

## Accommodation

The conference will take place at the Centre for Advanced Academic Studies - Dubrovnik (CAAS) (in the same building as the Inter University Centre), situated few hundred meters from the old walled city. Accommodation for the most of participants can be reserved in the Dormitory in the CAAS building with the price of 40 Euros for single room and 30 Euros for double room. Please indicate in the registration form if you want a room in Dormitory and we will make reservation for you. However, there is a number of hotels at the walking distance from the CAAS. For example hotel Lero. See also [www.hotelroom.com](http://www.hotelroom.com) and type Dubrovnik.

## Arrival

We expect that most participants will arrive by plane, some changing planes at the Zagreb airport. Dubrovnik airport is relatively small, and there should be no problem in locating the Atlas bus which will take you to Pile (the bus then goes to the bus station; you want to get off at Pile, which is a junction point for city buses, next to Pile old city gates). From there it is a short walk to CAAS building, which is also known under the name UNESCO building (red building in SW part of the map; the grid on the map is approx. 1 km, so it is a 500 m walk from the bus to the UNESCO building - from Dr. Ante Strcevic street take left in Dante Alighieri passage, and you will be in front of the UNESCO building).

You can find additional information at Dubrovnik airport page

## Organizing committee:

B. Amaziane, A. Ern, O. Gipouloux, M. Jurak, M. Kern, E. Marušić-Paloka, I. Mortazavi, R. Tapiero

## Organizers:

- Department of Mathematics, University of Zagreb.
- Laboratoire de Mathématiques Appliquées de l'Université de Pau et des de l'Adour, CNRS UMR 5142
- Institut Camille Jordan, UMR 5208 du CNRS, University of Lyon
- GNR MoMaS 2439 CNRS ANDRA BRGM CEA EDF IRSN

Programme disponible en français sur demande à :  
[upscaling08@math.hr](mailto:upscaling08@math.hr)

## Conference sponsors:



<http://web.math.hr/~jurak/Dubrovnik08>

Contact : [upscaling08@math.hr](mailto:upscaling08@math.hr)

**Scaling up and modeling  
for transport and flow  
in porous media**

Mise à l'échelle, homogénéisation & modélisation  
des écoulements de fluides en milieux poreux

**DUBROVNIK, CROATIA  
13-16 OCTOBER 2008**

The conference will begin at 8:30 a.m.  
on Monday the 13th of October  
and end at 18 p.m. on Thursday  
the 16th of October.



The aim of the conference is to bring together researchers, scientists, engineers, and students to exchange and share their experiences, new ideas, and research results about upscaling for modeling, analysis and simulation of flow and transport in porous media and application to problems including subsurface hydrology, petroleum exploration, contaminant remediation, carbon sequestration and nuclear waste storage.

During this conference a special session will be devoted to the 60th anniversary of Professor Alain Bourgeat.

Selected papers from the conference will be published as a Special Issue of Journal Applicable Analysis.

### Key Dates:

- **REGISTRATION OPENS:**  
January 21, 2008
- **REGISTRATION CLOSES:**  
June 30, 2008
- **ABSTRACT SUBMISSION:**  
from January 21 to May 31, 2008
- **NOTIFICATION OF ACCEPTANCE OF ABSTRACTS:**  
June 15, 2008

### Topics of the conference:

- Flow and Transport in Heterogeneous Porous Media
- Multiphase Flows
- Multiscale Phenomena
- Scaling and Heterogeneity
- Scaling in porous media, in particular
  - scaling of processes from the microscale to the mesoscale
  - the use of coarse grid descriptions in modeling multiphase flow phenomena
- Numerical Homogenization
- Numerical simulation of multiphase flow in heterogeneous porous media
- Mathematical modeling of multiphase flow in porous media

### Registration

- Conference fee (Including Conference proceedings, Lunches, Coffee breaks, Gala Dinner)
- Before June 1st 2008: Basic fee is 300 EUR. For graduate students and accompanying persons the fee is 250 EUR.
- After June 1st 2008: Basic fees is 350 EUR. For graduate students and accompanying persons the fee is 300 EUR.

Registration from : <http://degjorgi.math.hr/kongres>

### Invited Plenary Speakers:

- Grégoire Allaire, Ecole Polytechnique, France
- Tod Arbogast, University of Texas at Austin, USA
- Gilles Bernard-Michel, CEA, France
- Jacques Blum, University of Nice, France
- Guy Bouchitté, University of Toulon & Var, France
- Guy Chavent, INRIA, France
- Gregory A. Chechkin, Moscow Lomonosov State University, Russia & Narvik University, Norway
- Jim Douglas, Purdue University, USA
- Hans van Duijn, Eindhoven University of Technology, The Netherlands
- Robert P. Gilbert, University of Delaware, USA
- Jérôme Jaffré, INRIA, France
- Peter Knabner, University Erlangen-Nürnberg, Germany
- Roland Masson, IFP, France
- Andro Mikelić, University of Lyon, France
- François Murat, University of Paris VI, France
- Grigory Panasenko, University of Saint-Etienne, France
- Mikhail Panfilov, LEMTA-ENSEM, France
- Leonid Pankratov, FTINT, Ukraine
- Andrey Piatnitski, Narvik University, Norway and Lebedev Physical Institute, Russia
- Olivier Pironneau, University of Paris VI, France
- Michel Quintard, IMFT, France
- Jean Roberts, INRIA, France
- Thomas F. Russell, National Science Foundation, USA
- Ralph E. Showalter, Oregon State University, USA
- Peppino Terpolilli, Total, France
- Damien Tromeur-Dervout, University of Lyon, France
- Mary F. Wheeler, University of Texas at Austin, USA
- Yannis Yortsos, University of Southern California, USA