

PROGRAM

DANSCATT & MAX4ESSFUN School on Materials Research with Synchrotron, Neutron and XFEL Sources



Monday, June 25th

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

11.30-12.30 Lunch

12.30-14:00 **Production and Properties of X-ray Synchrotron Radiation**
Jens Als-Nielsen, University of Copenhagen, Denmark.

14.00-15.00 **Introduction to Neutrons**
Jens Als-Nielsen, University of Copenhagen, Denmark

15.00-15.30 Coffee

15.30-17.00 **Introduction to Neutron Sources**
Mogens Christensen, Aarhus University

17.00-18.30 **Powder diffraction**
Andy Fitch, ESRF

18.30-19.30 Dinner

19.30-22.00 **Poster Session** beginning with **3 min presentation of P01-P30**

Tuesday, June 26th

8.30-10.00 The Danish Beamlines

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

10.00-11.30 Introduction to XFEL & Time Resolved X-ray Science
Martin Meedom Nielsen, DTU

11.30-12.30 Lunch

12.30-13.30 MAX-IV
Christof Quitman, MAX-IV

13.30-15.00 X-ray Imaging
Henning Friis Poulsen, DTU

15.00-15.30 Coffee

15.30-17.00 XAS and EXAFS
Giannantonio Cibir, Diamond Light Source

17.00-18.30 XPS and ARPES
Marco Bianchi, Aarhus University

18.30-19.30 Dinner

19.30-22.00 Poster Session beginning with 3 min presentation of P31-P60

Wednesday, June 27th

- 8.30-10.00 **High Pressure Diffraction**
Mohammed Mezouar, ESRF
- 10.00-11.30 **Inelastic Neutron Scattering**
Niels Bech, DTU
- 11.30-12.30 Lunch**
- 12.30-14.00 **Small Angle Scattering**
Dorthe Posselt, Roskilde University
- 14.00-15.30 **Electron Densities & Polarized Neutron Scattering**
Jacob Overgaard, Aarhus University
- 15.30-16.00 Coffee**
- 16.00-17.00 **SLIT-J**
Masaki Takata, SLIT-J
- 17.00-18.30 **PETRA-III: Science at beamline P.02**
Michael Wharmby, DESY
- 18.30-19.30 Dinner**
- 19.30-22.00 **Workshop: How to Write a Beamtime Proposal?**
TBA

Thursday, June 28th

- 8.15-11.00 **Travel to DESY, Hamburg**

Full-day excursion at PETRA-III and E-XFEL (return to Sandbjerg Estate).
- 18.30-19.30 Dinner**
- 19.30-22.00 **Poster Session & Networking**

Friday, June 29th

- 8.30-10.00 **X-Ray Tomography**
Henrik Birkedal, Aarhus University
- 10.00-11.30 **Elastic Neutron Scattering**
Martin Sahlberg, Uppsala University
- 11.30-12.30 Lunch**
- 12.30-14.00 **Total Scattering and Pair Distribution Function**
Kirsten Jensen, University of Copenhagen
- 14.00-15.30 **Operando Studies**
Dorthe Ravnsbæk, SDU
- 15.30-16.00 Coffee**
- 16.00-17.00 **GISAXS, XRR, NR**
Dorthe Posselt, Roskilde University
- 17.00-18.30 **European Spallation Source**
Andreas Schreyer / Ken Andersen
- 18.30-20.30 Summer School Banquet Dinner**
- 20.30-23.00 Networking session

Saturday, June 30th

- 09.30-09.50 **Student talk #1: Watching Chemistry in Action. *In situ* Study of Tungsten Oxide Nanoparticle Formation**
Mikkel Juelsholt, Copenhagen University
- 09.50-10.10 **Student talk #2: Local Structure of Lead-Free Relaxor Ferroelectrics under Electrical Field**
Frederick Marlton, Aarhus University
- 10.10-10.30 **Student talk #3: Electron Densities of Molecular Crystals from PXRD**
Bjarke Svane, Aarhus University
- 10.30-10.50 **Student talk #4: Structure of Poly(isoprene-*b*-styrene-*b*-methyl-methacrylate) Star Terpolymer Thin Films: GISAXS and X-Ray Reflectivity Studies**
Sina Ariaee, RUC
- 10.50-11.10 **Student talk #5: TBA**
- 11.10-11.30 **Student talk #6: TBA**
- 11.30-12.30 Lunch**
- 12.30 **Departure from Sandbjerg Estate**