NEPHEWS - Virtual Training

Monday, November 23rd and Tuesday, November 24th, 2026

Zoom registration link:
https://us06web.zoom.us/meeting/register/Mauz7v8vSBepYWr_cm1LuQ#/registration

Agenda

Monday, November 23rd 2026		
Time (CET):	Topic + title	Chair/Speaker
Session 1		
09:00-09:01	**Welcome from chair**	**Rosen Georgiev (NEPHEWS & TCD)**
09:01-09:15	**Introduction to NEPHEWS Virtual Training**	**Rosen Georgiev (TCD)**
09:15-09:45	**The synchrotron and FEL landscape in Europe**	**Cormac McGuinness (ESUO President)**
09:45-10:15	**The neutron landscape in Europe**	**Astrid Schneidewind (ENSA chair)**
10:15-10:30	*Break*	
10:30-11:30	**Introduction to matter – radiation interaction**	**Federico Boscherini (IOM / CNR / U. Bologna)**
11:30-12:00	**Synchrotron X-ray Absorption Spectroscopy – insights into experimental techniques and science examples**	**Alexey Maximenko (SOLARIS)**
End of Session 1		
12:00-13:30	*Lunch*	
Session 2		
13:30-13:31	**Welcome from chair**	**Mark Johnson (ILL)**
13:31-14:30	**Introduction to neutrons as a probe of matter, materials and processes**	**Mark Johnson (ILL)**
14:30-15:00	**Introduction to nuclear and particle physics**	**Skyler Degenkolb (U. Heidelberg)**
15:00-15:30	**Introduction to neutron spectroscopy: "Neutrons as Probes for Soft Matter – From Cells to Bones"**	**Maria Paula Marques (Uni Coimbra)**
15:30-16:00	*Break*	
16:00-16:30	**Introduction to neutron diffraction**	**Oleksandr Prokhnenko (Helmholtz-Zentrum Berlin)**
16:30-17:00	**Neutron imaging – introduction and examples**	**Markus Strobl (ILL)**
17:00-17:30	**Small angle neutron scattering and neutron reflectometry – introduction and examples**	**Andrew Jackson (ESS)**
End of Session 2		

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Tuesday, November 24th 2026		
Time (CET):	Topic + title	Chair/Speaker
Session 3		
09:00-09:01	**Welcome from chair**	**Ewa Partyka-Jankowska (SOLARIS)**
09:01-10:00	**Synchrotron Photoemission spectroscopy – from core levels, to environments**	**Norbert Koch (Humboldt U. Berlin)**
0930-10:00	**Synchrotron X-ray Diffraction – an emphasis on powder diffraction**	**Andy Fitch (ESRF)**
10:00-10:30	**Synchrotron X-ray imaging and computed tomography**	**Kudakwashe Jakata (Diamond Light Source)**
10:30-11:00	**An introduction to Small Angle X-ray Scattering: Theory and Applications**	**Narayanan Theyencheri (ESRF)**
11:00-11:15	*Break*	
11:15-12:15	**Femtosecond X-ray Experiments at X-ray Free Electron Lasers and operating VLab towards a Digital Twin**	**Christian Bressler (EuXFEL, Universität Hamburg)**
12:15-12:45	**Experiments at large scale facilities and FAIR and open data, practice and workflows in X-ray science**	**Bridget Murphy (CAU Kiel/TU Dortmund)**
12:45-13:15	**Infrared FELs, their applications and science examples**	**Stephan Winnerl (Helmholtz Zentrum Dresden Rossendorf)**
End of Session 3		
13:15-14:30	*Lunch*	
Session 4		
14:30-14:31	**Welcome from chair**	**Piotr Piwowarczyk (SOLARIS)**
14:31-15:30	**Accessing beamtime at large scale facilities through NEPHEWS – access modes and proposal writing**	**Giovanna Cicognani (ILL), Rainer Lechner (Montanuniversitaet Leoben)**
15:30-16:00	**Accessing beamtime at large scale facilities for new and non-expert users through NEPHEWS via User-Twinning**	**Philip King (UKRI/ISIS), Cormac McGuinness (ESUO/TCD)**
16:00-16:30 Case studies	**A Case Study of coherent diffraction imaging and small angle scattering of microparticles**	**Basab Chattopadhyay (NTNU)**
16:30-17:00 Case studies	**A Case Study: Neutron scattering to study a low-dimensional magnet**	**Øystein Fjellvåg (IFE)**
End of Session 4		

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