

International Workshop

Nonlinear Dynamics on Networks

July 5-9 2010, Kyiv Ukraine

GOALS AND SCOPE

Network models is a novel powerful tool for complex real-world systems - ranging from the internet and other communication systems to neuronal microcircuits of the brain. To study nonlinear dynamics on networks, one incorporates approaches from the dynamical system theory, statistical physics and mathematics. Enormous progress in the field has been achieved with the help of computational approaches. The workshop topics include but are not restricted to:

- Coupled Oscillators: Analytical Advances for Large and Small Ensembles
- Chimera States and Pattern Formation on Networks
- Heteroclinic Cycles, Bifurcations, and Multistability
- Synchronizability of Networks
- Dynamics of Systems with Complex Delays
- Applications in Life Sciences, Neurodynamics, other fields

SCIENTIFIC COMMITTEE

Peter Ashwin	(Exeter)	
Aleksandr Dmitriev	(Moscow)	
Martin Hasler	(Lausanne)	
Yuri Maistrenko	(Kyiv)	co-chair
Arkady Pikovsky	(Potsdam)	co-chair
Alessandro Torcini	(Firenze)	
Matthias Wolfrum	(Berlin)	

LOCAL ORGANIZING COMMITTEE

Vladimir Maistrenko	(Kyiv)	co-chair
Anna Vasylenko	(Kyiv)	scientific secretary

CONTACT

For the further information, please visit the workshop website
or contact the organizers networks2010@biomed.kiev.ua