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) 20113-14: 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, Kern von Marlaun 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
• 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
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• 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

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)