

Preview (subject to change)

1st Russian-German “Young Talent” Workshop / молодёжная школа / Nachwuchsschule *Mathematical Bio-systems Modeling*

Monday, 07 November 2016

Registration for YT Workshop & Conference

To acquaint with the medical issues, some introductory sessions for the young scientists are planned for the morning.

Participants of YT Workshop take part in the afternoon sessions of *Conference on MultiScale BioMathematics*.

Take time for the Get-together in the evening.

Tuesday, 08 November 2016

Participants of YT Workshop take part in the sessions of *Conference on MultiScale BioMathematics*.

Attend the Social Dinner to interact with the experts, approx. 6.30 to 8.30 p.m.

Wednesday, 09 November 2016

Participants of YT Workshop take part in residual session(s) of *Conference on MultiScale BioMathematics*.

Remaining sessions are reserved for presentations by the participants of YT Workshop. Closing is foreseen for the afternoon.

Invitation

Young scientists are invited to submit their original work (abstract in either Russian or German with complete English translation) to either Sergey I. Mukhin (vmmus@cs.msu.su) or J. Mau (ismmau@hhu.de) **by 30 Sep 2016** for review; decision about acceptance until 13 Oct 2016.

Invited Speakers^{*)}

1st Russian-German Conference on *MultiScale BioMathematics:Coherent Modeling of Human Body System*

B. Chetveryshkin Institute of Applied Mathematics of RAS, Russia, confirmed

Yu. Vassilevski Institute of Computational Mathematics of RAS, Russia, *confirmation pending*

G. Bocharov Institute of Computational Mathematics of RAS, Russia, *confirmation pending*

V. Lakhno Institute of Mathematical Problems in Biology of RAS, Russia, confirmed

V. Volpert Institut Camille Jordan CNRS, Université Lyon 1, France, confirmed

H.F. Chen Academy of Mathematics and Systems Sciences of CAS, China, confirmed

W. Jäger IWR Interdisciplinary Center for Scientific Computing, Heidelberg, *confirmation pending*

Invited Speakers^{*)}

1st Russian-German Young Talent Workshop: *Mathematical Bio-systems Modeling*

Medical Topics for Mathematicians

Vascular System: N. N.

Immunology: N. N.

Mathematics for population health: **A. Michalskij**, Trapeznikow Institute of Control Sciences of RAS, confirmed

Presentations by Young Scientists

Y. Fan IWR Interdisciplinary Center for Scientific Computing, Heidelberg University, unconfirmed

T. Dobroserdova Institute of Computational Mathematics of RAS, Russia, confirmed

^{*)} current of 01 Sep 2016

Preview (subject to change)

1st Russian-German Conference on *MultiScale BioMathematics:Coherent Modeling of Human Body System*

Monday, 07 November 2016

Registration for participants of only this Conference w/o YTWshp will start after lunch time.

The session on *Mathematical Topics in Complex Systems Modeling* is planned for the afternoon.

A Get-together is planned for 6.30 to 8.30 p.m.

Tuesday, 08 November 2016

Sessions dedicated to biomathematical modeling of (aspects of) the cardiovascular system, the immune system and other parts of the human body system.

A Social Dinner for interaction is planned for 6.30 to 8.30 p.m.

Wednesday, 09 November 2016

Experts' sessions / discussions will be continued as required and as appropriate to leave room for the special session reserved for presentations by young scientists of the YT Workshop

Invitation

Original contributions to “topics in focus” are welcome; for bridging between scales, other parts of the body system may be addressed, as well.

The level should be exacting with a good exposition of biological context.

One-page abstracts (12-pt Times Roman, single) of submissions will be reviewed for suitability by 13 Oct 2016 when received **before 30 Sep 2016**.

Send English-language submissions for evaluation to Sergey Mukhin <vmmus@cs.msu.su> or Jochen Mau <ismmau@hhu.de>.

Registration for

1st Russian German Conference on *MultiScale BioMathematics - Coherent Modeling of Human Body System*

14:00 07 Nov - 12:45 09 Nov 2016 **yes**

1st Russian-German Young Talent Workshop / молодёжная школа / Nachwuchsschule on *Mathematical Bio-systems Modeling*

10:00 07 Nov - 17:30 09 Nov 2016 **yes**

NO FEE ⇒ **PARTICIPATION IS LIMITED!**
Meals and accommodation self-payable!

Title _____

Family Name _____

Given Name _____

Name _____

Institution _____

City _____

Postal Address _____

Phone / Fax _____

E-Mail _____

Signature: _____

I need accommodation no yes:

06-07 Nov 2016 | single double

07-08 Nov 2016 | single double

08-09 Nov 2016 | single double

I also wish to take part at

Get-together 07 Nov 19:00-20:20

Social Dinner 08 Nov 18:30-20:30

E-Mail to: **J.MAU**<biokyb@t-online.de>
NO LATER than 16 October 2016

Scope

Biokybernetik (engl. **bio-automation**) combines bio-systems modeling, molecular bio-data methodologies and clinical characterizations for a holistic understanding of human body's functional and a person's operational management and control systems from an engineering perspective.

1st Russian-German Conference on *MultiScale BioMathematics - Coherent Modeling of Human Body System* aims to address

- mathematical topics in complex systems models,
- modeling the human cardiovascular system,
- modeling the human body immune system,
- other topics in bio-systems modeling

1st Russian-German Young Talent Workshop / молодёжная школа / Nachwuchsschule on *Mathematical Bio-systems Modeling* aims to foster the next generation of scientists in mathematical bio-systems modeling for Russian-German collaborative research programs. It includes an introduction to the medical topics of the core conference "*MultiScale BioMathematics - Coherent Modeling of Human Body System*", attendance of the core conference, and separate sessions for presentations by young scientists on mathematical bio-systems modeling.

Venue

Moscow State Univ., 2nd Educat'l Bldg, CMC Fac., Leninskie Gory, GSP-1, 119991 Moscow, Russia.
РФ119991 Москва, ГСП-1, Ленинские горы, МГУ, 2-й учебный корпус, ф-т ВМК

Organizers

Jochen Mau (University of Düsseldorf)

Sergey I. Mukhin (MSU Lomonosov)

The Organizers are grateful to **Willi Jäger** (IWR Heidelberg) for his guidance and suggestions.

Local Organizer: Sergey I. Mukhin

BIOKYBERNETIKA 2016

Lomonosov Moscow State University
Faculty of Computational Mathematics and Cybernetics

Dean: Acad. Prof. Dr. E. I. Moise'ev

1st Russo-German Conference
MultiScale BioMathematics – Coherent Modeling of Human Body System

and

1st Russo-German
"Young Talent"
Workshop

Mathematical Bio-systems Modeling

07 - 09 November 2016

**Lomonosov
Moscow State University**

Convenors

Sergey I. Mukhin

Jochen Mau