



The 19th International Conference

MATHEMATICS · COMPUTING · EDUCATION

will take place in Dubna, Russia from January 30 to February 4, 2012

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

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 Puschino (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 advances in experimental sciences it becomes obvious that new comprehensive approach is required for deep understanding of biological phenomena at different spatial and temporal scales. The need for integration between different branches of knowledge emerges in 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 2012 will be: **Mathematical models of intracellular systems, Radiation biology and Biological spectrometry.***

Dear Colleagues,
There are many good reasons for attending the 19th International Conference
MATHEMATICS · COMPUTING · EDUCATION in Dubna in 2012.
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;
- Establish contacts 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 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

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 (a workshop, round-table discussion, masterclass) you are welcome to contact the Conference Organizing Committee by E-mail mce@mce.su.

Abstract submission deadline is *November 15, 2011*. 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 *19th Annual Volume* of the Conference Proceedings.

Conference Participation Fee:

R1500 Rubles – for Russian and CIS participants,

The registration fee for Russia and CIS participants includes conference hall and equipment rent, conference materials (Book of Abstracts included) and social program. Accommodation and meals are at the expense of participants.

\$400 USD – for foreign participants.

The registration fee for foreign participants includes conference hall and equipment rent, conference materials (Book of Abstracts included), bus transfer from Moscow airport to Dubna and back, social program, banquet, visa support and extra expenses. Visa, accommodation and meals are at the expense of participants.

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

Conference registration deadline is *November 15, 2011*.

Organizing 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:** Professor **Rudolf Pose** – Joint Institute for Nuclear Research;
- Co-chairman:** **Vladimir V. Korenkov**– Joint Institute for Nuclear Research;
- 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, 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).

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