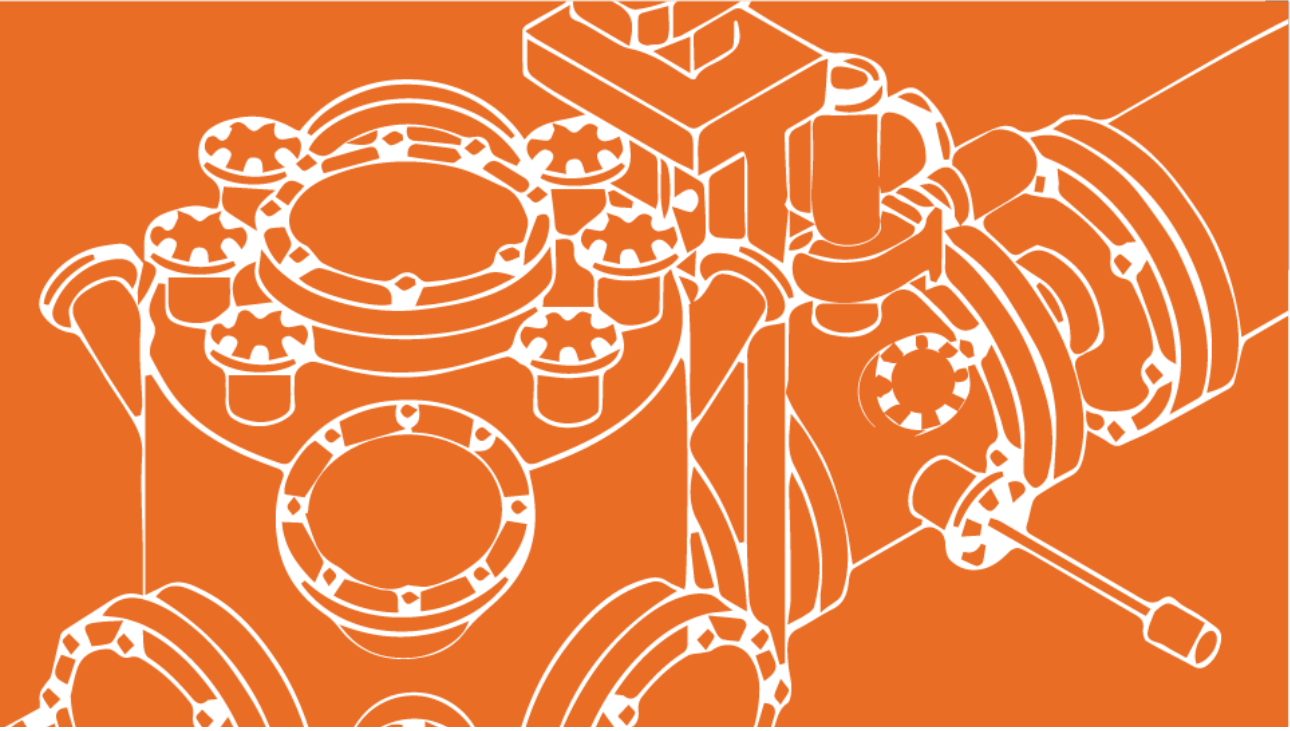


# NFFA-EUROPE WORKSHOP

📅 26.09.2023

Hybrid event:  
Online | Heinz Maier-  
Leibnitz Zentrum (MLZ),  
Garching/Munich, DE



🕒 14.00 - 17.50

## **BRIDGING MICROSCOPY AND ANALYTICAL LARGE-SCALE FACILITIES**

This NFFA workshop aims to foster the application of X-ray and neutron experiments at analytical large-scale facilities combined with complementary lab-based microscopy. The opportunity to collect different microscopic, spectroscopic information and to extract one-to-one structure-property-relationships utilizing different imaging modalities is highly attractive for interdisciplinary nanoscience communities. On one hand, typical complementary results in, e.g., soft matter, involving neutron, X-ray and electron microscopy will be presented. On the other hand, recent advances and challenges are discussed during this NFFA workshop in order to establish a user platform permitting to collect correlative structural and chemical information of nanoscale objects.

# Agenda

Chairs: Marie-Sousai Appavou (*FZJ*), Thomas Keller (*DESY*)

## FIRST SESSION

- 14:00 - 14:30 Colloidal doped-quantum dots for sensing and photocatalysis: from chemical design to advanced physicochemical features  
Giuseppe Vitiello, University of Naples, Naples, Italy
- 14:30 - 14:50 Elucidating the Structural Pathways for Lipid Membrane Solubilization using Electrons, Neutrons and X-rays  
Reidar Lund, University of Oslo, Oslo, Norway
- 14:50 - 15:10 Combination of small-angle neutron scattering and electron microscopy opens new vistas in ultrastructural studies of photosynthetic membranes  
Renata Unnep, Centre for Energy Research, Budapest, Hungary
- 15:10 - 15:40 Superchaotropic nano-ion binding as a gelation motif in cellulose ether solutions  
Max Hohenschutz, RWTH Aachen University, Aachen, Germany
- 15:40 - 16:10 Coffee break

## SECOND SESSION

- 16:10 - 16:40 Revealing chemical heterogeneity in the surface layer of a tooling alloy by collaborative imaging using synchrotron X-ray techniques  
Jinshan Pan, KTH, Stockholm, Sweden
- 16:40 - 17:00 Correlative X-ray imaging at ESRF beamline ID21: challenges, developments and recent applications  
Hiram Castillo Michel, ESRF, Grenoble, France
- 17:00 - 17:20 Correlative imaging of Materials: Bridging 2D and 3D  
Alexey Boubnov, KIT, Karlsruhe, Germany
- 17:20 - 17:40 Challenges, progress and prospects for bridging between transmission electron microscopy and other analytical techniques  
Rafal Dunin-Borkowski, FZJ, Jülich, Germany (tbc)
- 17:40 - 17:50 Closing remarks