



"Novel Applications of Electron Microscopy in Hard And Soft Materials"

March 25, 2022 8am-4pm

Abbott Auditorium, Pancoe Life Sciences Building
Northwestern University, Evanston Campus
Evanston, IL

REGISTER NOW!

Directions and Parking Information can be found [here](#).

Program Schedule

8:00 – 9:00 AM	Registration, Continental Breakfast and Coffee
9:00 – 9:05 AM	Welcome and Opening Remarks
9:05 – 9:50 AM	Prof. Reza Shahbazian-Yassar, University of Illinois at Chicago <i>In-Situ TEM Studies of High Entropy Alloy Nanoparticles Under Gas Environment</i>
9:50 - 10:15 AM	Joanna Korpanty, PhD candidate, Northwestern University <i>Studying Stimuli-Responsive Polymeric Nanomaterials via Liquid-Cell Transmission Electron Microscopy</i>
10:15 – 10:30 AM	Break & Visit with Vendors
10:30 - 11:15 AM	Jotham Austin, II, PhD, Facility Director, Research Assistant Professor, University of Chicago <i>Cytoneme Ultrastructure Revealed Through Advanced Cryopreservation And Volumetric Imaging Of The Early Embryo</i>
11:15 - 11:40 AM	Bibash Sapkota, PhD candidate, Klie Group, University of Illinois at Chicago <i>Determination Of the Thermal Expansion Coefficient And the Local Temperature Measurements Of Si Nanoparticles With Nanometer Resolution</i>
11:40 AM – 1:10 PM	Lunch & Visit with Vendors
1:10 – 1:55 PM	Dr. Yuzi Liu, Staff Scientist, Argonne National Lab <i>Correlative Electron and Synchrotron X-ray Microscopy for Energy Materials</i>
1:55 – 2:20 PM	Francisco Lagunas, PhD candidate, Klie Group, University of Illinois at Chicago <i>In-situ Cooling Study of Two-Dimensional Transitional Metal Carbides with Organic Surface Terminations</i>
2:20 – 2:35 PM	Coffee/tea Break
2:35 – 3:00 PM	M3S Business Meeting
3:00 – 3:30 PM	Dr. Kunmo Koo, Research Associate, Northwestern University <i>To Seal Or Not To Seal?: Resolution And Contrast At The Closed-cell Gas Microscopy And Open-cell Environmental Microscopy</i>
3:30 – 3:55 PM	Abhijit Phakatkar, PhD candidate, University of Illinois <i>In-situ Graphene Liquid Cell Scanning Transmission Electron Microscopy Studies Investigating Antibacterial Mechanisms of Multimetallic Nanoparticles</i>
3:55 – 4:05 PM	Closing Remarks

*Optional tour of NUANCE's facilities in the Technological Institute, AB-Wing