

**LINXS Hosted event - a
non-specialized summer
school: Imaging of
3D-structures**

Report of Contributions

Contribution ID : 1

Type : **not specified**

Welcome Introduction to MAX IV and ESS

Monday, 30 September 2019 08:30 (210)

- Welcome and overview of course by Martin Bech, Senior lecturer at Medical Radiation Physics, Lund university
- Lecture “High resolution x-ray tomography”, by Rajmund Mokso, Researcher and Project Manager at MAX IV
- Lecture “The European Spallation Source”, by Zoë Fischer, Group Leader for Deuteration and Macromolecular Crystallisation, ESS ERIC

Contribution ID : 2

Type : **not specified**

Application examples and Student clip session

Monday, 30 September 2019 13:00 (210)

- Lecture “Life Science at the First Ultimate Storage Ring”, by Uwe Müller, Researcher at MAX IV
- Lecture “Synchrotron X-ray imaging for life science and paleontology”, by Tomas van de Kamp, Project Leader for Research Area Life Science, Head of IPS BioLab, Karlsruhe Institute of Technology (KIT)
- Student clip session

Contribution ID : 3

Type : **not specified**

Attenuation based x-ray and neutron imaging

Tuesday, 1 October 2019 08:30 (210)

- Lecture “LBIC bioimaging centre”, by Ritha Gidlöf, Researcher at Lund University Bioimaging Center (LBIC)
- Lecture “Phase contrast imaging” by Martin Bech, Senior lecturer at Medical Radiation Physics, Lund university
- Lecture “New light on Alzheimer’s disease” , by Oxana Klementieva, Associate senior lecturer at Medical Microspectroscopy, PI at MultiPark and Associate Senior Lecturer at NanoLund, Lund university

Contribution ID : 4

Type : **not specified**

Image processing and data treatment

Tuesday, 1 October 2019 13:00 (210)

- Lecture “Polarized Imaging - A Journey Towards Circular Dichroism Imaging and what to do if you cannot afford it!”, by Cedric Dicko, Associate professor at Pure and Applied Biochemistry
- Image analysis tutorial, led by Martin Bech, Senior lecturer at Medical Radiation Physics, Lund University and Stephen Hall, Senior lecturer at Solid Mechanics and Director of LINXS

Contribution ID : 5

Type : **not specified**

Diffraction and structural biology

Wednesday, 2 October 2019 08:30 (210)

- Lecture “Introduction to crystallography in structural biology”, by Karin Lindqvist, Professor at Medical Structural Biology as well as BioCARE and EXODIAB
- Lecture “Crystallisation facilities at LU”, by Derek Logan, Senior lecturer at Biochemistry and Structural Biology
- Lecture “LP3 - LU protein production and labeling facility”, by Wolfgang Knecht, Senior lecturer at Molecular Cell Biology and at BiOCARE

Contribution ID : 6

Type : **not specified**

Refraction and phase contrast

Wednesday, 2 October 2019 13:00 (210)

- Lecture “Life Science Opportunities at ESS”, by Zoë Fisher, Group Leader for Deuteration and Macromolecular Crystallisation, ESS ERIC
- Lecture “Neutron Imaging: Principles and Applications”, by Robin Woracek, Instrument Scientist for test beamlines and engineering, ESS ERIC

Contribution ID : 7

Type : **not specified**

X-ray Microscopy methods

Thursday, 3 October 2019 08:30 (210)

- Lecture “Scanning x-ray microscopy”, by Cris Jacobsen, Argonne Distinguished Fellow, Advanced Photon Source, Argonne National Laboratory Professor, Physics & Astronomy; Applied Physics; Chemistry of Life Processes Institute; Northwestern University
- Lecture “3-d imaging Applications in current Archaeology”, by Björn Nilsson, Researcher at the Dept. of Archaeology
- Lecture “SAXS imaging - Introduction to X-ray phase-contrast and dark-field imaging”, by >Martin Bech, Senior lecturer at Medical Radiation Physics, Lund University
- Lecture “Electron Microscopy”, by Dmytro Orlov, Professor at Materials Engineering, Faculty of Engineering, LU

Contribution ID : 8

Type : **not specified**

Fluorescence imaging

Thursday, 3 October 2019 13:00 (210)

- Lecture “STXM, CXI and SoftiMAX”, by Jörg Schwenke, Researcher at MAX IV Laboratory
- Lecture “An introduction to x-ray fluorescence microscopy”, by Chris Jacobsen, Argonne Distinguished Fellow, Advanced Photon Source, Argonne National Laboratory Professor, Physics & Astronomy; Applied Physics; Chemistry of Life Processes Institute; Northwestern University

Contribution ID : 9

Type : **not specified**

Poster session and Banquet dinner

Thursday, 3 October 2019 18:00 (123)

Contribution ID : **10**

Type : **not specified**

Visit at MAX IV and ESS

Friday, 4 October 2019 08:30 (210)

Contribution ID : 11

Type : **not specified**

Proposal writing workshop, Closure

Friday, 4 October 2019 13:00 (210)