3rd Annual Washington DC Focused Ion Beam Users Group Meeting/Workshop

February 25th & 26th, 2010

Advanced Measurement Laboratory National Institute of Standards and Technology, Gaithersburg, MD

Thursday, February 25th, 2010		
8:30 AM	Breakfast & Coffee	
9:00 AM	Welcome	
Morning		
9:10 AM	Stephan Kleindiek , Kleindiek Nanotechnik Accelerating sample throughput: The Shuttle Platform for Sample Preparation	
9:40 AM	Lynne Gignac , IBM Precision, double XTEM sample preparation of site specific Si nanowires	
10:00 AM	Tom Zega , NRL FIB-SEM as an enabling tool for investigating the chemistry of the early solar system and thermodynamics of ancient stars	
10:20 AM	Brian Schuster , ARL A Methodology for In-Situ SEM Tension and Compression Testing of FIB Machined Specimens	
10:40 AM	Coffee Break	
11:00 AM	Jing Fu, NIH/NCI Ion abrasion microscopy of biological cells, promises and challenges	
11:20 AM	Michael Marko, Wadsworth Center Cryo-FIB preparation for TEM cryo-tomography	
11:40 AM	Bin Ming , NIST Nano-fabrication, nanometer-scale imaging and metrology with the Orion Scanning Helium Ion Microscope	
Lunch		
12:00 PM	Lunch	
Poster Session		
1:00 PM	Michael Anderson, NIST STEM based structural characterization of layered incommensurate nanocomposites Rocco Cerchiara, Fischione	

Sample Preparation of Single and Multi-Phase Materials for Aberration-Corrected

TEM/STEM

Bradley Degregorio, NRL

Applications and Advantages of FIB for the Study of Geological and Extraterrestrial Samples

Gavin Murphy, NIH/NCI

Ion Abrasion SEM: New methodological advances and applications to tissue imaging **Doug Wei**, Harvard University/Carl Zeiss SMT

3D Imaging of mouse brain using NVision 40 FIB and Amira 3D reconstruction software Mark Twigg, NRL

Simulation and analysis of electron channeling contrast images (ECCI) recorded using an FEI 600 dual beam FIB equipped with an Oxford Nordlys EBSD detector

John Carpenter, EDAX

Focused Ion Beams for 3D and Surface Preparation in EBSD and EDS

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Afternoon		
2:20 PM	Alex Buxbaum, FEI New DualBeam Software for 3D Characterization	
2:40 PM	Matthew Weschler, JHT Instruments HyperFIB! - Why Everyone Will Have One in 5 Years	
3:00 PM	Cheryl Hartfield, Omniprobe Sample repositioning solutions for in situ preparation and analysis	
3:20 PM	Coffee Break	
3:40 PM	Scott Sitzman, Oxford Instruments 3D EBSD in the FIB-SEM	
4:00 PM	Jerry Lehman, Carl Zeiss SMT 3D Reconstruction and Nano Patterning on a Crossbeam Workstation	
4:20 PM	Mike Marsh, Visualization Sciences Group Advanced 3D Visualization and Analysis for FIB data with Avizo	
4:40 PM	Wrap-up of Day 1	
5:00 PM	Happy Hour at Dogfish Head (across the street from NIST main gate)	
Friday, February 26th, 2010		
8:30 AM	Breakfast & Coffee	

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9:00 AM	Lab tours Tours will include NIST FIBs, Titan AEM, Helium Ion Microscope, CNST NanoFab Facility
10:30 AM	Coffee Bream
10:50 AM	Group Discussions 3D visualization of FIB data sets: Tools & Needs
12:00 PM	Adjourn

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