

## Acknowledgements

**Thermo**  
SCIENTIFIC



Bundesministerium  
für Bildung  
und Forschung

## Contact

Please send your registration and request to:  
**TEM-APT@mpie.de**

More information about the institute  
**www.mpie.de**

**We look forward to greeting you in Düsseldorf!**

### Local Organizers

Paraskevas Kontis  
Thorsten Meiners  
Zirong Peng  
Yasmin Ahmed Salem  
Siyuan Zhang

### Advisory Board

Gerhard Dehm  
Baptiste Gault  
Dierk Raabe  
Christina Scheu

**Opening Symposium for  
Advanced S/TEM and APT Facilities**

**5 - 6 November 2018**



**Max-Planck-Institut für Eisenforschung GmbH**

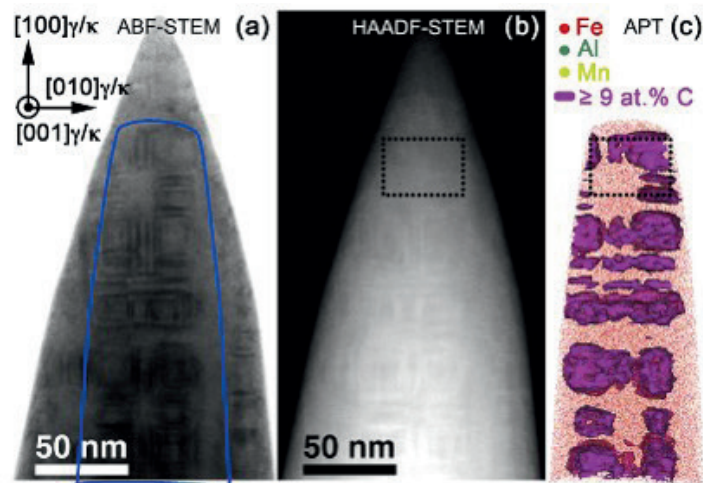


The Max-Planck-Institut für Eisenforschung GmbH (MPIE) is happy to announce the opening symposium for advanced (S)TEM and APT facilities, scheduled on 5<sup>th</sup> – 6<sup>th</sup> November 2018.

We are pleased to celebrate this inauguration by a stimulating scientific colloquium with renowned experts and friends from all over the world.

Topics of the symposium will include:

- Development of advanced APT and (S)TEM techniques
- New horizons in correlative (S)TEM and APT
- Application to catalysis and energy materials
- Interface science



C. H. Liebscher et al. Phys. Rev. Materials 2, 023804 (2018)

8:15 - 9:00	<b>Registration</b>
9:00 - 9:05	<b>Welcome Words</b> Gerhard Dehm, MPIE
9:05 - 9:15	<b>Welcome Words</b> Susanne Schneider-Salomon, NRW-Ministerium für Kultur und Wissenschaft
9:15 - 10:00	<b>Spherical and chromatic aberration corrected TEM: state-of-the-art and future</b> Joachim Mayer, Ernst Ruska-Centre
10:00 - 10:45	<b>Developments in FEM since 1935 from the 2018 MPIE perspective</b> Leigh Stephenson, MPIE
10:45 - 11:15	Coffee break
11:15 - 12:00	<b>High precision and in situ TEM studies of strain induced effects on catalytic activity and electrical properties</b> Eva Olsson, Chalmers University
12:00 - 12:45	<b>Atomic-scale characterisation of catalyst materials by APT</b> Tong Li, Ruhr-Universität Bochum
12:45 - 14:00	Lunch break
14:00 - 14:45	<b>The role of interface complexions on processing ceramic matrix nanocomposites</b> Wayne D. Kaplan, Technion-Israel
14:45 - 15:30	<b>Revealing solute grain boundary specificity through cross-correlative precession electron diffraction - APT</b> Gregory B. Thompson, University of Alabama
15:30 - 16:00	Coffee break
16:00 - 17:30	<b>Lab tour</b>
18:30	Dinner

9:15 - 10:00	<b>Balancing spatial, energy and momentum resolutions in STEM-EELS</b> Quentin Ramasse, EPSRC National Research Facility for Advanced Electron Microscopy
10:00 - 10:45	<b>Application of correlative microscopy for investigating defects in chalcogenide materials</b> Oana Cojocaru-Mirédin, RWTH Aachen University
10:45 - 11:15	Coffee break
11:15 - 12:00	<b>Synergies in correlating aberration-corrected STEM with APT</b> Christian Liebscher, MPIE
12:00 - 12:45	<b>Opportunities offered by the serial and/or in situ combination of APT and (S)TEM</b> Williams Lefebvre, GPM, CNRS, Université et INSA de Rouen
12:45 - 14:00	Lunch break
14:00 - 14:45	<b>Retrieving atomic structure from TEM data: a combined effort of high-end instrumentation and computation</b> Christoph Koch, Humboldt-Universität zu Berlin
14:45 - 15:30	<b>APT simulations: beyond electrostatics</b> Christian Oberdorfer, Ohio State University
15:30 - 15:40	<b>Concluding remarks</b> Dierk Raabe, MPIE
15:40 - 16:00	Coffee Break
16:00	End