

Scientific Recognition: Evolution and Ecology

Awards and other scientific distinctions

Åke Brännström

- Docent at the Faculty of Technical and Natural Sciences, Umeå University, Sweden

Mikko Heino

- Member of Academia Europaea

Rupert Mazzucco

- Senior Research Fellow at the Department of Microbiology and Ecosystem Science, University of Vienna, Austria

Invited lectures

Gergely Boza

- National Natural Science Foundation of China (NSFC) and International Institute for Applied Systems Analysis (IIASA), Beijing, China, conference "Evolution of Cooperation": The evolution and stability of conditional cooperative behavior with reactive investment strategies

Åke Brännström

- National Natural Science Foundation of China (NSFC) and International Institute for Applied Systems Analysis (IIASA), Beijing, China, conference "Evolution of Cooperation": The role of synergy and group size in the evolution of cooperation

Xiaojie Chen

- National Natural Science Foundation of China (NSFC) and International Institute for Applied Systems Analysis (IIASA), Beijing, China, conference "Evolution of Cooperation": First carrot, then stick: How the adaptive hybridization of incentives promotes cooperation

Ulf Dieckmann

- University of the Free State (UFS), Bloemfontein, South Africa, Southern African Young Scientists Summer Program (SA-YSSP) 2011-14: Understanding complex adaptive systems
- National Natural Science Foundation of China (NSFC) and International Institute for Applied Systems Analysis (IIASA), Beijing, China, conference "Evolution of Cooperation": Propitious punishment
- Vienna, Austria, EMCSR (European Meetings on Cybernetics and Systems Research) 2014, Civilisation at the Crossroads – Response and Responsibility of the Systems Sciences: Integrated assessments can reconcile stakeholder conflicts in managing renewable natural resources
- Polytechnic University of Milan, Italy, Italian Society for Chaos and Complexity (SICC), 9th International School and Workshop "Topics in Nonlinear Dynamics: Modelling and Analysis of Innovation and Competition Processes": Robust adaptive speciation
- Austrian Academy of Sciences (ÖAW) and International Institute for Applied Systems Analysis (IIASA), Vienna, Austria, Kerner von Marilaun Lectures 2014, Diversity and Change – Life on the Planet Earth: Models of biodiversity dynamics
- International Council for the Exploration of the Sea (ICES), A Coruña, Spain, ICES Annual Science Conference: An evolutionary explanation of female-biased sexual size dimorphism in North Sea plaice, *Pleuronectes platessa* L.
- International Council for the Exploration of the Sea (ICES), A Coruña, Spain, ICES Annual Science Conference: Economic repercussions of fisheries-induced evolution
- Graduate University for Advanced Studies (SOKENDAI), Hayama, Japan: Punishment's prosocial prowess
- University of the Free State (UFS), Bloemfontein, South Africa, Southern African Young Scientists Summer Program (SA-YSSP) 2014-15: Understanding complex adaptive systems

Mikko Heino

- International Council for the Exploration of the Sea (ICES), A Coruña, Spain, ICES Annual Science Conference: Changes in age and size at maturation of Northeast Arctic cod are driven by the interplay between environmentally-induced phenotypic plasticity and fisheries-induced selection
- International Council for the Exploration of the Sea (ICES), A Coruña, Spain, ICES Annual Science Conference: How strong is fisheries-induced selection? An assessment of selection differentials caused by fishing

- Food and Agriculture Organization of the United Nations (FAO), Rome, Italy, Workshop “Balanced harvest in the real world”: Changes in productivity and life-history traits in experimentally harvested guppy populations

Christina Kaiser

- Department of Ecology, Evolution and Marine Biology, University of California Santa Barbara (UCSB), Santa Barbara, USA: Modeling dynamic interactions between microbes and substrate at the microscale
- American Geophysical Union (AGU), San Francisco, USA, AGU Fall Meeting: A microbial community perspective on the regulation of soil organic matter turnover

Rupert Mazzucco

- Department of Microbiology and Ecosystem Science, University of Vienna, Austria: Evolutionary dynamics in complex communities

Johan A.J. Metz

- Polytechnic University of Milan, Italy, Italian Society for Chaos and Complexity (SICC), 9th International School and Workshop “Topics in Nonlinear Dynamics: Modelling and Analysis of Innovation and Competition Processes”: Effective population sizes and the canonical equation of adaptive dynamics
- Department of Mathematics, Gothenburg University and Chalmers University of Technology, Gothenburg, Sweden, 9th European Conference on Mathematical and Theoretical Biology (ECMTB 2014): Extending the canonical equation of adaptive dynamics to Mendelian populations with any population structure – Replace the population size by the effective population size from population genetics
- Department of Mathematics, Gothenburg University and Chalmers University of Technology, Gothenburg, Sweden, 9th European Conference on Mathematical and Theoretical Biology: The interplay of infectivity that decreases with virulence and limited cross-immunity: (Toy) models for respiratory disease evolution

Kalle Parvinen

- Polytechnic University of Milan, Italy, Italian Society for Chaos and Complexity (SICC), 9th International School and Workshop “Topics in Nonlinear Dynamics: Modelling and Analysis of Innovation and Competition Processes”: Evolutionary dynamics of site-selection
- Department of Mathematics, Gothenburg University and Chalmers University of Technology, Gothenburg, Sweden, 9th European Conference on Mathematical and Theoretical Biology (ECMTB 2014): Evolutionary dynamics of site-selection
- Osaka, Japan, Symposium “Evolutionary Constraints Shape Trait Spaces and Adaptive Evolution” at the Joint Annual Meeting of the Japanese Society for Mathematical Biology and the Society for Mathematical Biology (JSMB/SMB 2014): Adaptive dynamics in infinite-dimensional trait spaces with constraints
- Osaka, Japan, Symposium “Adaptive Evolution in Structured Populations” at the Joint Annual Meeting of the Japanese Society for Mathematical Biology and the Society for Mathematical Biology (JSMB/SMB 2014): Evolution of density-dependent cooperation in a structured metapopulation model
- Graduate University for Advanced Studies (SOKENDAI), Hayama, Japan, Summer Workshop on Theoretical Biology at Hayama: Evolutionary dynamics of site-selection
- Institute of Science and Technology (IST) Austria, Klosterneuburg, Austria: Evolution of density-dependent cooperation in a structured metapopulation model
- Department of Mathematics and Statistics, University of Helsinki, Finland, Biomathematics Day 13: Evolutionary dynamics of site-selection

Sergio Rinaldi

- Department of Electronics, Information and Bioengineering, Polytechnic University of Milan, Italy, Italian Society for Chaos and Complexity (SICC), 9th International School and Workshop “Topics in Nonlinear Dynamics: Modelling and Analysis of Innovation and Competition Processes”: Evolution of biological networks toward synchrony and chaos

Akira Sasaki

- Center for Functional and Evolutionary Ecology (CNRS UMR 5175), Montpellier, France, Workshop “Spatial Evolutionary Epidemiology”: Invasion threshold and evolution in spatially heterogeneous epidemic models
- Department of Mathematics, Gothenburg University and Chalmers University of Technology, Gothenburg, Sweden, 9th European Conference on Mathematical and Theoretical Biology (ECMTB 2014): The coevolution of human antiviral protein APOBEC3G and HIV protein Vif: A theoretical study
- Osaka, Japan, Symposium “Dynamics of Experimental Evolution – Arms Race and Self-organization” at the Joint Annual Meeting of the Japanese Society for Mathematical Biology and the Society for Mathematical Biology (JSMB/SMB 2014): Theories of arms race on complex genotype-phenotype mappings

- Osaka, Japan, Symposium "Understanding mimicry – Evolutionary and Developmental Dynamics of Signal Sharing" at the Joint Annual Meeting of the Japanese Society for Mathematical Biology and the Society for Mathematical Biology (JSMB/SMB 2014): Evolution of Müllerian/Batesian mimicry on a two-dimensional trait space of warning signal and unpalatability
- Yokohama, Japan, International Symposium "Molecular Basis of Host Cell Competency in Virus Infection 2014: Dynamic Interplay between Viruses and Their Hosts": Coevolutionary dynamics of human antiviral protein APOBEC3G and its viral antagonist Vif

Karl Sigmund

- Technical University, Vienna, Austria, Vienna Summer of Logic: Public lecture "Kurt Gödel"

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*

Advisory boards

Ulf Dieckmann

- Chair of the Working Group on Fisheries-induced evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES)

Mikko Heino

- Chair of the Working Group on Fisheries-induced evolution (WGEVO) of the International Council for the Exploration of the Sea (ICES)

Johan A.J. Metz

- Council of the European Society for Evolutionary Developmental Biology

Karl Sigmund

- Council of the International Game Theory Society
- Scientific Committee for Physical, Chemical and Mathematical Sciences (PhyCheMa) of Science Europe
- Advisory Board of the Vienna Science and Technology Fund (WWTF)