

Day 1 – Wednesday, May 18, 2016

bakery basket and coffee at 8:00 am (provided by BSU)

Time	Speaker
8.15-8.30 am	Welcome and Introduction to ASCI, the PREMIER Network, and the new Springer online journal "Advanced Structural and Chemical Imaging" (ASCI) – Nigel D. Browning, PNNL; Darryl Butt & Yaqiao Wu, Boise State University
Session 1 – Materials Sciences – Session Chair: Darryl Butt	
8.30-9.00	“Comparing ptychography, electron holography and phase plate techniques for quantitative phase imaging”– Arthur Blackburn, University of Victoria
9.00-9.30	“Three-Dimensional Characterization of Shale Porosity” – Patrick Price, Boise State University
9.30-10.00	“Characterization of radiation induced microstructure in UO ₂ ” – Lingfeng He, Idaho National Laboratory
10.00-10.30	Coffee Break (provided by BSU & PREMIER Network)
10.30-11.00	“Mapping plasmons, structure, and composition in complex bimetallic nanostructures” – Emilie Ringe, Rice University
11.00-11.30	“Application of electron microscopy in semiconductor memory industry” – Tyler Lenzi & Du Li, Micron
11.30-12.00	“In-situ materials characterization at high spatial resolution: A journey through liquids, low temperature and beam damage” – Robert Klie, University of Illinois – Chicago
12.00-1.00pm	Lunch Break (provided by our sponsors)
Session 2 – Life Sciences – Session Chair: Michael Knoblauch	
1.00-1.30	“Multimodal and multiscale optical, electron, X-ray and ion bioimaging to enhance biofuel feedstocks” - James Evans, Pacific Northwest National Laboratory
1.30-2.00	“Ultra-high resolution three dimensional imaging using 4pi-smsn throughout whole cells” – Fang Huang, Purdue University
2.00-2.30	“Electron cryomicroscopy and force spectroscopy data suggest anti-pili antibodies may have a direct role in inhibiting diarrheal disease” – Esther Bullitt, Boston School of Medicine
2.30-3.00	“CT scans of single cells” – Carolyn Larabell, University of California – San Francisco
3.00-3.30	Coffee Break (provided by BSU & PREMIER Network)

3.30-4.00	“Structure and dynamics of the tuberculosis ribosome revealed by cryo-EM” – Junjie Zhang, Texas A&M
4.00-4.30	“Strategies for cryo correlative light and electron microscopy (cryo-CLEM)” – Cheri Hampton, Emory University
4.30-5.00	“Polymerization based regulation of a metabolic enzyme: the structure and evolution of CTP synthase filaments – Justin Kollman, University of Washington - Seattle
6.00	DINNER ON OWN

Day 2 – Thursday, May 19, 2016

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Session 3 – Materials Sciences – Session Chair: Yaqiao Wu	
8.30-9.00	“Nanobeam diffraction scanning in transmission electron microscopes” – Edgar Rauch, SIMAP Laboratory and Nanomegas
9.00-9.30	“Applications of bicrystallography” – Peter Moeck, Portland State University
9.30-10.00	“Atom probe tomography of fuels” – Assel Aitkaliyeva, Idaho National Laboratory
10.00-10.30	Coffee Break (provided by BSU & PREMIER Network)
10.30-11.00	“Nanoscale chemical imaging by photo-induced force microscopy” – Sung Park, Molecular Vista
11.00-11.30	“Image simulations of complex oxides – a guide to better experiments” – Thomas Vogt, University of South Carolina
11.30-12.00	“ <i>In situ</i> investigations of organic inorganic photovoltaics” – Jeffrey Aguiar, Idaho National Laboratory
12.00-1.00pm	Lunch Break (<u>provided by our sponsors</u>)
1.00-1.30	“Compressive sensing in microscopy: a (P)review” – Andrew Stevens, Pacific Northwest National Laboratory
1.30-2.00	“In Pursuit of Atomic-Scale Tomography” – Tom Kelly, CAMECA
2.00-3.45	Session 4 – Poster Session
3.45-4.00	Coffee Break (provided by BSU & PREMIER Network)
4.00-5.00	Business meeting of the PREMIER network
6.00	DINNER ON OWN

Day 3 – Friday, May 20, 2016

bakery basket and coffee at 8:00 am (provided by BSU)

Session 5 – Life Sciences – Session Chair: Andreas Holzenburg	
8.30-9.00 am	“Atomic Force, Optical, and Super-Resolution Microscopy of DNA-Based Nanostructures” – Elton Graugnard, Boise State University
9.00-9.30	“Recording optimal, near-atomic-resolution images of cryogenic specimens on a “sub-optimal” transmission electron microscope” – David Belnap, University of Utah
9.30-10.00	“A force-feedback high-speed atomic force microscope (HSAFM) and its application to biological systems” – Byung I. Kim, Boise State University
10.00-10.30	“Applications of computer programming in image acquisition, structural analysis, and machine vision” – Shixin Wang, Micron
10.30-11.00	Closing remarks - <i>Nigel D. Browning, PNNL; Darryl Butt & Yaqiao Wu, Boise State University</i>
11.00	Poster winners announced
Lunch on own (Box lunch for speakers) MICRON TOURS – LIMITED SPACE – SIGN UP REQUIRED	

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