



FLOW Summer school in Micro and Complex flow

August 22-August 25, 2011
KTH Royal Institute of Technology
Stockholm, Sweden
Linné FLOW Centre, KTH Mechanics



<http://www.flow.kth.se/graduateschool>

Scope:

Some of the major issues in micro and complex fluid dynamics involve flow at small length scales, particle suspensions dynamics, non-Newtonian rheology and free surface effects. In many situations the models, methods and knowledge developed for larger length scales or less complex fluids are not sufficient and “common knowledge” fluid dynamics might in fact often lead to false conclusions. For participants not yet familiar with micro and complex flow, this course provides an opportunity to approach the field. For students already active in the field, aspects of fluid dynamics of suspensions, flow in micro- and nanochannels and wetting dynamics will be covered in depth.

Invited Teachers:

Prof. **Eric Shaqfeh**,
Stanford University, USA

Prof. **Henrik Bruus**,
Denmark University of Technology

Prof. **Laurent Limat**,
Université Paris Diderot-Paris 7

Topics:

The summer school will cover the following topics in the area of Micro and complex fluids:

- Fluid mechanics of suspensions.
- Micro- and nanochannel flow with an emphasis on electrokinetics.
- Issues in wetting with an emphasis on complex geometries.

Location and outline:

The course will be given between August 22-August 25, 2011.

The Course will be held in the main campus of KTH Stockholm, conveniently located close to the city center of Stockholm, Sweden. The course will be based on lectures followed by active work from all participants. A poster session in which the participants are encouraged to present their own work will also be held.

Registration:

The course is free of charge. Interested students are invited to contact Fredrik Lundell, fredrik@mech.kth.se. For further information please visit the homepage of the Linné FLOW Centre (<http://www.flow.kth.se>) where updated information will be posted. The number of participants is limited to 40 students.

Contact:

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