The Fourth International Conference

On Mathematical Sciences

ICM-2012

Putting Sustainable Development First

March 11-14, 2012, UAE University - Al-Ain, United Arab Emirates

Organized by

The Department of Mathematical Sciences

United Arab Emirates University

Co-Sponsored by

The American Mathematical Society –AMS

The Department of Mathematical Sciences at the United Arab Emirates University is holding the fourth International Conference on Mathematical Sciences, ICM2012. The Department feels that organizing such a conference will help in bringing together researchers in the field of mathematical sciences from all disciplines.

It is our view that holding the fourth International Conference on Mathematical Sciences, ICM2012, at UAEU will enhance the research by bringing together local talents and leading mathematicians from around the world. The conference will provide UAEU faculty members with the opportunity of discussing their own work with their peers in their research area as well as encouraging joint work.

**Conference Themes**

The conference will concentrate on the following topics:

* **Mathematics Topics:**  Algebra, Applied Mathematics, Discrete Mathematics, Finite Mathematics, Fractals, Geometry, History of Mathematics, Logic, Analysis, Number Theory, Numerical Analysis, Topology, Computational Mathematics, Cross-disciplinary areas of Mathematics, and Other Areas of Mathematics.
* **Mathematical Statistics Topics:**   Applied Statistics, Business Statistics, Computational Statistics, Computer Simulations, Econometrics, Environmental Statistics, Industrial Statistics, Mathematical Statistics, Operations Research, Probability, Quantitative Methods, and Statistical Modeling.
* **Mathematics Education Topics:** Strategies in Mathematics Education, Educational Statistics, Active Learning, and use of technology in teaching.
* **Biomathematics Topics:** Mathematical Biology, Biostatistics, Environmental Statistics, and Medical Statistics.
* **Financial Mathematics Topics:** Financial Mathematics, Modeling of financial derivatives, Financial Options, Management Science.
* **Mathematical Modeling in Environmental Sciences  Topics** Mathematical Modeling in Ecology, Population Dynamics, Modeling of Marine Environment, Modeling of Sand Dune migration.

However, the conference would welcome contributions from all aspects of mathematical sciences.

**Conference Venue**

The conference will take place in United Arab University, Al-Ain, UAEU

**Short communications**

* Short communications (20 minutes duration, including a 5 minutes discussion) will be accepted for presentation.
* Extended Abstract guidelines:  The abstract should be at most 1 page, and contain
  + title
  + Author.  In the case of multiple authors, please indicate the name of the speaker by an asterisk.
  + mailing address of the corresponding author
  + list of keywords
  + text of the abstract
* The accepted abstracts will be posted on the conference website as they become available
* Accepted abstracts will be included in the conference program book and scheduled for presentation, only after the participation of the speaker has been confirmed.

**Poster sessions**

Poster sessions allow attendees to speak with the presenters on a one-to-one basis.

**Important Dates**

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| |  |  | | --- | --- | | **Registration  Deadline** | **Jan 25  , 2012** | | **Deadline for Abstracts submission** | **Jan 25   , 2012** | | **Deadline for Notification of Acceptance** | **Within 2 weeks after receiving the abstract** | | **Deadline for full paper submission**  The Conference **Proceeding** will be printed on CD's. So we are doing our best to provide all participants with the Conference proceeding while they are attending the conference. | **Feb 05  , 2012** | |

**Keynote speakers**

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| 1. **Prof. DE WITT L. SUMNERS**   Robert O. Lawton Distinguished Professor of Mathematics and member of the Institute of Molecular Biophysics, Department of Mathematics, Florida State University. PhD, University of Cambridge, 1967  Office: 112 Love Building Telephone: (850) 645-6593 Fax: (850) 644-6612 E-mail: [sumners@math.fsu.edu](mailto:sumners@math.fsu.edu) URL : <http://www.math.fsu.edu/~sumners>  Co-Director, Program in Mathematics and Molecular Biology (PMMB) Institute of Molecular Biophysics at FSU: De Witt Sumners |

1. **Prof. Anatoly V.YAKOVLEV**

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| 1. **Prof. Jintai Ding**   Professor of Mathematical Sciences, University of Cincinnati.  1995 Ph.D. Yale University  1990 M.A. University of Sciences and Technology of China, Hefei, China  1988 B.S. Xian Jiaotong University, Xian, China | | |
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| 1. **Prof. Gennady A. Bocharov**  * Leading Researcher at the Institute of Numerical Mathematics, Russian Academy of Sciences, Gubkina str. 8, Moscow 119333, Russian Federation, E-Mail: [bocharov@inm.ras.ru](mailto:bocharov@inm.ras.ru) * Professor, Faculty of Computational Mathematics & Cybernetics, Department of Computational Technologies and Modelling, Moscow State University * Scientific secretary of the PhD/DSc Thesis Defence Council at the Institute of Numerical Mathematics (RAS). | |  |
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**Special Issue**

A number of world renowned mathematicians will be invited to deliver keynote lectures.

Selected papers will be published in the following special Issue:

1. International ***Journal of Computer Mathematics***, Taylor & Francis.

**Committees**

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| **Local Organizing Committee :**   |  | | --- | | 1. Prof. M Syam (coordinator) 2. Prof. Fathi Allan 3. Dr. Adama Diene 4. Dr. Jeffery Gong 5. Dr. Qasem Al-Madallal 6. Dr. Mohammed Refai 7. Dr. John Abraham |   **International Organizing Committee :**   |  | | --- | | 1. Prof. Abdul Khaliq Abdulqayum, Middle Tennessee State University, USA 2. Prof. Anatoly V.YAKOVLEV, St.Petersburg State University, Russia 3. Prof. DE WITT L. SUMNERS, Florida State University, USA 4. Prof. Florian Lucas, Instituto de Matematicas de la Unam, Mexico 5. Prof. Gaven Martin, Massey University, New Zealand 6. Prof. Jintai Ding, University of Cincinnati, China 7. Prof. Vector Bovdi, Univ. of Debrecen, Hungary |   **International Scientific Committee :**   |  | | --- | | 1. Prof. Abdul Khaliq Abdulqayum, Middle Tennessee State University, USA 2. Prof. Abdel-Shafy F. Obada, Al-Azhar University, Egypt 3. Prof. Alex Myasnikov, Sevens Institute of Technology, USA 4. Prof. Anatoly V.YAKOVLEV, St.Petersburg State University, Russia 5. Prof. Bartosz Protas, McMaster University, Canada 6. Prof. Bruce Wade , University of Wisconsin-Milwaukee, USA 7. Prof. Choi-Hong Lai, University of Greenwich, UK 8. Prof. DE WITT L. SUMNERS, Florida State University, USA 9. Prof. Eid H. Doha, Cairo University, Egypt 10. Prof. Florian Lucas, Instituto de Matematicas de la Unam, Mexico 11. Prof. Gaven Martin, Massey University, New Zealand 12. Prof. Hermann Brunner, Memorial University of Newfoundland, Canada 13. Prof. Jesus Vigo-Aguiar, Universidad de Salamanca, Spain 14. Prof. Jintai Ding, University of Cincinnati, China 15. Prof. John Baena, National University of Colombia, Medellin, Colombia 16. Prof. Lei Hu, Academy of Science of China, china 17. Prof. Martin Kreutzer, Universität Passau, Germany 18. Prof. Matthias Ehrhardt , Bergische Universitat Wuppertal, Germany 19. Prof. Mahmoud Abdel Aty, Sohag University, Egypt 20. Prof. Mohamed Asaad, Cairo University, Egypt 21. Prof. Qin Sheng , Baylor University, USA 22. Prof. Serpil Kocabiyik, Memorial University of Newfoundland, Canada 23. Prof. Tsuyoshi Takagi, Kyushu University, Japan 24. Prof. Vector Bovdi, Univ. of Debrecen, Hungary 25. Prof. Virginia Kiryakova, Institute of Mathematics and Informatics, Bulgaria |   **Local Scientific Committee :**   |  | | --- | | 1. Prof. M. Naim Anwar (coordinator) 2. Prof. M. Syam 3. Dr. M. Salim 4. Dr. Nafaa Chbili 5. Dr. Mohammed El Bachraoui 6. Dr. M. Hajji 7. Dr. Fathalla Rihan |   **Social Committee :**   |  | | --- | | 1. Dr. Tarik Ali (coordinator) 2. Prof. M. Syam 3. Dr. Ana Vasilic 4. Dr. Youssef El Khatib 5. Dr. Ahmed Al-Rawashdeh 6. Mr. Naim Markos |   **Proceeding Committee:**   |  | | --- | | 1. Dr. Philippe Poulin (coordinator) 2. Prof. M. Syam 3. Dr. Simon Cowell 4. Dr. Anwar Hussein 5. Dr. Nabila Azzam | |

**To submit your abstract and register for the conference, please check the conference website at** <http://icm.uaeu.ac.ae/>

**Contact address**

For more information you can contact: [Prof. Muhammed I. Syam](mailto:m.syam@uaeu.ac.ae?subject=ICM_2008)

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