Midwest Microscopy and Microanalysis Spring Meeting

"Advances in Multi-Dimensional Electron Microscopy"

March 24, 2023
8:00 am - 4:00 pm

McCormick Auditorium, Norris Center
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 & Coffee
9:00 – 9:05 AM	**Vinayak P. Dravid & Chris Gilpin** Welcome and Opening Remarks
9:05 – 9:50 AM	**Prof. Jian-Min Zuo, Ph.D., University of Illinois Urbana-Champaign** *Renaissance in Electron Diffraction and Imaging of Materials Structural Properties* *** Virutal Presentation**
9:50 - 10:15 AM	**Matthew Tamadoni Saray, Ph.D. candidate, University of Illinois Chicago** *Investigating Metal Salt Decomposition Using In-Situ S/TEM*
10:15 – 10:30 AM	Break & Visit with Vendors
10:30 - 11:15 AM	**Haihua Liu, Ph.D., Electron Microscopy Assistant Scientist, Argonne National Laboratory** *Nanoscale plasmons study by ultrafast electron microscopy*
11:15 - 11:45 AM	**Akshay Murthy, Ph.D., Fermilab** *Identifying imperfections in superconducting qubits through TEM hardware advancements*
11:45 – 12:10 PM	**Yukun Liu, Ph.D. candidate, Northwestern University** *Probing the "order" in complexity: Entropy-engineered Thermoelectric Materials*
12:10 – 12:30 PM	**M3S Business Meeting**
12:30 – 2:00 PM	**Lunch & Visit with Vendors**
2:00 – 2:45 PM	**Roberto dos Reis, Ph.D., Research Assistant Professor, Northwestern University** *Challenges and opportunities in machine learning for 4D-STEM data interpretation*
2:45 – 3:10 PM	**Francisco Lagunas, Ph.D. candidate, University of Illinois Chicago** *In-Situ Cooling STEM Studies of Low Dimension Materials*
3:10 – 3:40 PM	**Yingjie Yang, Ph.D., University of Illinois Chicago** *Benchmarking of in-situ electrochemistry and heating liquid-cell instrumentation and its potential for battery research*
3:40 – 3:50 PM	**Closing Remarks**
	*Optional tour of NU*ANCE*'s facilities in the Technological Institute, AB-Wing*

M3S Annual Membership Fee:
FREE for students / $20 for academic/government/corporate