

**INTERNATIONAL
CONFERENCE FOR
MESOSCOPIC
METHODS IN
ENGINEERING AND
SCIENCE**



Conference July 26 - 29, 2004
Courses July 30, 2004

Further information can be found at:

<http://www.icmmes.org>



TECHNICAL UNIVERSITY
CAROLO-WILHELMINA
AT BRUNSWICK

INFORMATION

IMPORTANT DATES

Early Registration: before April 15, 2004
Abstract submission deadline: May 1, 2004
Notification of acceptance: June 1, 2004
Conference: July 26 - 29, 2004
Courses: July 30, 2004

The chairman of the local organizing committee is Prof. Manfred Krafczyk.

LOCATION

Aula (Assembly Hall)
Technical University
Carolo-Wilhelmina at Brunswick
Pockelsstr. 11
D-38106 Braunschweig
Germany



CONTACT

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Conference Comittee ICMMES
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FOCUS & OBJECTIVES

The focus of the Conference series is on mesoscopic / kinetic methods (e.g. LBE, DVM, GKS, and SPH) for computational mechanics in its broadest sense. Specific areas include, but are not limited to, mesoscopic / kinetic methods applied for:

- Computational Fluid Dynamics (CFD), including Direct Numerical Simulations (DNS), Large-Eddy Simulations (LES), and macroscopic as well as kinetic turbulence modelling;
- Rheology for complex fluids, such as suspensions, multi-phase and multi-component fluids, non-Newtonian fluids, electro-rheological (ER) and magneto-rheological (MR) fluids (smart fluids) and bio-fluids;
- Nano-scale phenomena involving non-continuum, surface-dominated, low-Reynolds-number, non-Newtonian, multi-scale and multi-physics effects;
- Computational mechanics of solids and structures based on mesoscopic models;
- Computational multi-physics dynamics, such as flow-structure interactions;
- Algorithms for High Performance Computing (HPC) engineering applications.

The objectives of the Conferences are:

- to bring together researchers and practitioners from academia, research institutions and industry to exchange experiences, disseminate up-to-date information, and explore new opportunities in the field;
- to expose young or new researchers to the state of the art in the field, by means of, in addition to the Conferences, short courses and the internet media;
- to play a leading role in research and development in the field.

COURSES AND FEES

COURSES

Short courses on mesoscopic methods will be offered on Friday, July 30. The fee for the courses (incl. course material, lunch, coffee and beverages during breaks) is 100 € for conference participants and 250 € for other individuals. A list of topics and speakers is under construction.

REGISTRATION FEES

Conference fees for participants cover:

- Participation in all scientific activities
- Book of abstracts
- Coffee and beverages during breaks
- Lunch
- Welcome reception
- Conference Banquet
- Free public transport in Braunschweig
- Social event
- Conference Proceedings

Early Registration before April 15th 2004

Students (letter of institution required) :	200 €
Academic :	450 €
Industry / Others :	650 €

Late Registration after April 15th 2004

Students (letter of institution required) :	300 €
Academic :	550 €
Industry / Others :	750 €

On-site Registration (cash only)

Students (letter of institution required) :	350 €
Academic :	600 €
Industry / Others :	800 €

Accompanying person 100 €

Course tuitions (Friday, July 30)

Conference Participants	100 €
Other individuals	250 €

Conference fees for accompanying persons cover:

- Lunch
- Welcome reception
- Conference Banquet
- Free public transport in Braunschweig
- Social event
- Guided tour

INVITED SPEAKERS (as of 02/10/2004)

John Abraham*
Purdue University, USA

Cyrus Aidun
Georgia Institute of Technology, USA

Ali Beskok
Texas A&M University, USA

Dominique d'Humières*
Ecole Normale Supérieure, France

Irina Ginzburg
CEMAGREF, France

Sharath Girimaji
Texas A&M University, USA

Alfons Hoekstra
University of Amsterdam, The Netherlands

Myung S. Jhon
Carnegie Mellon University, USA

Michael Junk*
University of Saarland, Germany

Raymond Kapral
University of Toronto, Canada

Axel Klar
Technical University of Darmstadt, Germany

Manfred Krafczyk*
Technical University of Braunschweig, Germany

Pierre Lallemand
ASCI Lab., France

Li-Shi Luo*
Old Dominion University, USA

Dimitri Mavriplis
University of Wyoming, USA

Dewei Qi
Western Michigan University, USA

Mar Serrano
Universidad Nacional de
Educación a Distancia, Spain

Gerhard Wellein
University of Erlangen-Nuremberg, Germany

* to be confirmed

* to deliver lectures in the short course

INTERNATIONAL SCIENTIFIC COMMITTEE

Prof. John Abraham
School of Mechanical Engineering
Purdue University, USA

Dr. Jos J. Derksen
Kramers Laboratorium voor Fysische
Technologie
Technical University of Delft, The Netherlands

Prof. Franz Durst
Institute of Fluid Mechanics (LSTM)
University of Erlangen, Germany

Prof. Sharath Girimaji
Department of Aerospace Engineering
Texas A&M University, USA

Prof. Axel Klar
FB Mathematik
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Prof. Manfred Krafczyk
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