



The 20th International Conference

MATHEMATICS · COMPUTING · EDUCATION

will take place in Pushchino, Russia from January 28 to February 2, 2013

The Conference is being organized by the Interregional Public Association “Women in Science and Education” **in co-operation with** Lomonosov Moscow State University, Pushchino Biology Study Center (Russia Academy of Science), Institute of Theoretical and Experimental Biophysics (Pushchino, Russia Academy of Science), Institute of Biophysics of Cell (Pushchino, Russia Academy of Science), Pushchino State University, Joint Institute for Nuclear Research (Dubna), Dubna State University, Central Institute for Economics and Mathematics (Moscow), Keldysh Institute for Applied Mathematics (Moscow, Russia Academy of Science).

The Conference is held annually at the end of January in scientific centers nearby Moscow, Russia – at Joint Institute for Nuclear Research, Dubna (even year event) and at Biology Research Center of Pushchino (odd year event).

Official Languages: Russian, English.

Mathematics is a well-known language that unites contemporary science. Most mathematical concepts have applicability far beyond the context they have originated from. The main objective of the Conference is to provide a platform for constructive dialogue between professionals in various fields of knowledge – from pure mathematical theory to application of mathematical models and information technology in scientific research and education. Special attention at the Conference is given to communication of science and arts in the context of modern culture.

Conference agenda includes plenary lectures and concurrent sessions and workshops on the following topics:

- Mathematical Theories,
- Calculation Methods and Mathematical Modeling,
- Mathematical Models in Natural and Social Sciences,
- Natural and Social Science Education.

International Workshop “**Analysis of Complex Biological Systems: Models and Experiment**” is a satellite event of “MATHEMATICS · COMPUTING · EDUCATION” Interdisciplinary Conference.

*With advance in experimental sciences it becomes obvious that new comprehensive approach is required for deep understanding of biological phenomena at different spatial and time scale. The need for integration between different branches of knowledge emerges such disciplines as bioinformatics and systems biology. The Workshop is aimed at facilitating dialogue between experimental, computational, and theoretical aspects in life sciences and will address interdisciplinary practices across the natural sciences. The key topics of the Workshop in 2013 will be: **Mathematical models of living systems, Molecular modeling and Subcellular nanostructures.***

Dear Colleagues,
There are many good reasons for attending the 20th International Conference
MATHEMATICS · COMPUTING · EDUCATION in Pushchino in 2013.

You will be able to take advantage of the following:

- A friendly and interested audience for presenting the results of your studies;
- Presentation of the most advanced achievements in basic and applied research in Calculation methods and mathematical modeling and mathematical methods in chemistry, biology, ecology and medicine;
- Set contact with colleagues from many institutions and countries; fruitful discussions and planning of joint research initiatives;
- The unique atmosphere and hospitality of the social phenomena – the Science-Town of Pushchino, Moscow Region.

To participate the Conference please register online at www.mce.su

Conference Sessions:

Conference sessions focus on specific themes and include both invited and volunteered presentations. Abstracts may be accepted for oral or poster presentation.

S1. Mathematical Theories

S2. Calculation Methods and Mathematical Modeling

S3. Analysis of Complex Biological Systems: Models and Experiment

S4. Mathematical Modeling in Social Sciences. Econophysics

S5. Natural and Social Science Education

S6. Museum in the Modern Culture

S7. Gender Theory and Practice

If you wish to propose any extra event to the Conference agenda (workshop, round-table discussion, masterclass) you are welcome to contact Conference Organizational Committee by E-mail mce@mce.su.

Abstract submission deadline is *November 15, 2012*. Abstracts should be submitted online via Conference website www.mce.su. Selected papers will be published in “Computer Research and Modeling” scientific journal and in the *20th Annual Volume* of the Conference Proceedings.

Conference Participation Fee (Abstract book included):

R1500 Rubles – for Russian and CIS participants,

The registration for Russia and CIS participants fee includes social program, typographic service payment. Accommodation and meal are at the expense of participants.

\$400 USD – for foreign participants.

The registration fee for foreign participants includes bus transfer from Moscow airport to Pushchino and back, social program, banquet, typographic service payment, visa support and extra expenses. Visa, accommodation and meal are at the expense of participants.

Payment details will be shown in your “Personal Office” at Conference website www.mce.su.

Conference registration deadline is *November 15, 2012*.

Organizational Committee:

Chairman: Professor **Galina Yu. Rizinchenko** – Lomonosov Moscow State University, School of Biology, Biophysics Dept., President of the Interregional Public Association “Women in Science and Education”;

Co-chairman: **Vladislav M. Komarov** – Institute of Biophysics of Cell;

Executive secretary: **Lada D. Tjorlova** – Lomonosov Moscow State University, School of Biology, Biophysics Dept.

Members: I.N. Babich, A.N. Diakonova, P.V. Fursova, T.N. Goncharova, S.S. Khruschev, O.S. Knyazyeva, G.A. Korobova, I.B. Kovalenko, N.V. Kopytova, L.A. Krasnobayeva, P.A. Mamonov, T.Yu. Plusnina, T.A. Strizh, D.M. Ustinin, N.D. Yanson, D.V. Zlyenko.

International Scientific Committee: N.V. Ammosova, N.V. Belotelov, D.S. Chernavsky, A.I. Chulichkov, I.S. Emelyanova, A.V. Giglavyj, I.S. Gudovich, G.R. Ivanitsky, V.V. Ivanov, V.E. Karpov, A.A. Klementev, A.V. Koganov, A.S. Komarov, V.M. Komarov, V.V. Korenkov, E.A. Krasavin, V.D. Lakhno, A.I. Lobanov, E.I. Maevsky, G.G. Malinetsky, N.A. Mitin, A.A. Polezhaev, R. Pose, Zh.M. Rabbot, N.Kh. Rozov, M.Yu. Romanovsky, Yu.M. Romanovsky, A.B. Rubin, V.A. Shuvalov, D.A. Silaev, E.A. Solodova, Yu.Yu. Tarasevich, L.A. Uvarova, M.N. Ustinin, A.E. Varshavsky, N.A. Vinokurova, G.N. Yakovenko, L.V. Yakushevich, V.I. Zalyapin, Yu.I. Zhuravlev (Russia), W. Ebeling, R. Pose (Germany), V.A. Shlyk (Belarus), S.V. Chernyshenko, N.D. Gernet (Ukraine).

Postal address:

Attn: Lada D. Tjorlova

Biophysics Dept., School of Biology, Lomonosov Moscow State University
Leninskiye Gory 1, Moscow 119991, Russia

Phone: +7 (495) 939-0289

Fax: +7 (495) 939-1115

E-mail: mce@mce.su

Website: <http://www.mce.su/>