

| Time  | Speaker  |
|---|--|
| 8.15-9.00 am  | Food and Coffee ( <i>Provided by Protochips</i> )  |
| 9.00-9.30   | Thank you: Dave Johnson<br>Welcome: Jim Hutchison<br>Overview: Kurt Langworthy   |
| <b><i>Analytical Challenges of Small Volumes</i></b>          |  |
| 9.30-10.00  | <b><i>Discerning More than Moore</i></b><br>Kevin Johnson, Intel   |
| 10.00-10.30   | <b><i>Nanoscale Chemical Analysis with Photo-induced Force Microscopy</i></b><br>Sung Park, Molecular Vista, Inc.  |
| 10.30-11.00   | <b><i>Coffee</i></b> ( <i>Provided by Carl Zeiss Microscopy</i> )  |
| 11:00-11.30   | <b><i>Practical Phase Contrast Imaging in Scanning Transmission Electron Microscopy</i></b><br>Colin Ophus, National Center for Electron Microscopy              |
| 11.30-12.00   | <b><i>SIMS on the helium ion microscope: A powerful tool for high-resolution high-sensitivity nano-analytics</i></b> : Soeren Eyhusen, Carl Zeiss Microscopy LLC |
| 12.00-1.30  | <b>Lunch</b> ( <i>Provided by Bruker</i> )   |
| <b><i>In Situ Studies of Transformations in Materials</i></b> |  |
| 1.30-2.00   | <b><i>Crystallographic image processing and supporting geometric Akaike information criteria</i></b> :<br>Peter Moeck, Portland State University                 |
| 2.00-2.30   | <b><i>Protochips™ in-situ Electron Microscopy Solutions: Capabilities and Applications</i></b> :<br>Jordan Moering, Protochips                                   |
| 2.30-3.00   | <b><i>Time resolved imaging of phase transformations in materials</i></b><br>Geoffrey H. Campbell, LLNL  |
| 3.00-3.30   | <b><i>Coffee</i></b> ( <i>Provided by CAMCOR</i> )   |
| 3.30-4.00   | <b><i>Imaging Dynamic Chemical Processes by Operando (Scanning) Transmission Electron Microscopy</i></b> :<br>Nigel Browning, Pacific Northwest National Lab     |
| 4.00-6:00   | <b><i>Poster Session</i></b>   |
| <b>Finger food and drinks</b> ( <i>Provided by Intel</i> )    |  |

## Day 2 – Tuesday, May 23, 2017

*Bakery basket and coffee at 8:00 am*

### **Materials and Method Development**

|                              |   |
|------------------------------|---|
| 8.00-8.30                    | <b>Food and coffee</b> (Provided by FEI)  |
| 8.30-9.00                    | <b>Quantitative Aspects of 3-D Chemical Imaging in the Scanning Transmission Electron Microscope:</b><br>Andy Herzing, NIST             |
| 9.00-9.30                    | <b>Active Control of Near-Field Distribution in Plasmonic Nanorods:</b><br>Emilie Ringe, Rice University                                |
| 9.30-10.00                   | <b>Analysis of interfacial line defects in materials</b><br>Doug Medlin, Sandia National Lab  |
| 10.00-10.30                  | <b>High-Accuracy Compositional Imaging for Trace Elements and Beam Sensitive Materials:</b><br>John Donovan, University of Oregon       |
| 10.30-11.00                  | <b>Coffee</b> (Provided by CAMCOR)  |
| <b>Life Sciences Session</b> |   |
| 11.00-11.30                  | <b>Large-Scale Data with Nanoscale Insight:</b><br>Gabriella Kiss, Thermo Fisher Scientific   |
| 11.30-12.00                  | <b>Correlative Light and Electron Microscopy: An Ever Changing Field:</b><br>Doug Keene, Shriners Children's Hospital                   |
| 12.00-12.30                  | <b>Correlative light and EM methods for 3D FIB:</b><br>Claudia Lopez, Oregon Health Sciences University                                 |
| 12.30-1.30                   | <b>Lunch</b> (Provided by ONAMI)  |
| 1.30-2.00                    | <b>Sharpening cryo-electron tomography of viruses using direct electron detectors:</b><br>James Williams, University of Washington      |
| 2.00-2.30                    | <b>Cryo-EM of a Flexible Protein Helix: Human Inosine-5'-Monophosphate Dehydrogenase:</b><br>Matt Johnson, University of Washington     |
| 2.30-3.00                    | <b>Cryo-Electron Microscopy of Small Macromolecular Machines at Near-Atomic Resolution:</b><br>Andrew Borst, University of Washington   |
| 3:00-3:30                    | <b>Quantum processes at energy transfer interfaces in photosystem II:</b><br>Andreas Holzenburg, University of Texas, Rio Grande Valley |
| 3:30-5:00                    | <b>Meeting Wrap-up and Desert</b> (provided by CAMCOR)  |