



Programme

Location YKI Drottning Kristinas väg 45

Wednesday 27th April

- 9.15 - 10 Mechanical properties and real area of contact (UO)**
- 10.15 - 11 Friction 1 (UO)**
- 11.15 – 12 Friction 2 (UO)**
- 12 - 13 Lunch Quantum**
- 13.15 – 14 Surface energy and adhesion (MR)**
- 14.15 - 15 Materials on the small scale (ÅKR)**
- 15.15 – 17 Laboratory exercise**
- 17.15 Dinner YKI**

Thursday 28th April

- 9.15 – 10 Surface forces (MR)**
- 10.15 – 11 Surface forces 2, measuring surface forces (MR)**
- 11.15 – 12 Surfaces and friction (MR)**
- 12 – 13 Lunch Quantum**
- 13.15 – 14 Lubrication (UO)**
- 14.15 – 15 Lubrication in tight spots (MR)**
- 15.15 – 17 Laboratory exercise**
- 18.00 Dinner Beirut cafe 18.00**

Friday 29th April

9.15 – 10 Atomistic origin of friction (MR/VO)

10.15 – 11 Atomistic simulation (to be decided)

11.15 – 12 Bio lubrication (NS)

12 – 13 Lunch Quantum

13.15 – 15 Laboratory exercise

MR Mark Rutland KTH

VO Ulf Olofsson KTH

NS Nick Spencer

ÅKR Åsa Kassmann Rudolphi UU

**Recommended literature: Mathew Mate, Tribology on the small scale, Oxford
University Press (2008).**