

Invitation 5th XPS Workshop

Fundamentals and Applications
of Surface Analysis

June 22nd–24th, 2016
Eggenstein-Leopoldshafen, Germany

ThermoFisher
SCIENTIFIC

Introduction

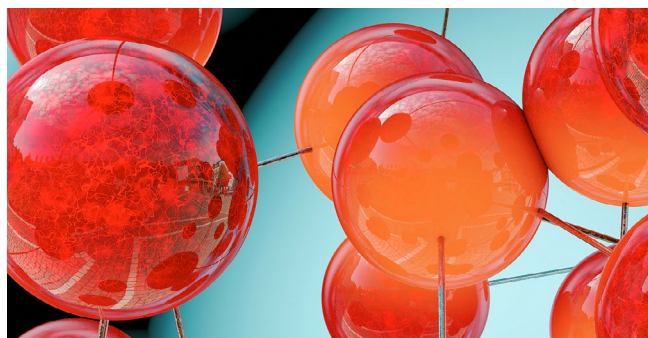
X-ray Photoelectron Spectroscopy (XPS) is a widely used analysis technique, which provides quantitative, chemical state information for surfaces and interfaces.

The XPS workshop addresses 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 industry experts will report on a range of important topics such as polymer surfaces and cluster depth profiling, bio-interfaces, Li-ion batteries, catalysis, corrosion, and new instrument developments. Moreover, the importance of adjacent techniques to support XPS analysis will be introduced, such as Raman, REELS, and He ion microscopy.

Participants are invited to present their own research during the meeting as a flash presentation or as a poster during breaks in the programme.

See the technologies in action! There will also be an opportunity to see the Thermo Scientific™ K-Alpha™ XPS Spectrometer in action, and learn from the experts in a Thermo Scientific Avantage software training workshop.



Agenda

Wednesday, June 22 nd	
Moderation	Richard White
09:00	Registration, Welcome and Refreshments
09:30	Introduction Michael Bruns, IAM, Karlsruhe Institute of Technology, Germany; Richard White, Thermo Fisher Scientific, UK
09:45	XPS – From the basics to applications in materials sciences Richard White, Thermo Fisher Scientific, UK
10:30	Vision and highlights of KNMF Christian Kübel, INT, Karlsruhe Institute of Technology, Germany
10:45	Analytical challenges at the interface between soft matter materials and surface science Christopher Barner-Kowollik, Karlsruhe Institute of Technology, Germany
11:15	Assets of pARXPS and 300mm quasi-insitu analysis for advanced material studies in microelectronic Bernard Pelissier, LETI-CNRS, Grenoble, France
12:00	Lunch Break
13:00	Analysis and monitoring of SrTiO₃ perovskite surfaces and LaAlO₃/SrTiO₃ interfaces with cluster ion source coupled with electrical measurement Damien Aureau, Versailles University de Saint Quentin en Yvelines, France
13:45	In situ at NEXUS in the UK – In situ deposition, in situ multispectral imaging, in situ Raman Peter Cumpson, NEXUS, Newcastle University, UK
14:30	Coffee Break with Poster Session
15:15	Helium Ion Microscopy – A new tool for imaging at the nanoscale Ruth Schwaiger, IAM, Karlsruhe Institute of Technology, Germany
16:00	Flash Presentations Participants
17:00	End
19:00	Dinner sponsored by Thermo Fisher Scientific

Agenda

Thursday, June 23rd

Moderation Michael Bruns

09:00 **Thermo Fisher Scientific XPS portfolio – Trends, new developments, outlook**
Richard White and Tim Nunney, Thermo Fisher Scientific, UK

09:45 **XPS-instrumentation for liquid-processed samples – Concept and first experiences**
Gunther Wittstock, Universität Oldenburg, Germany

10:30 Coffee Break with Poster Session

11:00 **Applied Surface Science – XPS projects at KNMF**
Michael Bruns, IAM, Karlsruhe Institute of Technology, Germany

11:45 **Surface analytical characterization of high voltage spinel materials for Li-ion batteries**
Raheleh Azmi, IAM, Karlsruhe Institute of Technology, Germany

12:30 Lunch Break with Poster Session

13:45 **Improvement of the XPS analysis considering REELS data for the identification of background features**
Manuel Monecke, Technical University Chemnitz, Germany

14:30 **Microanalysis (and Surface Analysis)**
Jürgen Simon, Thermo Fisher Scientific, Germany

15:15 Coffee Break with Poster Session

16:00 **Flash presentations**
Participants

17:00 End

Friday, June 24th

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

Contributions

Participants are invited to present either 5-10 min. oral contributions during the flash presentation sessions or posters during coffee breaks with topics related to XPS in Materials Sciences.

Please provide a title together with your registration.

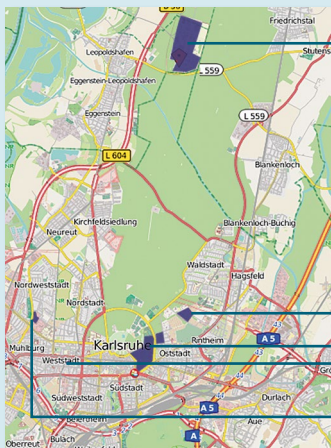
As there is only limited space for both types of contributions, the acceptance will be on a first come – first serve – base in terms of registration.

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KIT – Campus North

KIT – Campus East

KIT – Campus South

Ostendorfhhaus

Westhochschule

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:

Hotel availability is running out fast, so we encourage you to book soon:

Schröcker Tor
Mannheimer Str. 1,
76344 Eggenstein-Leopoldshafen
www.hotel-schroecker-tor.de
+49 (0)7247 207490

Romantik Hotel Walk'sches Haus
Marktplatz 7,
76356 Weingarten
www.walksches-haus.de
+49 (0)7244-7037-0

Zum Goldenen Anker
Hauptstraße 18-20,
76344 Eggenstein-Leopoldshafen
www.hotel-anker-eggenstein.de
+49 (0)721-706029

Brauhaus Wallhall
Kübelmarkt 8,
76646 Bruchsal
www.brauhaus-wallhall-bruchsal.de
+49 (0)7251 7213 0

Gasthaus zur Krone
Marktplatz 6,
76356 Weingarten
www.krone-weingarten.de
+49 (0)7244-947 380

Hotel Ritter
Au in den Buchen 73,
76646 Bruchsal-Büchenau
www.ritterbruchsal.de
+49 (0)7257 88-0

Organization:

Michael Bruns

Karlsruhe Nano Micro Facility (KNMF)



Cooperative Research Centre 1176 (SFB 1176)



Karlsruhe Institute of Technology (KIT)

Eggenstein-Leopoldshafen, Germany



Lutz Käselitz

Thermo Fisher Scientific

Dreieich, Germany



Registration:

The XPS workshop is free of charge, but space is limited. So, register today!

Please register online at

thermofisher.com/xps-workshop until June 15th, 2016

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