

XRM 2010 Program-at-a-Glance

| | | Monday, August 16 | Tuesday, August 17 | Wednesday, August 18 | Thursday, August 19 | Friday, August 20 | | |
|--|-------|--|---|---|--|---|---|----------|
| Welcome Reception—Sunday, August 15, 17:00-19:00, at the Sheraton Hotel and Towers | 7:30 | Registration | Registration | Registration | | | | |
| | 8:15 | Opening and Welcome: Eric Isaacs ◊ | | | | | | |
| | 8:30 | Mo1: X-ray Facilities, Instruments, and Optics I ◊ Chair: David Attwood KAZUTO YAMAUCHI: Sub-10-nm Focusing of Hard X-rays Using Mirrors ANDERS HOLMBERG: Towards 10-nm Zone-Plate Fabrication Takahisa Koyama: Development of Multilayer Laue Lenses Hanfei Yan: Toward One-Nanometer Hard X-Ray Microscopy Using MLLS | Tu1: X-ray Microscopy Methods I ◊ Chair: Janos Kirz AMANDA PETFORD-LONG: Electron Microscopy of Nanomaterials Jian Wang: 3D Chemical and Elemental Imaging by STXM David Paterson: Ultrafast X-ray Fluorescence Microscopy Andreas Scherz: MAD Holography | We1: X-ray Facilities, Instruments, and Optics III ◊ Chair: Peiping Zhu WEILUN CHAO: Ultra-High-Resolution Soft X-ray Zone Plate Microscopy HONGJIE XU: X-ray Microscopy Beamlines at the SSRF Andrea Somogyi: The Nanoscopium Nanoprobe at Synchrotron Soleil Burkhard Kaulich: Nano and Life Sciences with TwinMic at Elettra | Th1: Biological and Biomedical Science ◊ Chair: Chris Jacobsen JOSE CARRASCOSA: X-ray and Electron Microscopy of Vaccinia Virus TANIA PAUNESCU: Elemental Mapping of Contrast Agents for Medical Imaging Gang Li: 3D Structures of the Oldest Found Embryo Fossils Johannes Schittny: Sub-micron Particles in Unstained Lung Parenchyma | Fr1: Panel Discussion: Nanometer Resolution in X-ray Microscopy ◊ Chair: Qun Shen Panelists: Christian David Chris Jacobsen Jörg Maser Hidekazu Mimura Keith Nugent Ian Robinson Christian Schroer Gayle Woloschak | | |
| | 10:20 | Exhibits & Refreshments ‡ | Exhibits & Refreshments ‡ | Exhibits & Refreshments ‡ | Exhibits & Refreshments ‡ | Refreshments ‡ | | |
| | 10:45 | Mo1 continues ◊ Chair: Mau-Tsu Tang CHRISTIAN KNOEHEL: Correlative X-ray Tomography and Light Microscopy Christian David: Fabrication of Diffractive Optics for X-ray Sources Timm Weitkamp: X-ray Talbot Interferometry at ESRF | Tu1 continues ◊ Chair: Murray Gibson JOHANNA NELSON: X-ray Diffraction Microscopy of Frozen Hydrated Yeast Klaus Giewekemeyer: Lensless Biological Imaging with Waveguides Fucai Zhang: Wavefront Modulation Coherent Diffractive Imaging | We2: X-ray Microscopy Methods III ◊ Chair: Günter Schmahl BO HUANG: Pushing the Resolution Limit of Visible Light Microscopy Lukas Helfen: Holographic and Fluorescence Laminography for 3D Imaging | Presentations for XRM 2012 ◊ Vote for XRM 2012 | President: Alan Michette WMI and Student award presentations XRM 2012 winner XRM2010 closeout | | |
| | 11:40 | | | | | | | |
| | 12:00 | Lunch | Lunch | Lunch | Lunch | Box lunch pickup for tour | | |
| | 12:30 | | | | | Buses depart for APS tour | | |
| | 13:00 | | | | | | | |
| | 13:30 | Mo2: X-ray Facilities, Instruments, and Optics II ◊ Chair: Hans Hertz STEFAN REHBEIN: Zone Plate Development at H-Z Berlin Rajmund Mokso: Following Dynamic Processes by X-ray Tomography Ivan Vartaniants: Coherence and CDI Experiments at FLASH | Tu2: X-ray Microscopy Methods II ◊ Chair: Keith Nugent ANDREAS MENZEL: Scanning Small-Angle X-ray Scattering of Bio Tissues Christian Schroer: Scanning Microscopy with Diffraction Contrast Christian Holzner: Scanning Hard X-ray Phase Contrast X-ray Microscopy | We3a: X-ray Microscopy Meth. IV § Chair: Hyun-Joon Shin Luca Gregoratti: Chemical Imaging of Nanodevices with SPEM Gema Martinez-Criado: Luminescence Imaging of Nano-LEDs Paul Fenter: Imaging Interfacial Topography and Reactivity Marco Stampanoni: Hard X-ray Phase-Contrast Nano-tomography Chris Ryan: Maia X-ray Detector Array at the Australian Synchrotron | We3b: Magnetism and Magnetic Materials Chair: Christoph Quitmann MI-YOUNG IM: Imaging Spin States in Magnetic Nanostructures OLEG SHPYRKO: Probing Magnetic Domain Structure via CDI Hendrik Ohldag: Crystal and Magnetic Domains in Co/NiO(001) Bartel Van Waeyenberge: Vortex and Vortex Core Dynamics | Th2a: Biological and Biomedical Science II § Chair: Sadao Aoki JIM MCNALLY: 3D Cellular Fine Structure Resolved by TXM Keith Nugent: Cryo Transmission X-ray Imaging of the Malaria Parasite Enju Lima: Cryogenic Diffraction Microscopy for Biological Samples | Th2b: Materials and Condensed Matter Chair: Maya Kiskinova EMIELE SMIT: In situ Nanoscale Chemical Imaging of Catalysts Wilson Chiu: Elemental Mapping of Solid Oxide Fuel Cells by TXM Yu-chen Chen: Dealloying and Coarsening of Nanoporous Gold | APS Tour |
| | 15:00 | Exhibits & Refreshments ‡ | Exhibits & Refreshments ‡ | Exhibits & Refreshments ‡ | Exhibits & Refreshments ‡ | | | |
| | 15:30 | Mo2 continues ◊ Chair: Jean Susini SASA BAJT: Multilayer-Based Optics for High-Brightness X-ray Sources Fernando Brizuela: Full-Field Microscope for EUVL Masks Michael Bertillon: Laboratory Soft X-ray Tomography of Cryo-Fixated Cells | Tu2 continues ◊ Chair: Alan Michette ANDREW PEELE: Fresnel Coherent Diffractive Imaging Yukio Takahashi: High-Resolution Hard X-ray Diffraction Microscopy Stephan Hruszkewycz: Coherent Bragg Diffraction via <100 nm Beams | We4a: Emerging Fields § Chair: Graeme Morrison Ziyu Wu: Low-Dose Single-Step Method for Phase-Contrast Imaging ANTON BARTY: Femtosecond X-ray Imaging Using Free Electron Lasers Marine Cotte: Cultural Heritage Science at the ESRF Akira Saito: One-Nanometer-Scale Elemental Analysis by SR-STM | We4b: Environ., Earth, and Space ¶ Chair: Adam Hitchcock ANNA BUTTERWORTH: STXM Analysis of Impact Tracks in Stardust Aerogel PAULO MONTEIRO: High-Resolution Imaging of Construction Materials Joy Andrews: Hard X-ray Imaging of Mercury Accumulation in Plants Antonio Lanzirotti: Fluorescence Tomography in Geo/Cosmo/Bio-chem | Th2a continues § Chair: Gerd Schneider PETER LAY: Application of XRM to Human Disease and Therapies Martina Ralle: Subcellular XFM of Metal-Induced Pathologies Lydia Finney: Visualizing a Role for Zinc in Stem Cell Differentiation | Th2b continues ¶ Chair: Michael Feser ROSS HARDER: Coherent Diffraction Imaging of Strain on the Nanoscale Jon Tischler: Submicron-Resolution 3D Polychromatic Microdiffraction Pice Chen: Imaging and Structural Analysis of Ferroelectric Domains | |
| | 17:30 | Poster Session 1 setup ‡ (all day) | Exhibits & Poster Session 1 ‡ (to 19:30) | Poster Session 2 setup (all day) ‡ | Exhibits & Poster Session 2 ‡ (to 19:30) | Buses depart to Chicago | | |
| | 18:30 | | | Banquet (to 22:00) – Navy Pier | | Tour buses return | | |

- Location Key: ◊ Chicago Ballrooms IX and X
‡ Chicago Ballrooms VI and VII
§ Chicago Ballroom VIII
¶ Chicago Ballroom X