

## Advancements in Transmission Electron Microscopy and Spectroscopy: Exploring analytical and quantitative techniques

### Short Program

Friday 12 July 2024

10:00-10:45	Electron microscopy methods with emphasis on nanomaterials, <u><a href="#">Philomela Komninou</a></u>
11:15-12:00	Introduction to structure analysis based on electron diffraction, <u><a href="#">Anette Eleonora Gunnæs</a></u>
12:00-12:45	Introduction to spectroscopy in an electron microscope - local chemistry and beyond, <u><a href="#">Demie Kepaptsoglou</a></u>

Saturday 13 July 2024

10:00-10:30	Unraveling the complex nanomorphology of conjugated polymers/organic materials by multimodal analytical transmission electron microscopy and cryo-electron microscopy, <u><a href="#">Christos Chochos</a></u>
10:30-11:00	Unlocking biological mysteries with cryo-electron microscopy, <u><a href="#">Fotis Kyrillis</a></u>
11:00-11:30	Advanced studies (liquid/gas/oxidation/strain & phase maps) using in situ TEM 4D-SPED and 3D EDT tomography, <u><a href="#">Stavros Nikolopoulos</a></u>
11:30-11:50	Coffee Break
11:50-12:20	Probing nanoscale light-matter interactions using fast electrons, <u><a href="#">Andrew B. Yankovich</a></u>
12:20-12:50	In situ and operando (S)TEM studies of 2D battery materials, <u><a href="#">Kalliopi Bazioti</a></u>
12:50-13:00	Introduction to SuperSTEM, UK national facility for advanced electron microscopy, <u><a href="#">Demie Kepaptsoglou</a></u>
13:00-13:45	Short Demonstration of the operation of a Nion UltraSTEM100 cs-corrected STEM: Imaging and EELS, <u><a href="#">Demie Kepaptsoglou</a></u>
13:45-14:15	Light Lunch