

Scientific Committee

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XVI JACQUES-LOUIS LIONS SPANISH-FRENCH SCHOOL ON

NUMERICAL SIMULATION IN PHYSICS AND ENGINEERING

Pamplona, September 8-12, 2014

www.unavarra.es/EHF14

Organisation:

Departamento de Ingeniería Matemática e Informática
Universidad Pública de Navarra – Nafarroako Unibertsitate Publikoa

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About the School

The Jacques-Louis Lions Spanish-French School on Numerical Simulation in Physics and Engineering has been organized every two years since 1984, and it is intended for professionals, researchers and students interested in numerical methods.

The sixteenth edition of this School will take place in Pamplona from September 8 to September 12, 2014, and it will be hosted by Universidad Pública de Navarra.

The School is aimed at graduate students in Engineering or Science who want to initiate into numerical simulation, either as a research topic, or in the field of industrial applications. The School is also oriented to technicians working in industry, who are interested in the use of numerical techniques for particular applications, or who want to know about research taking place in both French and Spanish universities and scientific institutions. Finally, the School may be of interest for academics in general, since it permits to exchange knowledge and experience concerning the research topics being developed in different laboratories.

The Sociedad Española de Matemática Aplicada (SEMA) and the Société de Mathématiques Appliquées et Industrielles (SMAI) are actively concerned with the organization of this School.

Poster Session

Participants in the School will have the opportunity to present their works in a poster session.

Courses

Numerical methods for flow in porous media

Isabelle Faille

(IFP Énergies Nouvelles)

Convolution quadrature for wave simulations

Francisco Javier Sayas

(University of Delaware)

An introduction to the Reduced Basis Method

Benjamin Stamm

(Université Pierre et Marie Curie - CNRS)

An introduction to isogeometric analysis

Rafael Vázquez

(Istituto di Matematica Applicata e Tecnologie Informatiche - CNR)

Conferences

Mathematical methods in image processing and computer vision

Antonio Baeza

(Universitat de València)

Modeling and optimization techniques with applications in bio-processes and bio-systems

Eva Balsa-Canto

(Instituto de Investigaciones Marinas de Vigo - CSIC)

New tools from mathematics describing metastatic spreading in cancer

Florence Hubert

(Université d'Aix-Marseille)

Workshop

An introduction to GPU computing for numerical simulation

José Miguel Mantas

(Universidad de Granada)