



Talks Presented at M & M 2015 From the Midwest

The talks presented at this meeting were selected from more than 130 talks given at M&M 2015 from the Midwest

presented by

**Midwest Microscopy and Microanalysis Society
(M³S)**

A local affiliate of the Microscopy Society of America and the Microanalysis Society

Friday, November 20th, 2015

**Baxter Healthcare Corporate
Headquarters, Deerfield, IL**
(Directions and map below)

**Please RSVP by Wednesday, November
18th**

**Email your contact information to:
Karl Hagglund
(secretary@midwestmicroscopy.org)**

Onsite Registration Fee:

**Meeting Free for M³S members, \$20.00 for non-members, \$5.00 for students
(Fee includes M³S membership for 2015)**

We welcome vendor participation. Tables are available for \$100. Please contact Steve Nagy (snagy@gatan.com) for details.

8:00 - 9:00AM - Registration

9:00 - 9:15AM - Welcome and Opening Remarks

9:15 - 10:00AM - Microscopic Techniques for Sterility Assurance Support in the Medical Products Industry

Jason R. Mantei, Baxter Healthcare Corporation, Particles and Interfaces-Microscopy, Round Lake, IL

10:00 - 10:45AM - Advantages of Using Low Voltage for Elemental Mapping by Energy Dispersive X-Ray Spectroscopy in Pharmaceutical Systems

Joseph Neilly, John Roth, AbbVie Inc. NCE Analytical Chemistry, North Chicago, IL

10:45 - 11:30AM - Break

11:30 - 12:15PM - Cryo-Planing of Frozen Hydrated Samples by Triple Ion Gun Milling (CryoTIGM™)

Irene Y.-T. Chang, Derk Joester, Materials Science and Engineering, Northwestern University, Evanston, IL

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12:15 - 12:30PM - MMMS Business Meeting

12:30 - 1:45PM - Lunch

1:45 - 2:30PM - *In-situ materials characterization at high spatial resolution: A journey through liquids, low temperature and beam damage*

Robert Klie, Department of Physics, University of Illinois at Chicago, Chicago IL 60607

2:30 - 3:15PM - *Can Na⁺ Transport Faster Than Li⁺ inside Zn-Sb Intermetallic Nanomaterials?*

Anmin Nie, Department of Mechanical Engineering-Engineering Mechanics, Michigan Technological University, Houghton, MI and Department of Physics, University of Illinois at Chicago, Chicago, IL

3:15 - 3:30PM Break

3:30 - 4:15PM - *Nanoscale In-Situ Electron Microscopy of Particles in Liquid*

Tolou Shokuhfar, Department of Bioengineering, University of Illinois at Chicago, Chicago, IL

Directions to Baxter Corporate Headquarters: 1 Baxter Parkway, Deerfield Illinois, 60015

From South (O'Hare Airport): I-294 (Tri State Tollway) north to the merge with I-94 (west) towards Milwaukee. North on I-94 to Lake Cook Road exit. Turn left (west) to first light, Saunders Road. Turn right on Saunders to Baxter Parkway. Turn right on Baxter Parkway. Keep to the right. Follow the special event parking signs in the garage. See Deerfield Campus Map and proceed to "Cafeteria, Auditorium, Reception" building on ground level.

From South (Edens): North to the merge with I-94 (west) towards Milwaukee on Edens Spur. Exit on Deerfield Road. Turn left (west), then take left on Saunders Road. Turn left on Baxter Parkway. Keep to the right. Follow the special event parking signs in the garage. See Deerfield Campus Map and proceed to "Cafeteria, Auditorium, Reception" building on ground level.

From North (Milwaukee): From I-94 east, going south towards Chicago exit at Lake Cook Road exit. Turn right (west) to first light, Saunders Road. Turn right on Saunders to Baxter Parkway. Turn right on Baxter Parkway. Keep to the right. Follow the special event parking signs in the garage. See Deerfield Campus Map and proceed to "Cafeteria, Auditorium, Reception" building on ground level

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