

- **Romanian Society of Applied and Industrial Mathematics**
- **Mathematical Society of the Republic Moldova**
- **Tiraspol State University**
- **Institute of Mathematics and Informatics**
- **Moldova State University**
- **Academy of Economical Studies of Moldova**

cordially invite you to

**THE 20th CONFERENCE ON APPLIED AND INDUSTRIAL
MATHEMATICS,
Dedicated to
Academician Mitrofan M. Cioban**

CAIM 2012

Chisinau, Republic of Moldova, August 22-25, 2012

SECOND ANNOUNCEMENT

The Romanian Society of Applied and Industrial Mathematics (ROMAI), Mathematical Society of the Republic Moldova, Tiraspol State University, Institute of Mathematics and Informatics, Moldova State University, Academy of Economical Studies of Moldova announce the organization of the 20th Conference on Applied and Industrial Mathematics - CAIM 2012.

CAIM 2012 takes place during August 22 - 25, 2012 at Tiraspol State University, Chisinau, Republic of Moldova.

CAIM 2012 provides a forum for the review of the recent trends in theoretical, numerical, experimental and industrial applications of mathematics, in computer sciences and in education activities in mathematics. It offers to the researchers the opportunity to share new research advances and ideas in different areas of Mathematics with a special stress on their applicability. Also, it is our intention to create a framework for discussions on the interface between Mathematics and Industry. Graduate students and postdocs interested in these rapidly developing fields are warmly welcome.

This edition is especially dedicated to researches in **algebra, geometry and topology and their applications**.

Important information

CAIM 2012 will take place at the Tiraspol State University, G. Iablocichin 5, MD 2069, Chisinau, Republic of Moldova
Tel: 373-22-75-49-24
Fax: 373-22-75-49-24
E-mail: iti@ust.md

The best access to the Conference location is by taxi from the train station or from the airport.

Conference web-page: www.caim2012.ust.md

Conference contact: e-mail addresses and telephone numbers:

- for accomodation and financial details: Prof. Dr. Andrei Braicov,
e-mail: abraicov@gmail.com;
tel: 373-692 -85 -227.

- for registration, programme and publication issues: Prof. Dr. Dumitru Cozma,
e-mail: dcozma@gmail.com;
tel: 373-689-71-971

- for general information:
e-mail: caim2012@gmail.com; mmchoban@gmail.com

Conference Sections

1. Mathematical analysis and differential equations
2. Algebra and Logic
3. Geometry and Topology
4. Analytical and numerical methods in partial differential equations
5. Computer sciences
6. Mathematical Models in Industry, Physics and Biology
7. Education

Registration

Registration deadline: July **01, 2012**

The registration can be made on line at the web page of the Tiraspol State University, www.caim2012.ust.md .

Conference Fees

Registration fee (August 22, 2012)

Local participants 150 MDL, foreign participants 180 €, foreign participants from former socialist countries 50 €;

Important Dates

Registration deadline: 01.07.2012

Notification of acceptance (for presentation): 01.08.2012

Deadline to submit papers: 15.09.2012

Conference period: 22-25 August, 2012

Authors are requested to send an abstract (1 page) before July 10, 2012 at the mail address:

abraicov@gmail.com; dcozma@gmail.com;

Instructions and a style file for the preparation of the abstracts are available below.

Scientific Committee

Nuri AKSEL (Bayreuth), Mihai ANASTASIEI (Iași), Alexander ARHANGEL'SKI (Moscow), Vasile BERINDE (Baia Mare), Vladimir BALAN (București), Catherine BANDLE (Basel), Șerban BASARAB (București), Constantin BACUTA (Delaware, U.S.A.), Martin BOHNER (Missouri, USA), Dumitru BOTNARU (Chisinau), Tassos BOUNTIS (Patras), Vasile BRÂNZĂNESCU (București), Wladimir-Georges BOSKOFF (Constanța), Ilie BURDUJAN (Iași), Adrian CARABINEANU (București), Mitrofan CIOBANU (Chisinau), Ovidiu CÂRJĂ (Iași), Piergiulio CORSINI (Italy), Sanda CLEJA-ȚIGOIU (București), Adrian CONSTANTINESCU (București), Ion CRĂCIUN (Iași), Behzad DJAFARI-ROUHANI (Texas, USA), Narcisa APREUTESEI DUMITRIU (Iași), Gabriel DIMITRIU (Iași), Ioan DZIȚAC (Oradea), Angelo FAVINI (Bologna), Margarida FERREIRA (Porto), Constantin FETECĂU (Iași), Anca-Veronica ION (București), Angel GARRIDO (Spain), Vladimir GERT (Russian Federation), Demeter KRUPKA (Czech Republic), Olga KRUPKOVA (Czech Republic), Mario LEFEBVRE (Canada), Boris LOGINOV (Ulyanovsk), Bogdan KAZMIERCZAK (Poland), Ioana MOISIL (Sibiu), Nikos MASTORAKIS (Athens), Antonio MATURO (Italy), Nenad MLADENOVICI (Birmingham), Gheorghe MOROSANU (Budapesta), Costică MOROȘANU (Iași), Ingo MULLER (Berlin), Virgil OBĂDEANU (Timișoara), Lidia PALESE (Bari), Zbigniew PERADZYNSKI (Warsaw), Titus PETRILA (Cluj-Napoca), Emilia PETRIȘOR (Timișoara), Kazimierz PIECHOR (Warsaw), Maria PINHO (Porto), Mihail POPA (Chisinau), Constantin POPA (Constanța), Vasile POSTOLICĂ (Bacău), Mairo RAHULA (Estonia), Kumbakonam RAJAGOPAL (Texas), Mefodie RAȚIU (Chisinau), Liliana RESTUCCIA (Messina), Ruggero Maria SANTILLI (U.S.A.), Dana SCHLOMIUK (Canada), Nicolae SUCIU (Cluj-Napoca), Petru SOLTAN (Chișinău), Mirela ȘTEFĂNESCU (Constanța), Kiyoyuki TCHIZAWA (Tokyo), Vladilen TRENIGIN (Moscow), Dan TIBA (București), Mihai TURINICI (Iași), Vladimir VELIOV (Vienna, Austria), Nicolae VULPE (Chisinau).

Locally Organizing Committee

<ul style="list-style-type: none">○ M. Cioban,○ C. Gaidric,○ L. Calmuțchi,○ G. Ciocanu○ S. Cojocar,○ I. Bunu,○ A. Cașu,○ L. Chiriac,○ I. Costaș,○ E. Gheorghică○ A. Hariton,○ D. Lozovanu○ A. Lungu,○ I. Lupu,○ G. Mișcoi○ V. Neaga,○ M. Popa,○ A. Perjan,○ V. Șcerbacov,○ A. Șubă,○ V. Ursu,	<ul style="list-style-type: none">○ D. Afanas,○ A. Braicov○ G. Capățână,○ S. Cataranciuc,○ D. Cozma,○ F. Damian,○ V. Guțu○ L. Sali,○ P. Sârbu,○ I. Secrieru○ V. Seiciuc,○ I. Valuță○ D. Zambîțchi
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Excursion at the monastery Capriana: 10 EUR or 150 MDL

Presentation/publication of papers. All papers will be peer-reviewed. The Scientific Committee will select the works which may be communicated and published. The Organizing Committee has the right to reject any work which exhibits an inappropriate scientific or linguistic level. The full texts of the accepted communications should be submitted, in English, until September 15. The papers should be submitted in English. The authors should obey the standard copyright regulations and are responsible for the scientific and linguistic accuracy of the text.

For detailed information please check the conference website www.romai.ro

The works of the conference will be included after a refereeing selection in the journals:

- *The journal "Buletinul Academiei de Stiinte a Republicii Moldova. Matematica"* (<http://www.math.md/en/publications/basm/>)
- *ROMAI Journal* (please check www.romai.ro),
- *Annals of AOSR, Mathematics and Its Applications* (www.mathematics-and-its-applications.com)
- *ROMAI Educational Journal* (www.romai.ro).

PAPERS. Instructions for Authors

For Sections 1-6, the papers must be written in LATEX 2e, following the instructions for authors posted on the web page of ROMAI Journal (<http://rj.romai.ro>). The authors are kindly asked to submit also the paper in pdf format.

ABSTRACTS. The abstracts must be written in English for all sections, in accordance with the Registration Form.

The abstracts for Sections 1-6 will be written by using, the LATEX 2e template below.

The abstracts for Section 7 will be written by using Microsoft Word in Romanian or in English.

The papers for Sections 1-6 will be sent to Cozma Dumitru, dcozma@gmail.com

The papers for Section 7 will be sent to Braicov Andrei, abraicov@gmail.com

CAIM Abstracts Template (for sections 1-6)

```
\documentclass[10pt,a4paper]{article}
\usepackage{amsfonts}
\usepackage{amsbsy}
\usepackage{amssymb}
\usepackage{amsmath}
\usepackage{amsthm}
\newcommand{\titleart}[1]{\bigskip \begin{center}
\large \textbf{#1}\end{center}}
\vspace{-6mm}
\newcommand{\autorart}[1]{\begin{center} \large
\textsf{#1}\end{center} \vspace{-6mm} }
\newcommand{\coord}[1]{\begin{center} \small
\textit{#1}\end{center} \vspace{-6mm} }
\newcommand{\mail}[1]{\begin{center} \small
\textit{#1}\end{center} \normalsize}
\begin{document}
\titleart{Title of abstract}
\autorart{Author1 \index{Author1}, Author2
\index{Author2},...}
\coord{Affiliation, Country}
\mail{e-mail}
\medskip
Text of the abstract.....
\medskip
{\small {\bf References}
\noindent
1. E. Hopf, {\it A mathematical example displaying
features of turbulence},
Comm. Appl. Math. {\bf 1}(1948), 303-322.
\noindent
2. M. Golubitsky, D.G. Schaeffer, {\it Singularities
and groups in bifurcation theory}, vol. I,
Springer-Verlag, New York, 1985.
}
\end{document}
```

Conference language: English

The prize Adelina Georgescu for applied mathematics

aims to promote the outstanding results of the young mathematicians (till 40 years old) from Romania and Moldova. Details about the participation, in Romanian, can be found at http://www.romai.ro/index.php?option=com_content&view=article&id=153&Itemid=214

Accommodation

The participants at the conference are kindly asked to contact one of the following hotels situated in the proximity of the University.

- Institutul Muncii, <http://institutulmuncii.org/>
- Hotel Zarea, www.hotel-zarea.com
- Hotel Codru, www.codru.md/
- Hotel Turist, *Chisinau, 9, G.Vieru blvd.*
- www.hotels.md/ro/moldova-hotels/

Places in student hostels will be provided for participants who will choose this option.

Weather

In August (summer in Republic of Moldova), the temperature is about 17-24 Celsius deg and the days are usually sunny.

CAIM 2012 Preliminary Program

August 22, 2012

12,00 – 23,00 – Registration at Tiraspol State University

August 23, 2012

7,00 – 9,00 – Registration at Tiraspol State University

09,00 – 09,45 – Opening Ceremony

09,45 – 10,00 – Coffee Break

10,00 – 13,00 – Plenary Lectures

13,00 – 14,00 – Lunch

14,00 – 16,00 – Sessions on Sections

16,00 – 16,15 – Coffee Break

16,15 – 19,30 – Sessions on Sections

August 24, 2012

08,00 – 09,00 – Breakfast

09,00 – 11,00 – Sessions on Sections

11,00 – 11,20 – Coffee Break

11,20 – 13,00 – Sessions on Sections

13,30 – 15,00 – Lunch

15,00 – 17,00 – Sessions on Sections

17,00 – 17,15 – Coffee Break

17,15 – 18,15 – Sessions on Sections

18,15 – 18,30 – Closing ceremony

18,30 – 19,30 – ROMAI – General Assembly
20,00 – 22,30 – Official Dinner

August 25, 2012

– Excursion

Final Registration Form

The registration can be made on line at the web page www.caim2012.ust.md .

Family name:

First name:

Male/Female:

Affiliation:

Address:

Town/City:

Zip code&State:

Country:

e-mail:

Phone:

Fax:

I will submit a contribution:.....Y/N

Type: lecture (45')/ communication (20') L/C

Presentation services: overhead projector/PC/blackboard O/P/B

Title:

Authors:

Abstract:

Arrival time,...hour, transportation means:

Departure time, hour, transportation means:

I'll be accompanied by (full name):

I would reserve my own lodging: Y/N

I would like to be accomodated on campus (University Guest Hotel): Y/N

shared with (optional):

I'll attend the banquet: Y/N

Comments, special requests:

Date: