

August 31

**Σ PRAGUE
2014**
August 25

Particles in Flows

Summer School and Workshop

MAIN LECTURERS:

Martin Sommerfeld - Martin Luther University Halle-Wittenberg, Germany

George Karniadakis - Brown University, USA

Marius Tucsnak - University of Lorraine, France

Franck Sueur - Pierre and Marie Curie University, Paris, France

Mads Kyed - University of Kassel, Germany

Giovanni Paolo Galdi - University of Pittsburgh, USA

Jan Dušek - University of Strasbourg, France

Václav Tesař - Institute of Thermomechanics AS CR, Prague, Czech Republic

Steve Shkoller - University of Oxford, United Kingdom

MAIN TOPICS:

Dispersed multiphase flows

Bubbly flows

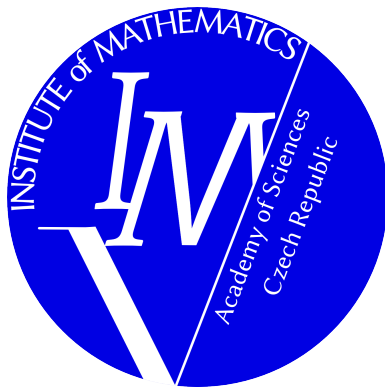
Particle laden flows

Fluid-structure interaction problems

Forces acting on particles and droplets

Numerical methods for particle-laden flows

Particle-based Lagrangian methods



Academy of Sciences of the Czech Republic
Institute of Mathematics



University of Pittsburgh
Swanson School of Engineering



Czech Technical University in Prague
Faculty of Mechanical Engineering

WWW: <http://www.prague-sum.com>

E-mail: support@prague-sum.com

Scope of the Event:

The aim of the summer school is to present a comprehensive series of lectures on various aspects of problems involving particles in flows. It is organized as a multidisciplinary event with topics ranging from theoretical and numerical mathematics up to physics and applications. The emphasis will be on models related to topics originating in environmental, biomedical and industrial applications. The summer course is prepared for graduate students, young scientists, and other interested specialists. Besides of the course lectures, the program will include a one day workshop (on Wednesday, August 27) dedicated to short, more advanced lectures given by attending scientists.

Course Location:

The whole course and workshop will be held at the Institute of Mathematics of the Academy of Sciences of Czech Republic.
Institute of Mathematics, AS CR, Žitná 25, CZ - 115 67 Praha 1, Czech Republic

Registration Fees:

The registration fee covers course materials and refreshment during breaks. The accommodation and travel expenses are not covered.

	Early	Late
Student fee (whole course & workshop)	240 €	270 €
Full regular fee (whole course & workshop)	320 €	350 €
Limited fee (workshop only)	160 €	180 €

The early registration should be received before July 31, 2014.

The fee should be paid by a bank transfer to the following account:

IBAN: CZ80 0710 0000 0000 6962 3011

SWIFT: CNBACZPP

Bank Name: Ceska narodni banka

Bank Address: Na Prikope 28, 115 03 Praha 1

Account Holder: Matematicky ustav AV CR, v.v.i.

Variable Symbol: (will be assigned during registration)

For other forms of payment contact the organizers.

Support for Students and Young Scientists:

Few grants will be available for students and young scientists. Please only ask for this support if you can not attend the summer school without it and you have no other funds to use. Depending on the number of applicants the exact amount of support will be announced after the application deadline. The grant will cover at least the registration fee. Those participants who will benefit from the support will be asked to present a poster showing their own scientific work. *A formal application, containing short CV, motivation letter and recommendation letter, should be received by organizers before July 31, 2014.*

For detailed information contact the course organizers:

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