

See the technologies in action!

There will also be an opportunity to see the Thermo Scientific™ XPS Spectrometers in action, and learn from the experts in a Thermo Scientific Avantage software training workshop.

Save the date 6th XPS Workshop

Fundamentals and applications of surface analysis

June 20th–22nd, 2018

Eggenstein-Leopoldshafen, Germany

X-ray Photoelectron Spectroscopy (XPS) as a widely used analysis technique provides quantitative, chemical state information for surfaces and interfaces. With our XPS workshop we address scientists, engineers, and technicians working in areas of materials science who would like to get insight into the fundamentals of the technique and current applications and research areas.

Leading international scientists and experts from industry will report on a range of important topics such as battery technology, polymer-based structures for devices, screen technology, bio-interfaces, catalysis, corrosion, and new instrument developments.

Moderation:

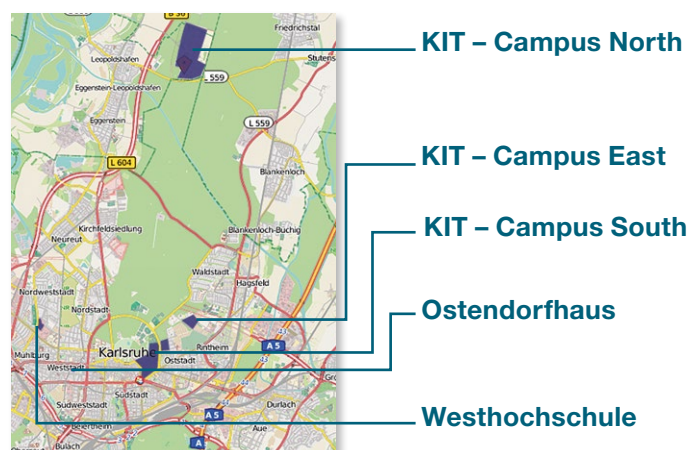
Michael Bruns (1st day) and
Tim Nunney (2nd day)

Agenda

Wednesday, June 20th	
09:00	Registration, Welcome and Refreshments
09:30	Introduction Michael Bruns, Vanessa Trouillet, IAM, Karlsruhe Institute of Technology, Germany; Tim Nunney, Richard White, Thermo Fisher Scientific, UK
09:40	XPS – From the basics to applications in materials sciences Richard White, Thermo Fisher Scientific, UK
10:10	Surface analysis of wood: on growth-rings, orientation, age and species John Watts, University of Surrey, UK
10:40	Applied surface science – XPS at KNMF Michael Bruns, Karlsruhe Institute of Technology, Germany
11:00	XPS study of polymer surfaces treated with an atmospheric pressure plasma jet Matthias Kehrer, Johannes Kepler University, Linz, Austria
11:20	XPS for chemical and electrical characterization of devices Sefik Suzer, Bilkent University, Ankara, Turkey
11:50	Lunch Break
13:30	High resolution imaging using helium ions Ruth Schwaiger, Karlsruhe Institute of Technology, Germany
14:00	Imaging chemistries using SIMS – from maps to tomograms Alexander Welle, Karlsruhe Institute of Technology, Germany
14:20	Rapid XPS mapping: opening up of new fields of application for quantitative chemical state imaging Vanessa Trouillet, Karlsruhe Institute of Technology, Germany
14:40	New developments in microstructural analysis Chris Stephens, Thermo Fisher Scientific, UK
15:00	Coffee Break
15:20	Poster Session Participants
16:30	Flash Presentations Participants / 10 min each
17:30	End
19:00	Dinner sponsored by Thermo Fisher Scientific Richard White Welcome / Opening

Thursday, June 21st	
09:00	Vision and highlights of KNMF Christian Kübel, INT, Karlsruhe Institute of Technology, Germany
09:20	NEXSA – True multi-technique analysis Tim Nunney, Thermo Fisher Scientific, UK
09:50	Multi-technique surface analysis for semiconductor materials Sylvie Rangan, Rutgers University, USA
10:20	Combined XAS, XPS and XRD characterisation of chromium-doped iron [III] oxide catalysts Richard Smith, Johnson Matthey, UK
10:40	Coffee Break
11:00	Surface analytical characterization of high voltage spinel materials for Li-ion batteries Rahleh Azmi, IAM, Karlsruhe Institute of Technology, Germany
11:30	Buried interfaces in lithium ion batteries probed with HAXPES Julia Maibach, IAM, Karlsruhe Institute of Technology, Germany
11:50	Surface fluorination for active electrode protection for Li-ion batteries: Characterization of interfaces mechanisms Delphine Flahaut, University of Pau, France
12:20	Lunch Break
14:00	Applications of XPS – from catalysis to biomaterials David Payne, Imperial College, UK
14:20	Electrochemistry to probe modifications induced by bombardments Damien Aureau, Versailles University de Saint Quentin en Yvelines, France
14:50	Proving the hierarchical structure of polymer layers by XPS depth profiling Ognen Pop-Georgievski, Institute of Macromolecular Chemistry, Prague, Czech Rep
15:20	Improved depth profiling of inorganic and mixed organic/inorganic samples with small argon clusters Robin Simpson, Thermo Fisher Scientific, UK
15:50	Coffee Break
16:10	Flash Presentations Participants / 10 min each
17:00	End / Closing Remarks / Next Event Michael Bruns, Karlsruhe Institute of Technology Tim Nunney, Richard White, Thermo Fisher Scientific, UK

Friday, June 22nd	
09:00	Avantage training: capabilities & applications (K-Alpha demo) Richard White, Tim Nunney, Michael Bruns and Surface Analysis Group
10:30	Coffee Break
11:00	Avantage training: capabilities & applications (K-Alpha demo) Richard White, Tim Nunney, Michael Bruns and Surface Analysis Group
12:30	End

**Venue**

Karlsruhe Institute of Technology (KIT, Campus North)
Hermann-von-Helmholtz-Platz 1
76344 Eggenstein-Leopoldshafen, Germany

Workshop: INT Lecture Hall, Building 640
K-Alpha Demo: IAM-ESS Building 321, 2nd floor
Avantage Training: IAM-ESS Building 441/1

Hotel Recommendation:**Gasthaus zur Krone**

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In partnership with:**Karlsruhe Nano Micro Facility (KNMF)**

Eggenstein-Leopoldshafen, Germany

**Cooperative Research Centre 1176 (SFB 1176)**

Eggenstein-Leopoldshafen, Germany

**Karlsruhe Institute of Technology (KIT)**

Eggenstein-Leopoldshafen, Germany

**Thermo Fisher Scientific**

East Grinstead, UK



Find out more at thermofisher.com/xps-workshop-2018

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