

Max Planck Institute for Intelligent Systems



Stuttgart Center for Electron Microscopy – StEM

Heisenbergstrasse 3, D-70569, Stuttgart, Germany

www.is.mpg.de/StEM



StEM Workshop at Ringberg Castle, Lake Tegernsee, Germany

July 11th – July 13th, 2012

Programme

Wednesday, July 11 th , 2012	
12.30	Lunch
14.30 – 14.40	Opening and Welcome Peter A. van Aken
	Chair: Wilfried Sigle
14.40 – 15:20	Fritz Phillipp, StEM <i>The long way to the C_s-Corrector in Electron Microscopy</i>
15:20 – 15:40	Nahid Talebi, StEM <i>Outlooks and progresses in EELS of Plasmonic modes</i>
15:40 – 16:00	Burcu Ögüt, StEM <i>Tomorrow of plasmonics with aberration corrected transmission electron microscopy</i>
16:00	Coffee break
16:30 – 16:50	Eric Detemple, StEM <i>The benefit of C_s-corrected STEM for the study of nickelate superlattices</i>
16:50 – 17:10	Dmitry Tyutyunnikov, StEM <i>Data acquisition for 3D strain mapping</i>
17:10 – 17:30	Cigdem Özsoy, StEM <i>What could be the benefits of C_s correction for electron holography?</i>
18:00	Dinner

Thursday, July 12 th , 2012	
	Chair: Fritz Phillipp
09:00 – 09:40	Masashi Watanabe, Betlehem, USA <i>Atomic resolution chemical analysis towards quantification</i>
09:40 – 10:20	Vesna Srot, StEM <i>Electron tomography and analytical STEM for characterization of composite materials</i>
10:20 – 10:40	Dan Zhou, StEM <i>Delithiation Process Study of LiFePO₄ with Transmission Electron Microscopy</i>
10:40	Coffee break
11:00 – 11:40	Wilfried Sigle, StEM <i>Annular bright-field imaging</i>
11:40 – 12:20	Behnaz Rahmati, StEM <i>Implementation of Vortex Aperture into JEM-ARM 200 F Microscope for performing EMCD Experiments</i>
12:30	Lunch

Thursday, July 12 th , 2012	
	Chair: Vesna Srot
14:00 – 14:40	Robert Pennington, UUlM <i>Quantitative TEM electron holography</i>
14:40 – 15:20	Wouter van den Broek, UUlM <i>Retrieval of the object potential by inverted dynamical scattering</i>
15:20 – 16:00	Christoph Koch, UUlM <i>What's next? – Possible not so distant developments in TEM</i>
16:00	Coffee break
16.30 – 16:50	XiaoKe Mu, StEM <i>Disordered structure characterization: pair distribution function and nano-beam diffraction, the benefits from the new microscopes</i>
16:50 – 17:10	Kepeng Song, StEM <i>Characterization of Interface Structure between Materials used in Solid Oxide Fuel Cells with C_s-corrector TEM</i>
18:00	Dinner

Friday, July 13 th , 2012	
	Chair: Peter van Aken
09:00 – 09:40	Hans-Joachim Kleebe, TUD <i>Ferroelektrika: HRTEM versus Modellierung von Nanostrukturen</i>
09:40 – 10:00	Stefania Hapis, TUD <i>Nanodomänen in Polymer-abgeleiteten Keramiken</i>
10:00 – 10:20	Mathis Müller, TUD <i>Li-F Nachweis in Mg-Al-Spinell</i>
10:20	Coffee break
10:50 – 11:30	BouZid Kedjar, StEM <i>Plasticity of perovskite structures: Advantage of prob and image correction in TEM</i>
11:30 – 12:00	Discussion
12:00 – 12.30	Closing Peter A. van Aken
12:30	Lunch
14:00	Departure

Some more information concerning the workshop

Venue

Schloss Ringberg
Conference Site of the Max Planck Society e. V. (MPG)
Schlosstraße 20
83708 Kreuth

Tel.: +49 (0) 8022-279-0
Fax: +49 (0) 8022-279-259
e-mail: Ringberg@rzg.mpg.de

Conference office
Tel. +49 (0) 8022-279-218

(for more information such as how to get there please have a look at their home page:
<http://www.schloss-ringberg.mpg.de/>)

Talks

Duration of talks: 30 minutes plus 10 minutes discussion (scientists)
 15 minutes plus 5 minutes discussion (PhD-students)

Presentation/Abstract

A beamer will be available. Please have your presentation on USB stick for easy transfer.

Departure

Friday, July 13th, 2012 (after lunch)