



MATHEMATICS. COMPUTING. EDUCATION

15th INTERDISCIPLINARY CONFERENCE

Dubna, Russia, January 28 – February 2, 2008

FIRST CIRCULAR LETTER

The Conference is organized by Lomonosov Moscow State University, Joint Institute for Nuclear Research (Dubna), Puschino Scientific Center (Puschino, Russia Academy of Science), Keldysh Institute for Applied Mathematics (Moscow, Russia Academy of Science), JINR Applied Scientific Research Center (Dubna), Dubna State University, the Interregional Public Organization “Women in Science and Education” and Moscow Society of Naturalists.

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.

The Conference aims at consolidating activities of various scientific and educational bodies to provide sustainable development.

Dear Colleagues,

We invite you to participate in the 15th International Conference MATHEMATICS. COMPUTING. EDUCATION to be held in Dubna, Russia in 2008. Attending the Conference will enable you to take advantage of the following:

- 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, mathematical modeling and mathematical methods in natural and social sciences;
- contact with colleagues from many institutions and countries; fruitful discussions and planning of joint research initiatives;
- the unique atmosphere and hospitality of the Conference venue – the science-town of Dubna, Moscow Region.

Help us to organize the best Interdisciplinary Conference ever
by registering online at www.mce.biophys.msu.ru

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

Conference venue

Joint Institute for Nuclear Research (JINR) will host MCE-2008. JINR is an international institute situated in a small picturesque town of Dubna. Dubna is about 80 miles north of Moscow on the bank of the Great Russian River Volga, 60 miles from international airport Sheremetyevo.

Organizing Committee

- Chairman:** Galina Yu. Riznichenko, Professor of Lomonosov Moscow State University, Biological Faculty, Biophysics Department, President of the Interregional Public Organization “Women in Science and Education”;
- Co-chairman:** Rudolf Pose, Professor, Joint Institute for Nuclear Research;
- Co-chairman:** Vladimir V. Korenkov, Joint Institute for Nuclear Research;
- Executive secretary:** Lada D. Tjorlova, Lomonosov Moscow State University, Biological Faculty, Biophysics Department.
- Treasurer:** Alevtina D. Lobanova, the Interregional Public Association “Women in Science and Education”;

Members:

- | | |
|-----------------------|-----------------------|
| Anna M. Abaturova, | Tatiana Yu. Plusnina, |
| Polina V. Fursova, | Dmitry M. Ustinin, |
| Sergei S. Khruschev, | Nina D. Yanson, |
| Ilya B. Kovalenko, | Zoya E. Zhuravleva |
| Anastasia I. Lavrova, | |

International Scientific Committee

RUSSIA

Nikolai V. Belotelov
Evgenia N. Cheremisina
Dmitrii S. Chernavskiy
Alexei I. Chulichkov
Alexander V. Giglavy
Irina S. Gudovich
Genrich R. Ivanitsky
Vladimir V. Ivanov
Vladimir E. Karpov
Alexander A. Klement'ev
Alexander V. Koganov
Oleg L. Kuznetsov

Viktor D. Lakhno
Alexei I. Lobanov
Evgenii I. Maevsky
Georgii G. Malinetsky
Andrei A. Polezhaev
Nicolai Kh. Rozov
Yurii M. Romanovskii
Andrei B. Rubin
Alexei N. Sissakian
Eugenia A. Solodova
Lyudmila A. Uvarova
Mikhail N. Ustinin
Alexander E. Varshavsky

Lyudmila V. Yakushevich
Inna S. Yemelyanova
Vladimir I. Zalyapin
Yurii I. Zhuravlev

GERMANY

Werner Ebeling
Rudolf Pose

BELARUS

Vladimir A. Shlyk

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. Mathematical Models in Chemistry, Biology and Medicine
- S4. Mathematical Modeling in Social Sciences
- S5. Natural and Social Science Education

Conference Workshop

Workshop "**Analysis of Complex Biological Systems: Models and Experiment**" will be held as a part of *Mathematical Models in Chemistry, Biology, Medicine* session.

This Workshop is a satellite event of "Mathematics. Computing. Education" Interdisciplinary Conference. Working language of the Workshop is English.

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 system 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.

In this year, the Workshop will focus on **Medical Biophysics**.

Round-Table Discussion

Round-table discussion focuses on interdisciplinary and frontier themes and will include invited presentation as well as volunteered speakers.

- R1. Russia Culture Media: Mass Media, Meeting, Internet

Conference registration deadline is December 15, 2007.

To register to the Conference, it is strongly recommended that you fill in the electronic form at www.mce.biophys.msu.ru up to **December 15, 2007**. In case you do not have Internet access please complete the forms at the end of this Letter using block letters and send it by mail or fax to the Conference organizing committee (see address below).

Conference Participation Fee

- R1000 Rubles** – for participants from Russia and CIS countries
- \$400 USD** – for participants from other countries
- \$200 USD** – special reduced fee

The registration fee includes set of Conference and Workshop materials (including book of abstracts); review and publishing abstract of one presentation (you may submit more than one abstract for additional fee), postage expenses, coffee-breaks and Welcome Party. **The registration fee for foreign participants** also includes visa service, bus transfer from Moscow airport to Dubna and back and social program.

The accommodation and meal are not included in the participation fee.

Special reduced fee for foreign participants (200 USD) does not include bus transfer from Moscow airport to Dubna and back.

Conference Publications

Abstract book will be published and disseminated to the participants during the Conference. Abstract submission deadline is **November 15, 2007**. See below for abstract submitting instructions. Selected papers will be included in the **15th Annual Volume** of MCE Proceedings afterwards.

Organizing Committee Address

Attn: Lada D. Tjorlova, Polina V. Fursova

Biological Faculty, Biophysics Department
Moscow State University
Lenin's Hills GSP-1
Moscow 119991 Russia

Phone: +7(495)939-02-89

Fax: +7(495)939-11-15

E-mail: MCE@biophys.msu.ru

Web-site: www.mce.biophys.msu.ru

Payment Method

Payments should be made by bank transfer as follows. Please do not pay any fee before you get an Acceptance Notification for your participation.

For payment in Russian Rubles (participants from Russia and CIS countries)

Получатель: Межрегиональная Общественная Организация «Женщины в науке и образовании» *

ИНН 7727059105

КПП 773601001

Донское ОСБ 7813.01586 г. Москва

Р/с 40702810138280100563

Банк получателя: Сбербанк России г. Москва

к/с 3010181040000000225 БИК 044525225

* *Наименование организации указывать в банковских документах полностью без сокращений*

For payment in USD

Corresponding bank: The Bank of New York, NYC, NY (Swift: IRVT US 3N)

Saving Bank of the Russian Federation, Moscow Bank (Swift: SABR RU MM)

890-0057-610 USD Donskoe Branch 7813/01578 Moscow Russia

Association "Women in Science + Education" Account 40702840338280200563

Sorry, we do not accept either credit cards or checks.

In case you cancel your participation in the Conference transferred Conference Fee will be returned to you at your expense.

Should you have any question please do not hesitate to contact the Conference Organizing Committee.

Important dates

Abstract submission deadline is November 15, 2007

Conference registration deadline is December 15, 2007

Conference: January 28 – February 02, 2008

Arrival Day: January 27 – 28, 2008

Departure Day: February 02 – 03, 2008

SECOND CIRCULAR LETTER WILL BE AVAILABLE PRIOR TO DECEMBER 20, 2007

ABSTRACT SUBMISSION RULES

Please submit your Abstract by November 15, 2007

Abstracts of presentations should be submitted via Conference website www.mce.biophys.msu.ru. Authors may submit Abstract for oral or poster presentation in Russian or in English (or both). Abstracts are limited to 1500 characters. Should the abstract contain figures, tables or equations, please send it as attached PDF file. Other allowable formats are plain text, HTML, LaTeX, RTF and Word for Windows. You may download required templates from the Conference website Requirements for the abstract printing are as follows:

1. Each abstract should fit one page (A4), text field 160 mm by 220 mm, Times New Roman 12 pt, single interval
2. First line: **TITLE** (ALL CAPS, bold, aligned to center). Leave one blank line after title.
3. Author list: place last (family) name first and separate initials from surname with single space, use comma for enumeration. If you need to state that some of the co-authors belong to different companies please suffix (without space) their names with numbers in superscript (starting from one) in order their addresses appear in Contacts section below; do not suffix name of the corresponding author and co-authors from the same organization with any digit. Correct list should look like this sample: **Smith J.R., Jones W.¹, Brown F.** (bold, aligned to center). Leave one blank line after author list.
4. Contacts (Company (no abbreviations), address, city, ZIP-code, Country, phone, E-mail). If you specify different contacts for different authors prefix each paragraph (except the first one) with a digit in superscript. Contact address of the corresponding author should go first; others' go in order of numbers related to author list. Align to center and leave two blank lines after.
5. Body text (1 cm indent for the first line of each paragraph (including mathematical equations), use round brackets for equations references and square brackets for bibliography references, justify text). Equations referenced in text should be marked with corresponding number in round brackets (aligned to the right margin). Microsoft Word users should insert equations as MathType or Microsoft Equation Editor 3 objects.
6. If you provide list of cited literature, proceed the following instructions:
 - a. Leave one blank line
 - b. **References.** (bold, left aligned, full stop after) or **Литература.** for abstract in Russian.
 - c. Numbered list of books and articles cited, al aligned to left. Format entries:
 - i. *for books:*
Authors. Title. – City: Publisher, year. NN pages.
 - ii. *for articles:*
Authors. Title // Journal Title Vol. NN, No. NN, Year. Pp. NN-NN.

Example:

DIGITAL LIBRARY: PROBLEMS AND SOLUTIONS

[leave one line]

Smith J.R., Jones W.¹, Brown F.

[leave one line]

Moscow State University,
Leninskie Gory 1, Moscow, 119992, Russia
+7(095)939-0289, E-mail: mce@biophys.msu.ru
¹Russian State Library,
Vozdvizhenka 3/5, Moscow, 119019, Russia

[leave two lines]

Body text

[leave one line]

Literature.

1. *Authors. Title. – City: Publisher, year. NN pages.*
2. *Authors. Title // Journal Title Vol. NN, No. NN, Year. Pp. NN-NN.*

CONFERENCE REGISTRATION FORM

First Name

Last (family) name

Title

Male/Female

Date of birth

Name for badge

Organization or Institution (to appear on badge)

Address

Phone

Fax

E-mail

Registration fee (Participation, Abstracts, Discounts available)

Hotel reservation

I plan to participate in

Conference Session

- S1. Mathematical Theories
- S2. Calculation Methods and Mathematical Modeling
- S3. Mathematical Models in Chemistry, Biology and Medicine
- S4. Mathematical Modeling in Social Sciences
- S5. Natural and Social Science Education

Conference Workshop

- W1. Medical Biophysics: Models and Experiment

Round-Table Discussion

- R1. Russia Culture Media: Mass Media, Meeting, Internet