Nov 17, 2023

arolina

Symposium

McKimmon Center

1101 Gorman St.

Raleigh, NC 27606

S cience

Invited Speakers

Building a Semiconductor Workforce Shyam Aravamudhan (JSNN)

> Data Science in Ag -Accelerating Translational Agricultural Research Kirtley Amos (NCSU)

Oral Sessions

 Nine 15 min student oral presentations

Student Poster

• Poster size:

no bigger than 48 in by 36 in

- Submit abstracts through website
 - Only first 32 posters will be judged



Prizes

- AIF Best Paper Award
- RTNN Best Oral Presentation
- 1st 2nd and 3rd Place Posters
- NNF Student Poster
- ASM Hans Stadelmaier Poster Award
- Mike Rigsbee Photo Contest

AVS

- Vendor Raffle
- CSS Raffle

AIF

Registration

(includes snacks and lunch)

- Professional\$20
- Student\$10
- Vendors..contact Chris Winkler

RSVP by Nov 7th Register at: go.ncsu.edu/css2023





arolina Science Symposium

Held annually during the Carolina Science Symposium and is awarded through the ASM Carolinas Central Chapter. No more than one submission per person.

You must be a registered attendee of the Carolina Science Symposium to be eligible and present at the presentation of the award to win.

This is a student competition available to both undergraduates and graduates.

Mike Rigsbee Photo Competition 2023



go.ncsu.edu/rigsbee photocomp

Image Requirements

- Photo. Neosing te hicosope by tolo Some Both 1024 X 1024 maximum resolution with no more than 96ppi (<5MB)
 - JPEG format
 - Black & White Images (Images may be SEM, FIB, CT Scan, Optical Microscope or TEM)
 - All images *must* have a scale bar







ASYLUM RESEARCH Photo Competition 2023

1.07 -

0.68

-2.43

This photo competition provides the opportunity to display scientific data acquired during research that has artistic appeal. There will be a prize for first place as determined by a representative of Asylum Research.





Nanoparticles

go.ncsu.edu/asylum

Image Requirements

- 2048 X 2048 maximum resolution with no more than 96ppi (<5MB)
- JPEG format
- All images must have a scale bar
- No more than one submission per person.
- You must be a registered attendee of the Carolina Science Symposium to be eligible and present at the presentation of the award to win.
- This is a student competition available to both undergraduates and graduates.



Competition registration



Workshops & Demos 2023



register

Nov 16 Demo

OXFORD

An introduction to EBSD & New Developments in Indexing & Data Processing Nov 15 Lecture

Introduction to the EBSD technique: standard approaches to EBSD analysis, pattern indexing, and data processing. New developments in pattern indexing using pattern matching.

Tips and tricks for AFM topography imaging

Nov 15

The hands-on workshop will present the practical operation basics of AC (tapping) and Contact mode imaging on AIF's Origin+ AFM. This includes force regimes to operate in, probe selection per sample type, mode imaging parameter optimization, probe preservation during engagement & imaging, different sample types, imaging artifacts to recognize (and avoid), and sample preparation tips.

Tips for FIB Preparation of In Situ Samples

ROBERTO GARCIA | Analytical Instrumentation Facility at North Carolina State University

Preparation of High-Quality Samples for MEMS-Based In-Situ Electrical and Electro-Thermal (S)TEM Experiments

DR. VESNA SROT | Max Planck Institute for Solid State Research

https://register.gotowebinar.com/register/5138938561142548054 VProtochips

Dec 6



Jan 26 **2024**

Introduction to Focused Ion beam (FIB)

Morning lecture followed by afternoon FIB lift-out demo for TEM analysis.

go.ncsu.edu/fib

