation and Chaos*

Akira Sasaki

- *Journal of Theoretical Biology*

Karl Sigmund

- *International Journal of Bifurcation and Chaos*
- *Dynamic Games and Applications*