

Nano-Structures and Nano-Properties

2012 Meeting of the Michigan Microscopy & Microanalysis Society

Co-Chairs: Vickie Kimler (WSU CIMER/Psychiatry) and Takeshi Sakamoto (WSU Physics and Astronomy)

Secretary: Hazel-Ann Hosein (MSU Engineering); Treasurer: Carol Heckman (BGSU Biology)

8:30-8:55	Light Refreshments/Posters Set-Up
8:55-9:00	Opening Remarks (Morning Session Chair): Vickie Kimler
9:00-10:00	Ali Dhinojwala , The University of Akron; Akron, OH: Bio-Inspired Adhesives and Coatings (AM KEYNOTE)
10:00-10:25	Laurie Krupa and Matt Nowell, EDAX, Regional Sales; Chicago, IL: Analysis of Lightweight Structural Materials for Automotive and Aerospace Applications using EBSD
10:25-10:40	Vickie A. Kimler, Wayne State University: Structural and Functional Organization of Cardiac Lipid Droplets.
10:40-10:55	Takeshi Sakamoto, Wayne State University: Structural Analysis of F-actin bundles with difference types of actin bundling proteins: TRIOBP and Fascin
10:55-11:10	Michael Behr, The Dow Chemical Company: Atomic-Scale Investigations of Carbon Nanotube Growth
11:10-11:25	Patrick Aderhold, Michigan State University: Characterization of Dye-Sensitized Solar Cell Components by Focused Ion Beam Milling and Scanning Electron Microscopy
11:25-11:40	Clifford S. Todd, The Dow Chemical Company: Re-Sampling of SEM-EDS Element Maps to Characterize the Length-Scale of Elemental Heterogeneity
11:40-12:00	Poster and Exhibitors' Session
12:00-13:00	Lunch (with posters open for viewing)
13:00-13:40	Poster Session and Exhibitors' Session, continued.
13:40-13:45	Opening Remarks (Afternoon Session Chair): Takeshi Sakamoto
13:45-14:45	Daniela Nicastro , Brandeis University: Cryo-Electron Tomography of Macromolecular Machines, Organelles and Cells (PM KEYNOTE)
14:45-15:00	Emily E. Martinez, Central Michigan University: Structural Senescence of Striated Muscle in <i>Drosophila melanogaster</i> and <i>Schistocerca americana</i>
15:00-15:15	Ellen Keene, The Dow Chemical Company: Characterizing Poly-Urethane Foam Cellular Structure by Image Analysis
15:15-15:40	Mark Kelsey, Bruker Scientific: Chicago, IL: Micro X-Ray Fluorescence vs. Electron Probe Microanalysis
15:40-15:50	Closing Remarks and Recap, award for best student presentation: Carol Heckman
15:50-16:20	Business Meeting