

# Protochips on the TEM Creating the Connected Lab:

## Nanoscale Discoveries That Solve Real World Problems

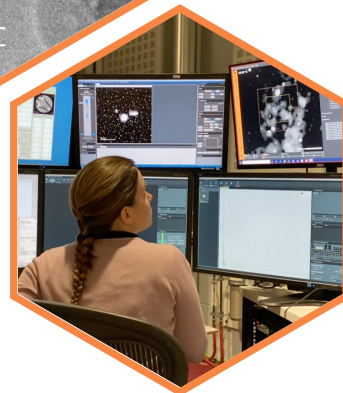
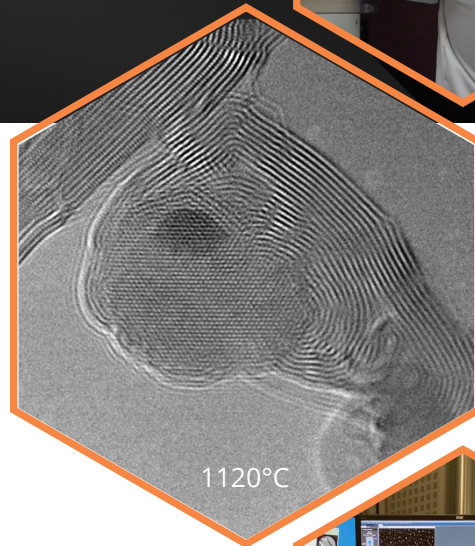
Friday, September 23, 2022 @ 11:00 am Central Time

University of Oklahoma

OU Host: Dr. Andrew S. Elwood Madden

Samuel Roberts Noble Microscopy Laboratory (SRNML)

*\*Lunch will be provided*



### Agenda

#### ➤ Intro to AXON Synchronicity, AXON Dose, and AXON Studio - Powerful Acquisition and Data Management (11am)

- ❖ AXON Synchronicity: Machine vision drift correction
  - Standard TEM imaging and *in situ* automation
- ❖ AXON Dose: Quantitative measurement of electron dose
  - Measure, analyze, report dose on your sample
- ❖ AXON Studio: Find your breakthrough with metadata in all images
  - Managing data outside the TEM lab
  - Intro to *in situ* solutions for nanoscale analysis:

*\*Lunch provided for in-person attendees*

#### ➤ Intro to *in situ* solutions for nanoscale analysis (12pm)

- ❖ Atmosphere - Gas Environments (with optional RGA)
  - Catalyst Synthesis for Fuel Cell Applications
  - Catalyst Poisoning, Single Atom Catalysis, Fischer-Tropsch
- ❖ Poseidon Select - Liquid Imaging, Heating, and Electrochemistry
  - Studying SARS-CoV-2 in the TEM
  - Core-Shell Catalyst Degradation and Corrosion
  - Lithium Batteries and Fuel Cells
- ❖ Fusion Select - Heating and Electrical
  - Device miniaturization (MOSFETS)
  - Chemoresistive Sensors
  - Graphene

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