

PROGRAM

5th SUMMER SCHOOL FOR SYNCHROTRON RADIATION USERS

KUORTANE 11.-13.8.2008

Monday 11.8.

- 10:45-11:00** **Arrival** (Liikuntahotelli)
- 11:00-12:00** **Lunch** (restaurant Aalto)
- 12:00-14:00** **Session I** (chair Seppo Aksela)
- 12:00-12:10 Welcome to Kuortane
- 12:10-12:20 Welcome to summer school (Helena Aksela)
- 12:20-13:20 Edwin Kukk: *Recoil effects in high-energy molecular photoionization*
- 13:20-13:40 Sari Mattila: *Metal-metal multilayers and HIKE*
- 13:40-14:00 Eero Itälä: *Fragmentation studies of nitrile molecules using PEPICO*
- 14:00-14:30** **Coffee break** (restaurant Aalto)
- 14:30-17:00** **Session I continues** (chair Edwin Kukk)
- 14:30-15:30 Arno Ehresmann (invited):
Photon-induced fluorescence in atomic photoionization and molecular photodissociation
- 15:30-15:50 Marja Ahola-Tuomi: *Bi nanolines on InAs(100)*
- 15:50-16:10 Riitta Perälä: *Yb/Si(100) surface structures*
- 16:10-16:30 Petri Jussila: *Photoelectron spectroscopic investigations of FeCr and FeCrNi alloy surfaces*
- 16:30-17:00** **Accommodation**
- 17:00-19:00** **Dinner** available at Eppula Buffet
- 20:30-22:30** **Sauna** available

Tuesday 12.8.

7:00-9:00 **Breakfast** available at Eppula Buffet

9:00-12:00 **Session II** (chair Ergo Nömmiste)

9:00-9:35 Marko Huttula: *Experimental methods used in electron spectroscopy in Oulu*

9:35-10:10 Sami Heinäsmäki: *Computational methods in electron spectroscopy in Oulu*

10:10-10:30 *Conference photo, make sure you look beautiful*

10:30-11:00 Leena Partanen: *Auger spectroscopic investigations of atomic vapors*

11:00-11:20 Mikko-Heikki Mikkela: *Photoelectron spectroscopy of metal clusters using an exchange metal cluster source*

11:20-11:40 Minna Patanen: *Strong molecular field effects in Auger decay of K 2p core hole state in Kcl, Kbr and KI*

11:40-12:00 Johannes Niskanen: *VUV absorption of laser-excited Rb and Cs*

12:00-13:00 **Lunch** (restaurant Aalto)

13:00-15:30 **Session II continues** (chair Ritva Serimaa)

13:00-13:20 Kari Jänkälä: *Interference effects in coherent resonant Auger decay*

13:20-13:40 Samuli Urpelainen: *Finest brachline at MAX III*

13:40-14:00 Sergey Osmekhin: *Fragmentation of molecular tributyltin chloride*

14:00-14:20 Antonio Calo: *Antimony clusters*

14:20-14:40 Ari Mäkinen: *Deconvolution methods in spectroscopy*

15:00-15:30 **Coffee break** (restaurant Aalto)

15:30-17:00 **Session III**

15:30-16:30 Arno Ehresmann (invited):
Soft X-ray resonant magnetic dichroism as an element specific probe for magnetic multilayers

16:30-17:00 *Discussion, many new ideas come up*

19:00 **Summer school dinner** (restaurant Aalto)

21:30-23:00 **Sauna** available

Wednesday 13.8.

7:00-9:00 **Breakfast** available at Eppula Buffet

9:00-12:00 **Session IV** (chair Sami Heinäsmäki)

9:00-9:20 Ritva Serimaa: *Greetings from Helsinki*

9:20-10:20 Mikko Hakala *Liquids and molecular systems by X-ray Compton and Raman scattering*

10:20-10:40 Iina Juurinen: *Molecular dynamics study of ethanol-water mixtures*

10:40-11:00 *A breath of fresh air*

11:00-12:00 Liisa Porra (invited):
Medical applications of synchrotron radiation at the European Synchrotron Radiation Facility

12:00-13:00 **Lunch** (restaurant Aalto)

13:00-15:00 **Session IV continues** (chair Marko Huttula)

13:00-13:40 Marko Peura: *X-ray microtomography – synchrotron facilities vs. desktop devices*

13:40-14:00 Kaisa Kisko: *Characterization of hydrophobin proteins at interfaces and in solutions using X-rays*

14:00-14:20 Kari Pirkkalainen: *Nanoscale characterization of materials with X-ray synchrotron radiation*

14:20-14:40 Heikki Suhonen: *Scattering in x-ray imaging*

14:40-15:10 **Coffee break** (restaurant Aalto)

15:10-16:30 **Session V** (chair Helena Aksela)

15:10-15:30 Rainer Pärna: *X-ray spectroscopic studies of oxidation of austenitic stainless steel*

15:30-16:30 Ergo Nõmmiste: *Present and future activities at North-European Large Scale Facilities*

16:30 **Conclusion**

17:00-19:00 **Dinner** available at Eppula Buffet

Departure

18:15 **Bus to Seinäjoki**

List of participants

Ahola-Tuomi Marja	University of Turku
Aksela Helena	University of Oulu
Aksela Seppo	University of Oulu
Calo Antonio	University of Oulu
Ehresmann Arno	University of Kassel
Hakala Mikko	University of Helsinki
Heinäsmäki Sami	University of Oulu
Huttula Marko	University of Oulu
Itälä Eero	University of Turku
Jussila Petri	Tampere University of Technology
Juurinen Iina	University of Helsinki
Jänkälä Kari	University of Oulu
Kallonen Aki	University of Helsinki
Kisko Kaisa	University of Helsinki
Kukk Edwin	University of Turku
Markkanen Tommi	University of Helsinki
Mattila Sari	University of Turku
Mikkilä Mikko-Heikki	University of Oulu
Mäkinen Ari	University of Oulu
Niskanen Johannes	University of Oulu
Nömmiste Ergo	Institute of Physics, Tartu
Osmekhin Sergey	University of Oulu
Partanen Leena	University of Oulu
Patanen Minna	University of Oulu
Perälä Riitta	University of Turku
Peura Marko	University of Helsinki
Pirkkalainen Kari	University of Helsinki
Porra Liisa	ESRF, Grenoble
Pärna Rainer	Institute of Physics, Tartu
Serimaa Ritva	University of Helsinki
Suhonen Heikki	University of Helsinki
Suuronen Jussi-Petteri	University of Helsinki
Urpelainen Samuli	University of Oulu

Number of participants: 33