

**Dear Colleagues,**

Below please find the second announcement of the 8th ISAAC Congress.

It will be organized by Peoples' Friendship University of Russia, Division of Mathematics of the Russian Academy of Sciences, Steklov Institute of Mathematics, and Moscow State University and will take place at Peoples' Friendship University of Russia, Moscow, Russia, through 22-27 August 2011.

The web-page of the Congress is <http://isaac2011.org>

The web-page of the ISAAC is <http://mathisaac.org/>

Please distribute this announcement to anyone who may be interested.

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8th International ISAAC Congress

August 22-27, 2011

Peoples' Friendship University of Russia

Division of Mathematics of the Russian Academy of Sciences

Steklov Institute of Mathematics

Moscow State University

**SECOND ANNOUCEMENT**

The International Society for Analysis, its Applications and Computation (ISAAC) has been organizing the International ISAAC Congress biannually since 1997. The previous congresses took place in the USA (Delaware 1997), Japan (Fukuoka 1999), Germany (Berlin 2001), Canada (Toronto 2003), Italy (Catania 2005), Turkey (Ankara 2007) and UK (London 2009).

The 8th ISAAC Congress will be organized by Peoples' Friendship University of Russia, Division of Mathematics of the Russian Academy of Sciences, Steklov Institute of Mathematics, Moscow State University and will take place at Peoples' Friendship University of Russia, Moscow, Russia, through 22-27 August 2011.

**International Advisory Board (ISAAC Board):**

Robert Gilbert, Honorary President

Michael Ruzhansky, President

Heinrich Begehr

Bogdan Bojarsky

Victor Burenkov, Vice-President for Europe and Africa

Okay Celebi

Daniele del Santo

Massimo Lanza de Cristoforis

Michael Oberguggenberger

Michael Reissig

Yuri Rappoport

Luigi Rodino

Sergei Rogozin

Saburou Saito

Bert-Wolfgang Schulze

Mitsuru Sugimoto

Joachim Toft

Man Wah Wong

Yongzhi Xu, Vice-President for Americas

Masahiro Yamamoto, Vice-President for Asia and Australia

Shangyou Zhang

**Organizing Committee:**

**Co-chairmen of the Congress**

V.M. Filippov, Rector of Peoples' Friendship University of Russia  
V.V. Kozlov, Director of the Steklov Institute of Mathematics  
V.A. Sadovnichy, Rector of Moscow State University

#### **Vice-chairmen**

V.I. Burenkov (ISAAC representative)  
E.B. Laneev (Peoples' Friendship University of Russia)  
A.G. Sergeev (Steklov Institute of Mathematics)

#### **Members**

A.V. Arutyunov  
V.N. Chubarikov  
E.I. Galakhov  
M.L. Goldman  
N.S. Kirabaev  
A.N. Kirillov  
Yu.M. Rappoport  
S.A. Rozanova  
V.M. Savchin  
V.D. Stepanov  
A.G. Yagola

**Secretary** S.A. Davydova

#### **Preliminary list of sessions and their organizers:**

##### ***I. Complex Analysis***

- I.1. Complex variables and potential theory (T. Aliyev, M. Lanza de Cristoforis, S. Plaksa, P. Tamrazov)
- I.2. Differential equations: Complex and functional analytic methods, for partial differential equations (H. Begehr, J.Y. Du, A. Soldatov)
- I.3. Complex-analytical methods for applied sciences (V. Mityushev, S. Rogosin)
- I.4. Value distributions: classical and new aspects, applications (G. Barsegyan, A. Sergeev)

##### ***II. Hypercomplex Analysis***

- II.1. Clifford and quaternionic analysis (S. Bernstein, I. Sabadini, F. Sommen)
- II.2. Analytical, geometrical and numerical methods in Clifford- and Cayley-Dickson-algebras (K. Gürlebeck, V. Kisil, W. Sprößig)

##### ***III. Real Analysis, Functional Analysis and Operator Theory***

- III.1. Toeplitz operators and their applications (S. Grudsky, N. Vasilevski)
- III.2. Reproducing kernels and related topics (A. Berlinet, S. Saitoh)
- III.3. Modern aspects of the theory of integral transforms (Yu. Rappoport, S. Saitoh)
- III.4. Spaces of differentiable functions of several real variables and applications (V. Burenkov, S. Samko, V.D. Stepanov)
- III.5. Analytic and harmonic function spaces (R. Aulaskari, T. Kaptanoglu, J. Rättyä)
- III.6. Fixed point theory and applications (E. Karapinar)
- III.7. Generalized functions and asymptotics (M. Oberguggenberger, S. Pilipovic)

##### ***IV. Partial Differential Equations***

- IV.1. Pseudo-differential operators (J. Toft, M.W. Wong)
- IV.2. Dispersive equations (M. Reissig, M. Ruzhansky,)
- IV.3. Control and optimisation of nonlinear evolutionary systems (F. Bucci, I. Lasiecka)

##### ***V. Applied Analysis***

- V.1. Inverse problems (A. Hasanov, S. Kabanikhin, Y. Kurylev, A. Yagola, M. Yamamoto)
- V.2. Functional differential and difference equations (L. Berezansky, J. Diblik, A. Zafer)
- V.3. Medical mathematics (R. Gilbert, Yu. Rappoport, V. Yakushev)
- V.4. Stochastic analysis (D. Applebaum)

**VI. Nonlinear analysis, extremal problems, approximation theory and applications.**

VI.1. Optimization theory, variational analysis and nonlinear analysis

(A.V. Arutyunov, B.S. Mordukhovich, L.F. Pereira)

VI.2. Approximation theory and Fourier analysis (Z. Ditzian, B. Kashin, S. Tikhonov)

**VII. Teaching analysis at universities and schools**

VII.1 Teaching analysis at universities (L.D. Kudryavtsev, S.A. Rozanova, N.Kh. Rozov)

VII.2 Teaching analysis at schools (V.A. Gusev, M. Klyaklya, A.A. Rusakov)

**VIII. History of analysis** (S.S. Demidov, L. Pepe)

**IX. Other**

**ISAAC Award**

Awards will be presented to young scientists of age below 40 at the time of the congress for particular merits in analysis, its applications and computation. Candidates for the awards may be nominated especially by ISAAC Board Members and Session Organizers, but also may apply by themselves.

Nominations and applications should be sent before 31 May, 2011, to the address

M. Ruzhansky (Imperial College London)

President, ISAAC

e-mail: [m.ruzhansky@imperial.ac.uk](mailto:m.ruzhansky@imperial.ac.uk)

An Award Committee will select the awardees. Awards will only be given to participants. In case a prize winner will not be able to participate, she/he will get only the award document but no corresponding prize.

**Web-page of the Congress:** [www.isaac2011.org](http://www.isaac2011.org)

**Accommodation**

Currently we agreed for accommodation at reduced prices with the following hotels:

**Astrus Moscow City Hotel (Центральный дом туриста)**, 10 min to the venue of the Congress;

**Hotel of Peoples` Friendship University of Russia**, 5 min to the venue of the Congress.

You can find all information about the hotels and prices on the web-page of the Congress.

When sending confirmation of the bank transfer of the registration fee please state which type of accommodation you choose.

**Registration**

Registration is now open and can be done by sending an e-mail to [info@isaac2011.org](mailto:info@isaac2011.org)

Do not forget to send a copy of the Registration form to a session organizer.

We recommend that you print out the Registration form before submitting it.

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**REGISTRATION FORM**

8th ISAAC Congress 2011

NAME:

e-mail:

Affiliation:

I am interested in the following sessions:

Title of the talk:

I apply for reduction of the registration fee      **Yes**    or    **No**

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### **Payment of registration fees**

The registration fees are structured as follows:

- standard registration fee
  - 250 USD      (if paid before or on 15/05/11)
  - 300 USD      (if paid after 15/05/11)
- registration fee for ISAAC members
  - 200 USD      (if paid before or on 15/05/11)
  - 250 USD      (if paid after 15/05/11)

For participants from Commonwealth of Independents States, from developing countries and research students without own support the registration fee can be reduced or even, for young scientists (less than 35 years of age), cancelled depending on availability of funds supporting the Congress. This has to be agreed with the local organizers in each case. **WHEN FILLING IN THE REGISTRATION FORM PLEASE DO NOT FORGET TO INDICATE WHETHER YOU APPLY FOR REDUCTION OF THE REGISTRATION FEE.**

Registration fee covers the usual expenses (organization of the congress, rent for lecture rooms and technical equipment, volume of abstracts, scheduling of talks, welcome party etc). The volume of proceedings is not included in the registration fee.

### **How to pay is explained on the web-page of the Congress.**

Please fill in the Registration form before paying.

### **Letters of Invitation**

As soon as we receive your Registration form, we shall send you a preliminary letter of invitation, which you can use for applying for financial support of your participation in the Congress.

Russian visa is not required for the following countries: Argentina, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Brazil, Croatia, Cuba, Israel, Kazakhstan, Kyrgyzstan, Macedonia, Moldova, Montenegro, Serbia, Tajikistan, Thailand, Ukraine, Uzbekistan, Venezuela.

Participants from all the other countries together with the confirmation of bank transfer of the registration fee should send a scanned copy of the main page of a passport and a scanned copy of the signed attached Visa Application Form (Visa Application Form can be downloaded from the web-page of the Congress).

After we receive the payment of the registration fee and copies of a passport and a Visa Application Form, in due course we shall send you a formal letter of invitation, by using which you can apply for a Russian visa.

**NOTE THAT YOU CANNOT APPLY FOR A RUSSIAN VISA BY USING A PRELIMINARY LETTER OF INVITATION.**

After making a bank transfer of the registration fee please send an e-mail to [info@isaac2011.org](mailto:info@isaac2011.org) containing:

1. a copy of the bank transfer;
2. statement of the type of accommodation you choose;
3. (for those who need a Russian visa) copies of a passport and a Visa Application Form.

We recommend the participants to keep a copy of this e-mail.

### **ISAAC membership**

In order to play more essential role in the activities of the ISAAC you are welcome to join this Society. How to apply you can find on the web-page of the ISAAC <http://mathisaac.org>

Reduction in the Registration fee applies immediately after your name is included in the list of the ISAAC members.

### **Congress dinner**

We plan to organize a Congress dinner. Further particulars will be announced in due course on the Congress website. The price per participant is expected to be

Congress dinner (per person)      50 USD.

### **Abstracts:**

1. Abstracts should be no more that one A4 page. There should be no references.
2. Language: English only.
3. Abstracts should be written in LATEX.
4. PDF and TEX files of an abstract should be sent to [info@isaac2011.org](mailto:info@isaac2011.org)
5. Deadline for submitting abstracts is 15/05/11.
6. Please use the following sample of an abstract.

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```
\documentclass[12pt]{article}
\usepackage{amsmath, amssymb}
\pagestyle{empty}
```

```
\begin{document}
```

```
\centerline{\large{\bf New developments in the study of ...}}
\vspace{3mm}
```

```
\centerline{\bf Brian Goldsmith}
\vspace{1mm}
```

```
\centerline{Department of mathematics, Kansas State University}
\vspace{1mm}
```

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\centerline{goldsmith@math.ksu.edu}
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\vspace{5mm}

Several recent results will be presented on the study of the problem of ...  
Let  $A: H \rightarrow H$  be ...

\vspace{5mm}

\centerline{.....}  
\vspace{5mm}

\centerline{{\Large ALTOGETHER NO MORE THAN ONE A4 PAGE}}  
\vspace{5mm}

\centerline{.....}  
\vspace{5mm}

Joint work with {\bf Vladimir Ivanov} and {\bf Kiyosi Murakami}.

\vspace{5mm}

\centerline{{\Large NO REFERENCES}}

\end{document}

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**New developments in the study of ...**

**Brian Goldsmith**

Department of mathematics, Kansas State University  
goldsmith@math.ksu.edu

Several recent results will be presented on the study of the problem of ...  
Let  $A : H \rightarrow H$  be ...

.....

ALTOGETHER NO MORE THAN ONE A4 PAGE

.....

Joint work with **Vladimir Ivanov** and **Kiyosi Murakami**.

NO REFERENCES

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**Proceedings**

Information about Proceedings will be given in the 3rd Announcement.