



Swedish Research School in Tribology

Course programme

Place: Uppsala University

Time: 13-15 April 2010

Course title:

Tribological materials and coatings

Tuesday, April 13

- 8:15** **Welcome and Introduction (Urban)**
8:30 **Material fundamentals (Urban)**
9:30 *Coffee break*
10:15 **Microstructure and properties (Åsa)**
11:00 **Functional surface properties (Staffan)**
11:45 *Lunch at Rullan*
13:00 **Functional surface properties (Staffan)**
14:15 **Solid lubricating materials and films (Braham)**
15:00 *Coffee break*
15:15–17:00 **Surface modifications (Staffan)**
18.30 *Dinner*

Wednesday, April 14

- 8:30** **Deposition techniques and film growth (Urban)**
10:00 *Coffee break*
10:15 **A coatings smorgasbord (Bojan)**
12:00 *Lunch at Rullan*
13:00 **Lab work: I, II**
15:00 *Coffee break*
15:15–17:15 **Lab work: III, IV**
18:00 *Dinner*



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Thursday, April 15

- 9:15** **Chemical, structural and mechanical characterisation (Åsa)**
10:00 *Coffee break*
- 10:15** **Tribological test methods (Staffan)**
- 11:00** **Tribofilm Case studies (Staffan)**
11:40 *Lunch at Rullan*
- 13:00** **Lab work: V, VI**
- 15:00* *Coffee break*
- 15:15–16:00** **Summary. Homework and information about examination. (Urban)**

Speakers:

Professor Staffan Jacobson, Tribomaterialgruppen, Tillämpad materialvetenskap, UU

Docent Åsa Kassman, Tribomaterialgruppen, Tillämpad materialvetenskap, UU

Docent Urban Wiklund, Tribomaterialgruppen, Tillämpad materialvetenskap, UU

Professor Braham Prakash, Luleå University of Technology

Docent Bojan Podgornik, Centre for Tribology and Technical Diagnostics, University of Ljubljana, Slovenien