

Microprobes Division Fachverband Mikrosonden (MI)

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Overview of Invited Talks and Sessions

(Lecture Room H5; Poster B2)

Invited Talks of the Joint Session with MM

MI 1.1	Mon	10:15–10:45	H4	The potential of valence electron energy-loss spectroscopy to probe local optical properties and band structure information in scanning transmission electron microscopy — ●ROLF ERNI
MI 1.2	Mon	10:45–11:15	H4	Application of Electron Energy-Loss Spectroscopy to Study Nanostructures and Interfaces — ●CHRISTINA SCHEU
MI 2.1	Mon	11:45–12:15	H4	Prospects for mapping spins with atomic resolution in TEM — ●JOHAN VERBEECK
MI 2.2	Mon	12:15–12:45	H4	Structural Characterization of nc-Si / SiO_x based quantum superstructures for the solar cell application by aberration-corrected high resolution electron microscopy — ●MARYAM BEIG MOHAMADI, BIRGER BERGHOFF, JOACHIM MAYER

Plenary Talk of the Division MI

MI 3.1	Mon	14:00–14:45	H1	Exploring the Functionality of Advanced Materials through Scanning Transmission Electron Microscopy — ●STEPHEN PENNYCOOK
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Invited Talks

MI 4.1	Mon	15:15–16:00	H5	Advanced IC failure analysis — ●FRANK ALTMANN, MICHÉL SIMON-NAJASEK, JÖRG JATZKOWSKI
MI 5.1	Tue	9:30–10:15	H5	Quantitative Röntgenspektrometrie für die Analyse nanostrukturierter Materialien — ●MATTHIAS MÜLLER, BURKHARD BECKHOFF, PHILIPP HÖNICKE, BEATRIX POLLAKOWSKI, CORNELIA STREECK, RAINER UNTERUMSBERGER

Invited Talks of the Symposium “Thermoelectric and Spincaloric Transport in Nanostructures” (SYTS)

See SYTS for the full program of the symposium.

SYTS 1.1	Wed	9:30–10:00	H1	Transport in Old and New Thermoelectric Materials — ●DAVID SINGH
SYTS 1.2	Wed	10:00–10:30	H1	Binary oxide structures as model systems for thermoelectric transport — ●PETER J. KLAR, CHRISTIAN HEILIGER
SYTS 1.3	Wed	10:30–11:00	H1	Functional oxides films: from single crystals to polycrystalline substrates — ●WILFRID PRELLIER
SYTS 1.4	Wed	11:00–11:30	H1	The Planar Nernst Effect and the Search for Thermal Spin Currents in Ferromagnetic Metals — ●BARRY ZINK
SYTS 1.5	Wed	11:30–12:00	H1	Tunneling magneto thermopower in magnetic tunnel junction nanopillars — NIKLAS LIEBING, SANTIAGO SERRANO-GUISAN, PATRYK KRZYSTECZKO, KARSTEN ROTT, GÜNTER REISS, JÜRGEN LANGER, BERTHOLD OCKER, ●HANS WERNER SCHUMACHER

Invited Talks of the Symposium "Photons in Magnetism" (SYPM)

See SYPM for the full program of the symposium.

SYPM 1.1	Thu	15:00–15:30	H1	Ultrafast emergence of nanoscale ferromagnetism far from equilibrium — ●HERMANN DÜRR
SYPM 1.2	Thu	15:30–16:00	H1	Free-Electron Laser for Ultrafast Measurements in Material Science — ●SVEN REICHE
SYPM 1.3	Thu	16:00–16:30	H1	Nanomagnetism seen by Femtosecond X-rays — ●STEFAN EISEBITT
SYPM 1.4	Thu	16:30–17:00	H1	Ultrashort Radiation Pulses at Storage Rings — ●HOLGER HUCK
SYPM 1.5	Thu	17:00–17:30	H1	Every atom counts - Magnetic properties of supported metal atoms and small alloy clusters — TORBEN BEECK, IVAN BAEV, STEFFEN PALUTKE, KAI CHEN, SÖREN MEYER, KARI JÄNKÄLÄ, MICHAEL MARTINS, ●WILFRIED WURTH

Sessions

MI 1.1–1.3	Mon	10:15–11:30	H4	Topical Session: Using Transmission Electron Microscopy to Unravel the Mysteries of Materials I - Joint Session with MM
MI 2.1–2.4	Mon	11:45–13:15	H4	Topical Session: Using Transmission Electron Microscopy to Unravel the Mysteries of Materials II - Joint Session with MM
MI 3.1–3.1	Mon	14:00–14:45	H1	Plenary Talk Pennycook (PV II)
MI 4.1–4.5	Mon	15:15–17:00	H5	Analytische Elektronenmikroskopie
MI 5.1–5.8	Tue	9:30–12:15	H5	Quantitative Materialanalyse (mit KR)
MI 6.1–6.5	Wed	9:30–10:45	H5	X-ray Imaging, Holography and Tomography
MI 7.1–7.4	Wed	11:00–12:15	H5	Ion Beam Methods
MI 8.1–8.3	Wed	12:30–13:30	H9	Nanostructured Oxide Thermoelectrics - Joint Session with DF related to SYTS
MI 9.1–9.10	Wed	15:00–17:00	Poster B2	Poster: Microanalysis and Microscopy
MI 10.1–10.6	Thu	9:30–11:15	H5	Scanning Probe Microscopy

Mitgliederversammlung des Fachverbandes Mikrosonden

Mittwoch 18:00–19:00 H5

- Bericht des Fachverbandsvorsitzenden
- Planung der DPG-Tagung 2014
- Verschiedenes