

International Symposium
Recent Advances in Nonlinear Dynamics and Complex Structures
June 1-2 2017, University of Oldenburg, Germany



Location: University of Oldenburg, Campus Wechloy, ICBM, W15 1-146

Program

June 1 2017	
13:50 -14:00	Thorsten Dittmar (Deputy Director of ICBM) <i>Welcome and opening</i>
14:00-14:30	Horst Malchow (University of Osnabrück) <i>Reaction-diffusion modelling of biological invasions</i>
14:30-15:00	Syamal Dana (Jadavpur University, Kolkata) <i>Coupling conditions for global stability and robust synchrony</i>
15:00-15:20	Tomasz Kapitaniak (Lodz University of Technology) <i>Megastability: coexistence of a countable infinity of nested attractors in a periodically-forced oscillator with spatially-periodic damping</i>
15:20-15:40	Murilo Baptista (University of Aberdeen) <i>Uncovering hidden flows in complex networks</i>
15:40-16:00	Chittaranjan Hens (Bar Ilan University, Ramat Gan) <i>Spatio-temporal propagation of perturbation in complex networks</i>
16:00-16:20	Coffee break
16:20:16:50	Cristina Masoller (Universitat Politècnica de Catalunya) <i>Predictability of extreme intensity pulses in optically injected semiconductor lasers</i>
16:50-17:20	Alessandro de Moura (University of Aberdeen) <i>DNA replication dynamics</i>
17:20-17:40	Annette Witt (MPI for Dynamics and Self-Organization, Göttingen) <i>Clustering and correlations in the timing of extreme events</i>
17:40-18:00	Epaminondas Rosa Jr. (Illinois State University, Normal) <i>A critical firing rate associated with tonic-to-bursting transitions in synchronized gap-junction coupled neurons</i>
18:00-20:00	Poster session with drinks and nibbles

June 2 2017	
09:00-09:30	Ravindra Amritkar (Inst. of Infrastruc., Tech., Res. and Manag., Ahmedabad) <i>Loss of network connectivity in Alzheimer disease</i>
09:30-10:00	Thilo Gross (University of Bristol) <i>Generalized models of meta-foodwebs</i>
10:00-10:20	Elbert Macau (National Institute for Space Research, São José dos Campos) <i>Dynamical detection of network communities</i>
10:20-10:40	Cristóbal López (Campus Universitat de les Illes Balears) <i>Lagrangian Flow Networks: relevant tools to study geophysical systems</i>
10:40-11:10	Helmut Hillebrand (ICBM, University of Oldenburg) <i>On ecological stability in the face of global change</i>
11:10-11:30	Coffee break
11:30-12:00	Katharina Krischer (Technische Universität München) <i>Destructive impact of molecular noise on nanoscale electrochemical oscillators</i>
12:00-12:30	Kenneth Showalter (West Virginia University) <i>Chimera states in populations of chemical oscillators</i>
12:30-13:30	Lunch break
13:30-14:00	Alexander Pisarchik (Technical University of Madrid) <i>Synchronization in network motifs of delay coupled neurons</i>
14:00-14:30	Ying-Cheng Lai (Arizona State University, Tempe) <i>Quasiperiodicity and suppression of multistability in nonlinear dynamical systems</i>
14:30-15:00	Tamás Tél (Loránd Eötvös University) <i>Applications of the snapshot attractor concept: climate change and particle advection with memory effects</i>
15:00-15:30	Klaus Lehnertz (Universitätsklinikum Bonn) <i>On seizing algae and other extremes</i>
15:30-16:00	Coffee break
16:00-16:30	Eckehard Schöll (Technische Universität Berlin) <i>Chimera states in complex networks: interplay of topology, noise, and delay</i>
16:30-17:00	Arkady Pikovsky (Universität Potsdam) <i>Common noise vs coupling in oscillator populations</i>
17:00-17:30	Jürgen Kurths (Potsdam-Institut für Klimafolgenforschung) <i>On the predictability of large-scale events in the climate system</i>
17:30-18:00	James Yorke (University of Maryland) <i>Generalized Lorenz equations on a three-sphere</i>
18:00	Closing