

## Microprobes Division Fachverband Mikrosonden (MI)

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### Overview of Invited Talks and Sessions

(Lecture rooms: HSZ 201, MER 02, and MOL 213; Posters: P4)

#### Invited Tutorial Talks

MI 1.1	Sun	16:00–16:45	HSZ 201	<b>Positrons probing matter: What we learn about lattice defects and electronic structure using positron beams</b> — ●CHRISTOPH HUGENSCHMIDT
MI 1.2	Sun	16:45–17:30	HSZ 201	<b>Theoretical electron and electron-positron momentum densities of transition metals and their compounds in the presence of many-body correlation effects</b> — ●LIVIU CHIONCEL
MI 1.3	Sun	17:30–18:15	HSZ 201	<b>Positron annihilation studies at an electron accelerator: From thin films to bulk samples and 3-D imaging</b> — ●ANDREAS WAGNER

#### Invited Talks of the Joint Symposium "Crystallography in Materials Science" (SYCM)

See SYCM for the full program of the symposium.

SYCM 1.1	Mon	15:00–15:30	HSZ 02	<b>Complexity on Compression: The Crystallography of High-Density Matter</b> — ●MALCOLM McMAHON
SYCM 1.2	Mon	15:30–16:00	HSZ 02	<b>X-Ray Microscopy with Coherent Radiation: Beyond the Spatial Resolution of Conventional X-Ray Microscopy</b> — ●CHRISTIAN G. SCHROER
SYCM 1.3	Mon	16:00–16:30	HSZ 02	<b>Modulated martensite: A scale bridging Lego game for crystallographers and physicists</b> — ●SEBASTIAN FÄHLER
SYCM 1.4	Mon	16:45–17:15	HSZ 02	<b>Switching of magnetic domains reveals evidence for spatially inhomogeneous superconductivity</b> — ●MICHEL KENZELMANN
SYCM 1.5	Mon	17:15–17:45	HSZ 02	<b>The key role of magnetic neutron diffraction in materials science</b> — ●LAURENT C. CHAPON

#### Invited Talks

MI 2.1	Mon	10:00–10:45	MER 02	<b>Positronenstrahl-Mikroanalyse - Möglichkeiten und Herausforderungen</b> — ●TORSTEN E.M. STAAB, MATZ HAAKS, KARL MAIER
MI 3.1	Tue	9:30–10:00	MER 02	<b>In situ transmission electron microscopy studies of one-dimensional materials</b> — ●VADIM MIGUNOV, ZI-AN LI, SPASOVA MARINA, MICHAEL FARLE, RAFAL E. DUNIN-BORKOWSKI
MI 9.1	Thu	9:30–10:00	MER 02	<b>The martensitic transformation in Co-Ni-Al F-SMA</b> — ●JAROMÍR KOPEČEK, KAREL JUREK, MICHAL LANDA, OLEG HECZKO

#### Invited Talks of the Joint Focus Session with Accelerator Physics - Beschleunigerphysik (BE)

MI 7.1	Wed	15:00–15:30	MOL 213	<b>Short-Pulse Operation of Synchrotron Radiation Sources</b> — ●ANKE-SUSANNE MÜLLER
MI 7.2	Wed	15:30–16:00	MOL 213	<b>Progress in White Beam Diffraction Imaging</b> — ●ANDREAS DANILEWSKY

MI 7.3	Wed	16:00–16:30	MOL 213	<b>Short pulses @ SOLEIL: Femto-Slicing and Low-Alpha</b> — ●MARIE LABAT
MI 7.4	Wed	16:30–17:00	MOL 213	<b>Nanomagnets and artificial multiferroics studied with X-ray photoemission electron microscopy</b> — ●FRITHJOF NOLTING

### Invited Talks of the Joint Session with KR

MI 11.1	Thu	15:00–15:30	CHE 184	<b>Crystals: Structure, Properties and Heart of Energy Conversion Devices</b> — ●TILMANN LEISEGANG, JULIANE HANZIG, ERIK MEHNER, MATTHIAS ZSCHORNAK, FALK MEUTZNER, TINA NESTLER, BIANCA STÖRR, CHARAF CHERKOUK, ULRIKE WUNDERWALD, DIRK C. MEYER
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### Sessions

MI 1.1–1.3	Sun	16:00–18:15	HSZ 201	<b>Festkörpercharakterisierung mit Positronen</b>
MI 2.1–2.9	Mon	10:00–13:00	MER 02	<b>Untersuchung von kondensierter Materie mittels Positronen-Annihilation</b>
MI 3.1–3.4	Tue	9:30–11:00	MER 02	<b>Analytical Transmission Electron Microscopy and Atom Probe Tomography</b>
MI 4.1–4.3	Tue	11:15–12:00	MER 02	<b>Scanning Probe Microscopy</b>
MI 5.1–5.3	Wed	9:30–10:45	MER 02	<b>Ion Beam Methods</b>
MI 6.1–6.4	Wed	11:00–12:00	MER 02	<b>X-ray Imaging, Holography and Tomography</b>
MI 7.1–7.5	Wed	15:00–17:15	MOL 213	<b>Synchrotron Radiation (Focus Session with Accelerator Physics)</b>
MI 8.1–8.10	Wed	17:00–19:30	P4	<b>Poster: Microanalysis and Microscopy</b>
MI 9.1–9.5	Thu	9:30–11:00	MER 02	<b>Functional Materials - Analysis with EBSD, X-Ray Kossel Diffraction and Related Methods (MI jointly with KR)</b>
MI 10.1–10.3	Thu	11:00–11:45	CHE 184	<b>Crystallography in Nanoscience (KR jointly with MI)</b>
MI 11.1–11.8	Thu	15:00–17:30	CHE 184	<b>Crystallography in Materials Science (KR jointly with DF, MI)</b>

### Mitgliederversammlung des Fachverbandes Mikrosonden

Montag 18:15 MER 02

- Bericht des Fachverbandsvorsitzenden
- Planung der DPG-Tagung 2015
- Verschiedenes