

PROGRAM

SMART LIGHTHOUSE School on Materials Research with Synchrotron, Neutron, XFEL & Electron Sources



Monday, June 15th

10.00 – 11.30 **Arrival at Sandbjerg Estate & Poster Placement**

11.30-12.30 Lunch

12.30-13:45 **Introduction to synchrotron radiation and synchrotron sources**

Mads Ry Vogel Jørgensen, MAX4 and Aarhus University

13.45-15.00 **Introduction to neutrons and neutron sources**

Kim Lefmann, University of Copenhagen, Denmark

15.00-15.30 Coffee

15.30-16.45 **Introduction to XFEL & Time Resolved X-ray Science**

Martin Meedom Nielsen, DTU

16.45-18.00 **Introduction to electron microscopy and diffraction**

Espen Bøjesen, Aarhus University

18.30-19.30 Dinner

19.30-21.00 **Poster presentations (3 minutes, 3 slides) P01-P25**

21.00-22.00 **Poster session**

Tuesday, June 16th

8.30-10.00 **The Danish Beamlines**

- Bifrost: Niels Bech, DTU
- DanMAX: Mads Jørgensen, Aarhus University
- Heimdal: Mogens Christensen, Aarhus University

- 10.00-10.30 Coffee**
- 10.30-11.30 **Detectors**
Heinz Grafsma, DESY
- 11.30-14.00 Lunch break**
- 14.00-15.00 **Powder diffraction**
Andy Fitch, ESRF
- 15.00-16.00 **Pump-Probe X-ray science/Ultrafast X-ray science**
Dominik Schaniel, University of Lorraine
- 16.00-16.30 Coffee**
- 16.30-17.30 **Inelastic Neutron Scattering**
Niels Bech, DTU
- 17.30-18.30 **E-XFEL**
Robert Feidenshans'1, E-XFEL
- 18.30-19.30 Dinner**
- 19.30-21.00 **Poster presentations (3 minutes, 3 slides) P25-P50**
- 21.00-22.00 **Poster session**

Wednesday, June 17th

- 9.00-10.00 **XAS and EXAFS**
Nina Lock, Aarhus University
- 10.00-10.30 Coffee**
- 10.30-11.30 **X-ray Imaging**
Henning Friis Poulsen, DTU
- 11.30-14.00 Lunch**
- 14.00-15.00 **XPS and ARPES**
Marco Bianchi, Aarhus University
- 15.00-15.30 Coffee**
- 15.30-17.00 **SAXS, SANS, GISAXS, XRR, NR**
Dorthe Posselt, Roskilde University
- 17.00-18.00 **Materials research with electrons**
Xiaodong Zou, Stockholm University
- 18.30-19.30 Dinner**
- 19.30-20.30 **XFEL science at SACLA**
Ichiro Inoue, SACLA

Thursday, June 18th

- 8.00** **Travel to DESY, Hamburg**
 Full-day excursion at PETRA-III and E-XFEL (return to Sandbjerg Estate)
- 18.30-19.30** **Dinner**
- 19.30-20.00** **Linking Industry to X-rays and Neutrons – the LINX project**
 Jacob Becker, LINX
- 20.00-20.30** **Industrial use of large facilities**
 Lars Fahl Lundegaard, Haldor Topsøe

Friday, June 19th

- 9.00-10.00** **SLIT-J project**
 Masaki Takata, Tohuko University
- 10.00-10.30** **Coffee**
- 10.30-11.30** **X-Ray Tomography**
 Henrik Birkedal, Aarhus University
- 11.30-14.00** **Lunch**
- 14.00-15.00** **Total Scattering and Pair Distribution Function**
 Kirsten Jensen, University of Copenhagen
- 15.00-15.30** **Coffee**
- 15.30-16.30** **Operando Studies**
 Poul Norby, DTU
- 16.30-17.30** **High Pressure Diffraction**
 Martin Bremholm, Aarhus University
- 18.30-20.30** **Summer School Banquet Dinner**
- 20.30-23.00** **Networking**

Saturday, June 20th

- 9.30** **Departure from Sandbjerg Estate**