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## NRF Open House: Wednesday 11/6

Join us in person for the NRF annual open house. The event usually is held on Nanoday (10-9) but was rescheduled to November 6th due to the hurricane closure. We will be hosting in-person (and some online-hybrid) opportunities to see what we do here at the NRF and showcase some tool capabilities. Participants at each event will earn an entry to the microscopy raffle giveaway. Visit each activity and you can earn 6 entries into the raffle.

Check out the event [schedule](#), and feel free to drop in for some fun on Wednesday November 6th. Share the details with your friends and send them over to see what cool toys we get to play with here. Preregistration is not required for the in person activities or youtube demos, but is required for the K-12 oriented activities in Gathertown.

### Links to the Hybrid Demonstrations

(watch each and enter each codeword for a raffle entry)

[PFIB DEMO Live Stream: 10-12](#)

[THEMIS TEM Live Stream: 1-3](#)

[VERSA CT Live Stream: 3-5](#)

[Click Here to enter the raffle for a SWAG Bag \(activity specific codeword required\)](#)

NIMET nanoday activities have been rescheduled for November 21st during which the NRF [annual image competition](#) winner will be announced. Image competition submissions will be accepted through 8am on November 21st. You can register for the NIMET Nanoday activities [HERE](#).

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## TEM Talk Here at NRF

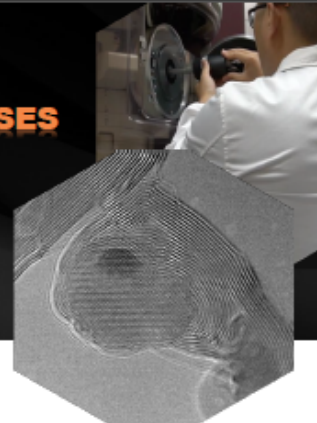
The talk below is scheduled to take place on Thursday November 14th in the NRF conference room (115) at 3pm. Click the image or scan the QR code to register to attend the talk.

## PROTOCHIPS

### IN SITU TEM: STUDYING DYNAMIC PROCESSES AT THE NANOSCALE

Thursday, November 14<sup>th</sup>, 2024  
3:00 pm to 4:00 pm

In-Person at the Conference Room  
University of Florida



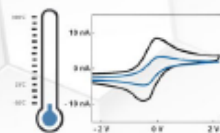
#### Exploring applications of In-Situ TEM.

Join us for a talk on the innovative use of in situ TEM studying dynamic processes at the nanoscale. Discover how this technology enables researchers to fine-tune materials for higher energy capacity, operating lifetimes, and more efficient performance by understanding how environment affects a materials atomic scale foundation.

- **Energy Storage/Analysis:** Visualize nanoscale processes in solid state and liquid electrochemistry applications such as lithium, sodium, calcium, zinc, and other batteries during cycling. Understand degradation, SEI layer formation, and dendrite pathways in real-time to enhance battery safety, efficiency, and lifespan.
- **Materials Science:** Observe the growth of nanoparticles, polymers, colloids, and nanowires at the nanoscale. Track morphological evolution to develop precise mechanistic models and optimize material properties, chemistry and nanoscience.
- **Catalysis, Hydrogen and Fuel Cell:** Study key reactions in electrocatalysis like OER, CO<sub>2</sub>RR, and HER at the nanoscale. Recent publications in gas phase studies that enable high pressure and high temperature analysis of catalysts and supports, solar cells and fuel cells. Monitor changes in crystallinity, morphology, particle size, and chemical dispersion to guide future developments.

From sample prep to publication, combining tools for a complete solution for in-situ TEM.

**INTRODUCING: TRITON AX**  
Heating & Cooling Liquid Electrochemical System for TEM



Protochips  
Creating the Connected Lab

REGISTRATION LINK AND QR CODE:  
<https://forms.office.com/r/2QqEqPgFnh>



 **Protochips**  
Creating the Connected Lab

## Virtual PVD Course

The Micro/Nano Fabrication Center (MNFC) of the Princeton Materials Institute (PMI) is excited to offer with Angstrom Engineering a one-day short course on Physical Vapor Deposition, on Tuesday, November 12th, both in-person at Princeton University, as well as remotely. Please see the link below for details and registration.

<https://www.eventbrite.com/e/physical-vapor-deposition-pvd-of-thin-films-tickets-1048204416627>

**Upcoming RSC Events:**

- [NRF Open House](#) - Wednesday November 6th - Online and In-Person
- NRF closed - AHA Only - Monday November 11
- [Protochips Seminar](#) - Thursday November 14th - 3pm - NRF 115
- Game Night - NRF 115 - Thursday November 14th at **5pm** [RSVP](#)
- NIMET Nanoday at the NRF - Thursday November 21
- **NRF closed - AHA Only - Thursday Nov 28 and Friday Nov 29.**
- User Advisory Committee Meeting - [ZOOM](#) + NRF115 - Thursday 12/5 at Noon
- NRF Cleanroom Closure: December 16 - January 1
- Holiday Break - NRF Closed (NO AHA) - December 25 - January 1

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- [Ongoing](#): New publication? Data collected at the RSC? [Click to tell us!](#)
  - Still writing? Check out our new easy acknowledgement [templates](#).
- [Ongoing](#): **Submit Photos for the Annual Nano Day Image Contest: You can submit your image for the 2024 Contest [HERE](#)**

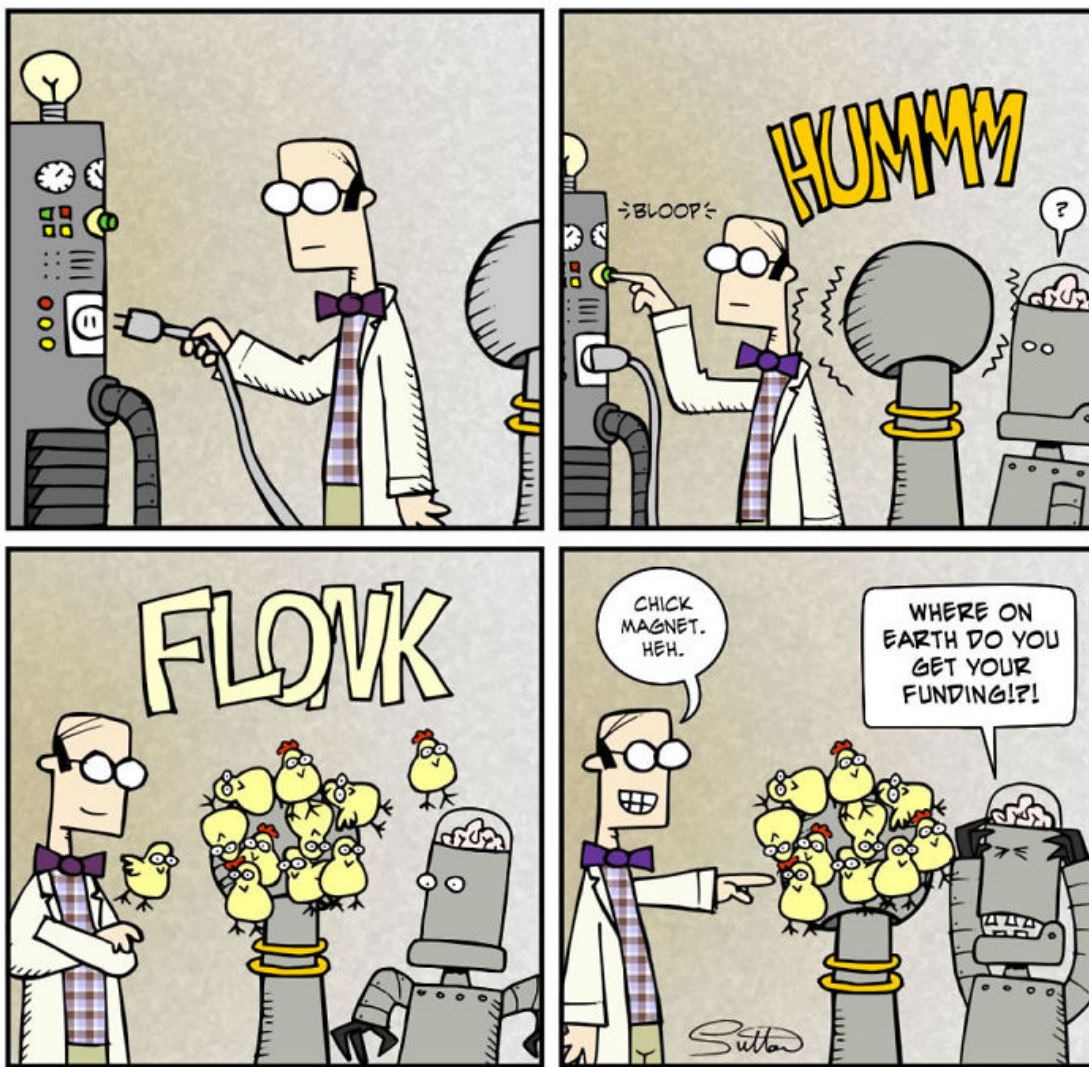
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## Safety Side Note:



Don't forget we have the *Anonymous Tip* submission link on our webpage. The link is found on our [contact](#) page when logged into the user panel. Community members can use this link as a way to anonymously submit concerns or safety violations that staff should be aware of. We would love to chat with you directly about any concerns you have, but if you are uncomfortable reporting something directly, please consider using this resource to ensure your concerns are heard.

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