



PRESENTACIÓN

Este boletín presenta de forma breve y directa diversas actividades matemáticas, tanto de investigación como de divulgación, que el Instituto Universitario de Matemáticas y Aplicaciones (I.U.M.A.) de la Universidad de Zaragoza, organiza o colabora en su realización. Para incluir información en el próximo boletín, envíese un email a la dirección:

bueno@unizar.es

ACTIVIDADES SEMANALES

Jueves, 12:00 h.: Seminario Rubio de Francia

http://www.unizar.es/analisis_matematico/seminario.php

Martes, 16:30 h.: Seminario de Doctorado Rubio de Francia

Martes, 12:00 h.: Seminario de Geometría y Topología

<http://riemann.unizar.es/seminario>

Viernes, 18:00 h.: Taller de Talento Matemático

<http://www.unizar.es/ttm/>

**IUMA day on Porous Media
and Applications in Geomechanics**

- 9.30 Jan Martin Nordbotten (University of Bergen, Norway)
- 10.00 Carmen Rodrigo (University of Zaragoza, Spain)
- 10.30 Florin Adrian Radu (University of Bergen, Norway)
- 11.00 Coffee break
- 11.30 Peiyao Luo (Delft University of Technology, Netherlands)
- 12.00 Eirik Kjellegaveln (University of Bergen, Norway)
- 12.30 Carmen Rodrigo (University of Zaragoza, Spain)



21st July 2014
 Aula 3, Edificio de Matemáticas
 Universidad de Zaragoza

Organizadores: Francisco Gaspar (fgaspar@unizar.es), Francisco Lisbona (lisbnofa@unizar.es), Carmen Rodrigo (carmenr@unizar.es)

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IUMA day on Special Structures in Geometry
 26 de junio de 2014

Aula 9, Edificio de Matemáticas, Universidad de Zaragoza

- 10.00 Sergey Grigorian (Univ. Texas-Pan American, USA)
- 11.00 Oscar Maciá (Univ. Valencia)
- 12.10 María Fernández (Univ. País Vasco)
- 15.00 Adrián Andrada (Univ. Nacional de Córdoba, Argentina)
- 16.10 Antonio Ojal (IUMA-CLUJ)
- 17.10 Dimitir Vassilev (Univ. New Mexico, USA)



<http://iuma.unizar.es/en/actividades/iuma-day-special-structures-geometry>

Organizadores: Adela Latone (adelal@unizar.es), Luis Ugarte (lugarte@unizar.es), Raquel Villacampa (rquelve@unizar.es)



ESTANCIAS DE INVESTIGACIÓN

- Mikhail Kochetov (Memorial Univ. of Newfoundland, Canadá)**
6 de junio a 1 de julio de 2014
- Cristina Draper Fontanals (Univ. de Málaga)**
30 de junio a 5 de julio de 2014
- Javier Aramayona (Inst. de Mathematiques de Toulouse, Francia)**
2 a 28 de junio de 2014
- Leonid Kurdachenko (National Univ. Dnepropetrovsk, Ucrania)**
30 de mayo a 12 de junio de 2014
- Dieter Degrijse (KU Leuven, Belgium)**
20 a 27 de junio de 2014
- Juan Souto (Univ. of British Columbia, Canada)**
23 a 27 de junio de 2014
- Ludmil Zikatanov (The Pennsylvania State Univ., State College, USA)**
24 de junio a 26 de agosto de 2014
- James Adler (Tufts Univ., Medford, Boston, USA)**
22 7 23 junio de 2014
- Peigoro Luo (Delft Univ. of Technology, Delft, The Netherlands)**
1 a 31 de Julio de 2014
- Adrian Andrada (Univ. Nac. de Córdoba, México)**
22 a 29 de junio de 2014
- Jergey Grigorian (Univ. of Texas-Pan American, Edinburg, EEUU)**
17 a 27 de junio de 2014
- Dimitir Vassilev (Univ. of New México, EEUU)**
23 a 28 de junio de 2014
- Jorge Urrutia (UNAM)**
19 a 29 de junio de 2014

**Campus Matemático:
Pillados por las mates**

Dirigido a jóvenes de 12 a 15 años
 7 - 11 de julio de 2014
IberCaja Zentrum
 Zaragoza

Más información e inscripciones en
<http://obrasocialibercaja.es/zentrumibercajaobrasocial.org>

Lectures on Numerical Mathematics and Applications
 Zaragoza, 3-5 June 2014

The first course of the series 'Lectures on Numerical Mathematics and Applications' will take place at the University of Zaragoza (Spain) from July 14 to 17 June 2014. The course is addressed mainly to early postgrads, PhD students and professional those requiring advanced and applied issues in numerical methods of scientific computing. The main aim of the course is to introduce young researchers to the modeling and simulation of different problems of partial differential equations.

- ALFONSO BORRERO**: Multigrid methods for optimal control problems with PDE constraints. Introduction to advanced multigrid strategies for solving general and constrained PDE control problems. Development of multigrid algorithms for optimal control and optimization. In particular, we apply advanced fast linear and nonlinear multigrid optimization systems and the MOSEK approach to constrained optimization problems are discussed.
- J. M. COSTELLO**: Numerical Mathematics Techniques in Computational Finance. The lecture on computational finance introduces the literature of the famous Black-Scholes partial differential equation for the pricing of an option. It will explore aspects of financial modeling and problems. In particular, we explore what a financial option is, and how we can price it with applied numerical techniques.
- MARKUS BUCHNER**: Introduction to Parallel Scientific Computing. Overview of parallel systems and high performance computing paradigms for scientific applications. In particular, the lecture will discuss parallel iterative methods and parallel multigrid algorithms. This will include introduction of performance optimization and stability studies on vector supercomputer architectures.
- MARIA B. SCHULZ**: Introduction to slope optimization. Introduction of basic aspects of the classical slope method leading to the famous Federer formula for volume and perimeter measures. Numerical treatment of slope optimization problems with PDE methods. Discussion on a Bayesian framework for the optimization in slope spaces is provided.
- MARIO VANNI**: Introduction to iterative computational methods with applications to image processing. Introduction of iterative computational methods, introduction of the basic concepts underlying these methods, and the different approaches in the development of algorithms based on these ideas. Discussion of several specific problems in the field of image processing and the multigrid algorithms that have been developed for their solution.

More info: www.unizar.es/~iuma/lectures

IUMA - Instituto Universitario de Matemáticas y Aplicaciones

PROXIMAMENTE.....

- NUMERICAL METHODS FOR ORDINARY AND PARATIAL
DIFERENTIAL EQUATIONS AND APPLICATIONS (Dedicated for
65th birthday of prof. Francisco J. Lisbona)**
Zaragoza, 3 a 5 de septiembre de 2014
- XIII JORNADAS ZARAGOZA-PAU**
Jaca, 15 a 18 de septiembre de 2014
- NANOMATH 2014**
Zaragoza, 1 a 3 de octubre de 2014