



Annual Interdisciplinary Conference
Mathematics • Computing • Education



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The 21th International Conference

MATHEMATICS • COMPUTING • EDUCATION

Dubna, Russia. February 3-8, 2014

The Conference is being organized by the Interregional Public Association “Women in Science and Education” **in co-operation with** Joint Institute for Nuclear Research (Dubna), Dubna State University, 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, Central Institute for Economics and Mathematics (Moscow), Keldysh Institute for Applied Mathematics (Moscow, Russian Academy of Science).

The Conference is held annually at the end of January - beginning of February 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 modern 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 a 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. **Head of Organizing Committee of the Workshop is Prof. Andrew Rubin**, Head of the Dept of Biophysics, School of Biology, Lomonosov Moscow State University.

*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 scales. The need for integration of different branches of knowledge emerges such disciplines as bioinformatics and system biology. The Workshop is aimed at facilitating dialogue between experimental, computational and theoretical aspects in life sciences and address interdisciplinary practices across the natural sciences. The key topics of the Workshop in 2014 are: **Mathematical models of living systems, Molecular modeling and Subcellular nanostructures.***

Dear Colleagues,
There are many good reasons for attending the 21th International Conference
MATHEMATICS · COMPUTING · EDUCATION in Dubna in 2014.
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 Dubna, Moscow Region.

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

Conference Sessions:

Conference sessions focus on the following 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, 2013*. 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 *21th 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 Dubna 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, 2013*.

Organizational Committee:

- Chairman:** Professor **Galina Yu. Riznichenko** – Lomonosov Moscow State University, School of Biology, Biophysics Dept., President of the Interregional Public Association “Women in Science and Education”; E-mail: riznich46@mail.ru/
- Co-chairmans:** **Vladimir Korenkov** – Director of the laboratory of Information Technologies, Joint Institute for Nuclear Research (Dubna),
Rudolf Pose – Adviser of the Joint Institute for Nuclear Research (Dubna),
- Executive secretary:** **Tatiana Galochkina** – Lomonosov Moscow State University, School of Biology, Biophysics Dept.; E-mail: tat.galochkina@gmail.com
- Members:** I.N. Babich, A.N. Diakonova, T.V. Galochkina, 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. Giglavij, 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:

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