

Microprobes Division Fachverband Mikrosonden (MI)

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Overview of Invited Talks and Sessions

(lecture rooms MER 02, HSZ 02, and Poster P4)

Invited Talks

MI 1.1	Mon	10:00–10:30	MER 02	Point-group sensitive interpretation of EBSD patterns, and the impact of channeling-in and channeling-out of electrons — ●GERT NOLZE, AIMO WINKELMANN
MI 1.8	Mon	12:15–12:45	MER 02	Microstructural characterization of non-metallic precipitates in silicon crystallization processes for photovoltaic applications — ●SUSANNE RICHTER, MARTINA WERNER, SINA SWATEK, CHRISTIAN HAGENDORF
MI 4.1	Wed	9:30–10:00	MER 02	X-ray Microscopy: Imaging the Chemistry Inside — ●CHRISTIAN G. SCHROER
MI 5.3	Wed	12:00–12:30	MER 02	NanoFrazor Lithography - Revolutionizing nanofabrication — ●ZHENGMIN WU, COLIN RAWLINGS, SIMON BONANNI, TERO KULMALA, HEIKO WOLF, URS DUERIG, ARMIN W. KNOLL, MARTIN SPIESER, PHILIP PAUL, FELIX HOLZNER

Invited talks of the joint symposium **Novel Functionality and Topology-Driven Phenomena in Ferroics and Correlated Electron Systems (SYCE)**

See SYCE for the full program of the symposium.

SYCE 1.1	Mon	15:00–15:30	HSZ 02	Ferroelectric domain walls: from conductors to insulators and back again — ●PETRO MAKSYMOVYCH
SYCE 1.2	Mon	15:30–16:00	HSZ 02	Zoology of skyrmions and the role of magnetic anisotropy in the stability of skyrmions — ●ISTVAN KEZSMARKI, SANDOR BORDACS, JONATHAN WHITE, VLADIMIR TSURKAN, ALOIS LOIDL, PETER MILDE, HIROYUKI NAKAMURA, ANDREY LEONOV
SYCE 1.3	Mon	16:00–16:30	HSZ 02	Magnetic imaging of topological phenomena in ferroic materials — ●WEIDA WU
SYCE 1.4	Mon	17:00–17:30	HSZ 02	Topological skyrmion textures in chiral magnets — ●MARKUS GARST
SYCE 1.5	Mon	17:30–18:00	HSZ 02	Learning through ferroelectric domain dynamics in solidstate synapses — SÖREN BOYN, GWENDAL LECERF, STÉPHANE FUSIL, SYLVAIN SAÏGHI, AGNÈS BARTHÉLÉMY, JULIE GROLLIER, VINCENT GARCIA, ●MANUEL BIBES

Invited talks of the joint symposium **Bioinspired Functional Materials: From Nature's Nanoarchitectures to Nanofabricated Designs (SYBM)**

See SYBM for the full program of the symposium.

SYBM 1.1	Tue	9:30–10:00	HSZ 02	New twists in biological photonics: circular polarisation and beyond. — ●PETE VUKUSIC, LUKE McDONALD, EWAN FINLAYSON
SYBM 1.2	Tue	10:00–10:30	HSZ 02	Bio-inspired materials and structures for technology and architecture — ●THOMAS SPECK
SYBM 1.3	Tue	10:30–11:00	HSZ 02	Cellulose bio-inspired hierarchical structures — ●SILVIA VIGNOLINI

SYBM 1.4	Tue	11:15–11:45	HSZ 02	Strong Flexible Bioenabled Nanocomposites for Sustainable Sensing — ●VLADIMIR TSUKURUK
SYBM 1.5	Tue	11:45–12:15	HSZ 02	3D laser nano-printing of rationally designed materials — ●MARTIN WEGENER

Invited talks of the organized joint symposium Nanostructuring Beyond Conventional Lithography (SYNS)

See SYNS for the full program of the symposium.

SYNS 1.1	Wed	15:00–15:30	HSZ 02	The Limits to Lithography: How Electron-Beams Interact with Materials at the Smallest Length Scales — ●KARL K. BERGGREN
SYNS 1.2	Wed	15:30–16:00	HSZ 02	High precision fabrication for light management at nanoscale — ●SAULIUS JUODKAZIS, ARMANDAS BALCYTIS
SYNS 1.3	Wed	16:00–16:30	HSZ 02	Directed self-assembly of performance materials — ●PAUL NEALEY
SYNS 1.4	Wed	16:45–17:15	HSZ 02	Nanometer accurate topography patterning using thermal Scanning Probe Lithography — ●ARMIN W. KNOLL
SYNS 1.5	Wed	17:15–17:45	HSZ 02	High resolution 3D nanoimprint lithography — ●HARTMUT HILLMER

Sessions

MI 1.1–1.9	Mon	10:00–13:00	MER 02	Analytical Electron Microscopy: SEM and TEM-based Material Analysis
MI 2.1–2.5	Mon	15:00–18:00	HSZ 02	Symposium Novel Functionality and Topology-Driven Phenomena in Ferroics and Correlated Electron Systems (DF with MA, KR, MI, TT and DS)
MI 3.1–3.5	Tue	9:30–12:15	HSZ 02	Symposium Bioinspired Functional Materials: From Nature's Nanoarchitectures to Nanofabricated Designs
MI 4.1–4.6	Wed	9:30–11:30	MER 02	X-Ray Imaging, Holography, Ptychography and Tomography
MI 5.1–5.6	Wed	11:30–13:15	MER 02	Session on Nanostructuring Beyond Conventional Lithography
MI 6.1–6.5	Wed	15:00–17:45	HSZ 02	Symposium Nanostructuring Beyond Conventional Lithography (MI with DS, DF, HL, MM and VA)
MI 7.1–7.14	Wed	18:00–20:00	P4	Poster: Microanalysis and Microscopy
MI 8.1–8.4	Thu	10:00–11:00	MER 02	Scanning Probe Microscopy (SPM)
MI 9.1–9.2	Thu	11:15–11:45	MER 02	Progress of Instrumentation and Methods for the Surface Analysis (PEEM, LEED)
MI 10.1–10.2	Thu	12:00–12:30	MER 02	Positron Annihilation Spectroscopy (PALS)
MI 11	Thu	15:00–16:00	MER 02	Annual General Meeting and Celebration of the 50th Anniversary of the Microprobes Division

Mitgliederversammlung und feierliche Begehung des 50. Jahrestages unseres Fachverbandes Mikrosonden

Donnerstag 15:00–16:00 MER 02

- Bericht des Fachverbandsvorsitzenden
- Planung der DPG-Tagung 2018 in Berlin
- Zukunft des Fachverbandes Mikrosonden
- Diskussion über mögliche Vereinigung thematisch nahestehender Fachverbände
- Abstimmung bzw. Wahl
- Verschiedenes