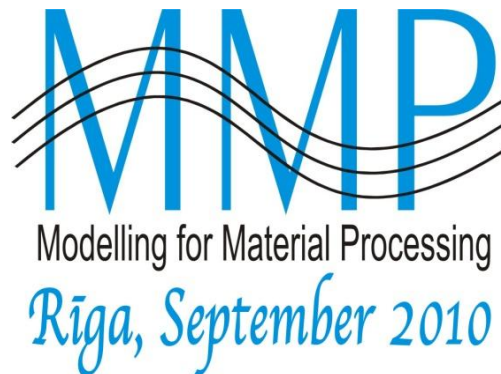


University of Latvia
Leibnitz University of Hannover

Course Programme



Intensive Course for PhD students
Modelling for Material Processing
Riga, September 10 - 15, 2010

Time and Location

The course will take place on September 10-15, 2010 in the Faculty of Physics and Mathematics of University of Latvia, 8 Zellu Street in Riga.

The building of the Faculty is located near the city centre and is easy accessible with public transportation (see map and additional information: www.modlab.lv).

Course Office and Contact Address

Prof. A. Jakovics, Chairman of the organising committee

Ms. I. Suija, Secretary

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Supported by

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Centre of Processes Analysis and Research, Ltd.

Friday, September 10nd 2010

- 08.30-09.00 Registration of participants at the Faculty of Physics and Mathematics, University of Latvia, Zellu str. 8
- 09.00-09.15 Opening (Prof. M. Auzins - UL)
- 09.15-09.30 Introduction to the Course Programme (Prof. A. Jakovics - UL)
- 09.30-11.00 Short presentation of their research work by the participants of the intensive course (about 10 minutes presentation each)
- 11.00-11.30 Coffee break
- 11.30-13.00 1.1. Three industrial relevant electrodynamic effects and their experimental, analytical and numerical analysis (Prof. A. Muiznieks, A. Sabanskis - UL)
- 13.00-14.00 Lunch
- 14.00-15.30 1.2. Three industrial relevant electrodynamic effects and their experimental, analytical and numerical analysis (Prof. A. Muiznieks, A. Sabanskis - UL)
- 15.30-16.00 Coffee break
- 16.00-17.30 1.3. Three industrial relevant electrodynamic effects and their experimental, analytical and numerical analysis (Prof. A. Muiznieks, A. Sabanskis, UL)
- 18.00-20.00 Welcoming cocktail

Saturday, September 11rd 2010

- 09.00-10.30 2.1. Ultrasound in water: experiment and simulation (Dr. J. Virbulis, A. Timuhins, T. Sile - UL)
- 10.30-11.00 Coffee break
- 11.00-12.30 2.2. Ultrasound in water: experiment and simulation (Dr. J. Virbulis, A. Timuhins, T. Sile - UL)
- 12.30-13.15 Lunch
- 13.15-14.00 2.3. Ultrasound in water: experiment and simulation (Dr. J. Virbulis, A. Timuhins, T. Sile - UL)
- 14:00-14:10 Coffe break
- 14.10-16.00 Work in groups

Sunday, September 12rd 2010

- Free time, sightseeing in Riga
- 19.00-21.00 Party at the national style restaurant "Lido"

Monday, September 13th 2010

- 09.00-10.30 3.1. DNS/LES of incompressible turbulent flows (Prof. R. Friedrich - TU Munich)
- 10.30-11.00 Coffee break
- 11.00-12.30 3.2. DNS/LES of compressible turbulent flows (Prof. R. Friedrich - TU Munich)
- 12.30-13.30 Lunch

- 13.30- 16.00 3.3. LES applications for simulation of liquid metal turbulent flows (Prof. A. Jakovics, Dr. S. Pavlovs - UL)
- 16.00-16.30 Coffee break
- 16.30-18.00 3.4. LES applications for simulation of liquid metal turbulent flows (V. Geza, M. Scepanskis, S. Spitans - UL)

Tuesday, September 14th 2010

- 09.00-10.30 4.1. Silicon single crystals – growth technology and crystal properties (Dr. H. Riemann - IKZ, Berlin)
- 10.30–11.00 Coffee break
- 11.00-12.30 4.2. Silicon single crystals – growth technology and crystal properties (Dr. H. Riemann - IKZ, Berlin)
- 12.30-13.30 Lunch
- 13.30-15.00 4.3. Mathematical modelling and practical calculations of industrial floating zone silicon single crystal growth (Prof. A. Muiznieks, A. Sabanskis - UL)
- 15.00-15.30 Coffee break
- 15.30-17.00 4.4. Mathematical modelling and practical calculations of industrial floating zone silicon single crystal growth (Prof. A. Muiznieks, A. Sabanskis - UL)

Wednesday, September 15th 2010

- 09.00-10.30 5.1. Induction heating technologies (Prof. B. Nacke – Leibnitz University Hannover)
- 10.30-10.50 Coffee break
- 10.50-12.20 5.2. Induction melting technologies (Prof. E. Baake – Leibnitz University Hannover)
- 12.20-13.00 Lunch
- 13.00-14.30 Preparation of presentations of group work
- 14.30-15.00 Coffee break
- 15.00-16.30 Presentation of the work done during the intensive course and discussion (30 minutes for each group)
- 16.30-17.00 Complimentary speech (I. Pranka - Baltic-German University Liaison Office)
- Closing discussion. Issuing of certificates.
- 18.00-19.45 Registration to MMP-10 International Scientific Colloquium
- 20.00-22.00 Welcome reception of MMP-10

Thursday, September 16th and Friday, September 17th 2010

Full participation in MMP-10 International Scientific Colloquium