



Swedish Research School in Tribology

A course on
Contact Mechanics
November 17-19, 2009
Royal Institute of Technology

Preliminary programme

November 17, 2009 (Tuesday)

08:15 – 08:30 Welcome (SB/UO)
08:30 – 10:00 An introduction to contact mechanics (SB)
10:00 – 10:15 Coffee break
10:15 – 12:00 Hertz theory (UO)
12:00 – 13:15 Lunch
13:15 – 15:00 Numerical methods BEM/Winkler (SB)
15:15 – 15:30 Coffee break
15:30 – 17:30 Laboratory work
18:30 – Evening activities/dinner

November 18, 2009 (Wednesday)

08:15 – 10:00 Numerical methods Multigrid/FFT (AA)
10:00 – 10:15 Coffee break
10:15 – 11:00 Plastic deformation (SB)
11:15 – 12:00 Rolling/Sliding contacts (AS)
12:00 – 13:15 Lunch
13:15 – 15:00 Flash temperatures (RB)
15:00 – 15:15 Coffee break
15:15 – 17:30 Laboratory work
18:30 – Evening activities/dinner

November 19, 2009 (Thursday)

08:15 – 10:00 Acoustic emissions (RL)
10:00 – 10:15 Coffee break
10:15 – 12:00 FEM in contact mechanics (US)
12:00 – 13:15 Lunch
13:15 – 14:00 Statistical methods/Rough surfaces (SB)
14:00 – 14:15 Coffee break
14:15 – 16:00 Laboratory work

SB: Stefan Björklund, Dr., Royal Institute of Technology
UO: Ulf Olofsson, Prof., Royal Institute of Technology
AA: Andreas Almqvist, Dr., Luleå University of Technology
AS: Anders Söderberg, Dr., Royal Institute of Technology
RB: R Bosman, University of Twente, Enschede, The Netherlands
RL: Roger Lewis, Prof., University of Sheffield, Great Britain
US: Ulf Sellgren, Dr., Royal Institute of Technology