

ANNOUNCEMENT

International Conference

"Instabilities and Control of Excitable Networks:

From macro- to nano-systems"

Dolgoprudny, Moscow Area, RUSSIA

May 25 - 30, 2012

On behalf of the Moscow Institute of Physics and Technology (MIPT), National Research Center for Hematology (NRCH), and the Organizing Committee, we are pleased to announce that the International Conference "Instabilities and Control of Excitable Networks: From macro to nano-systems" will be held on May 25-30, 2012.

The conference will be held in the main building of the Moscow Institute of Physics and Technology in Dolgoprudny campus.

The conference will be devoted to the problems of complex excitable network dynamics in physiology, biomedicine, physics, chemistry and social systems.

TOPICS

Instabilities in far from equilibrium excitable network dynamics

Pattern formation in network-organized systems

Control of threshold and kinetic cascade avalanche-like phenomena

Conceptual items and application to natural and social systems

The main goal of the conference is to advance interdisciplinary research and creative new cross-disciplinary links in Russia and abroad. We hope to bring together a diverse energetic group of researchers at different stages of their research careers, working in the field of self-organization in various systems, engineering of excitable biological tissues and control of excitable networks.

INVITED SPEAKERS

Our list of invited speakers includes (but is not limited to):

L.V.Rosenshtraukh (National CardioCenter, Moscow), E.Bodenschatz (MPG, Gettingen), V.E.Zakharov (ITP, Chernogolovka), I.I.Goryanin (Univ. Edinburgh, Edinburgh), A.M.Pertsov (SUNY, Syracuse), A.V.Panfilov (Ghent Univ., Ghent), W.Ebeling (Humboldt Univ., Berlin), A.De Wit (ULB, Bruxelles), M.Herrero (UCM, Madrid), O.Steinbock (Florida State Univ., Tallahassee), K.Yoshikawa (Kyoto Univ., Kyoto), Yu.A.Chizmadzhev (IPCE RAS, Moscow), D.I. Trubetskov (Saratov Univ.), A.V.Gasnikov (MIPT, Dolgoprudny), A.M.Raigorodsky (MIPT, Dolgoprudny), V.I.Nekorkin (IAP, Nizhny Novgorod), N.Bursac (Duke Univ., Durham), G.G.Malinetsky (IAM, Moscow), M.A.Livshits (IMB, Moscow), A.S.Dmitriev (IRE, Moscow), V.N.Biktashev (Univ. Liverpool), V.B.Priezzhev (JINR, Dubna), V.I.Krinsky (INS, Nice), D.A.Novikov (ICS RAS, Moscow).

ORGANIZING COMMITTEE

- K.I. Agladze – co-chairman
- G.Th. Guria – co-chairman
- A.A. Muraviev
- D.V. Goldshtein
- A.M. Pertsov
- K.E. Zlobina – scientific secretary
- A.R. Gagarina – secretary

e-mail: orgcom@icenet2012.net

ACCOMMODATION INFORMATION

The participants can select accommodation in several hotels just near by the campus (<http://www.icenet2012.net/Accommodation/>, see also <http://sk-royal.ru/en/>).

PRELIMINARY REGISTRATION form is enclosed with this Announcement.

ABSTRACTS

Participants planning to present their results at the conference are required to submit abstracts by e-mail. Authors are requested to prepare their abstract in Microsoft Word format. Style guide for abstract is enclosed with this Announcement. The abstracts should be submitted before April 1st, 2012 via e-mail to: orgcom@icenet2012.net

IMPORTANT DEADLINES

Title of the talk – March 10th, 2012

Confirmation of registration – March 18th, 2012

Abstract submission – April 1st, 2012

All the forms attached to this Announcement can be downloaded from the conference site. Please confirm your participation and register at the conference site <http://icenet2012.net> as soon as possible.

Information for foreign participants: individuals requiring an official letter of invitation in order to obtain a visa and authorization to attend the conference should contact the Organizing committee at orgcom@icenet2012.net.