

# ISNN



Joint School of Nanoscience and Nanoengineering

# **Fall 2025 Seminar Series**

### Friday, August 29th, 11 AM

**Prof. Oscar Avalos-Ovando** 

Department of Nanoscience

Joint School of Nanoscience and Nanoengineering "What's so Hot About Electrons in Plasmonic Nanomaterials?"

### Friday, September 5th, 11 AM

**Prof. Sampath Gamage** 

Department of Nanoscience

Joint School of Nanoscience and Nanoengineering "Quantum Materials: Exploring Nanoscale Phenomena for Efficient and Sustainable Device Applications"

### Friday, September 12th, 11 AM

**Prof. Maren Roman** 

Department of Sustainable Biomaterials, Virginia Tech "Cellulose Nanocrystals: Promising bio-based Nanoparticles for Drug Delivery and Biomedical Applications"

Host: Prof. Jeff Alston

# Friday, September 19th, 11 AM

Prof. Marina Sokolsky-Papkov

Center for Nanotechnology in Drug Delivery
Eshelman School of Pharmacy, UNC Chapel Hill
"Nanomedicine Strategies to overcome Treatment Challenges in
Pediatric Tumors"

Host: Prof. Kristen Dellinger

# Friday, September 26th, 11 AM

Prof. Shana Lee McAlexander & Prof. Richard Sheridan

Department of Mechanical Engineering & Materials Science, Duke University "Building Interdisciplinary Capacity and Community for AI + Materials Research" Host: Ms. Nancy Brown

# Friday, October 3rd, 11 AM

Prof. Rosario Porras-Aguilar

Department of Physics and Optical Science, UNC Charlotte "Shaping Light with Liquid Crystals: Smart Materials for Bioimaging" Host: Prof. Tetyana Ignatova

# Fall 2025 Seminar Series (continued)

### Friday, October 17th, 11 AM

**Prof. Erik Santiso** 

Department of Chemical and Biomolecular Engineering North Carolina State University "Understanding the Nucleation of Molecular Crystals" Host: Prof. Yirong Mo

### Friday, October 24th, 11 AM

**Prof. Junhong Chen** 

Pritzker School of Molecular Engineering, The University of Chicago "Molecular Engineering of Field-Effect Transistor Water Sensors based on 2D Nanomaterials"

Host: Prof. Tetyana Ignatova

### Friday, October 31st, 11 AM

Prof. Gaurav Arya

Department of Mechanical Engineering and Materials Science, Duke University "In-silico Design of Nanoparticle and DNA Assemblies with Emerging Architectures and Functions"

Host: Prof. Hemali Rathnayake

# Friday, November 7th, 11 AM

Prof. Orlando Argüello-Miranda

Department of Plant and Microbial Biology, North Carolina State University "Generative Al-Driven Cell Biology"

Host: Prof. Sam Oliveira

### Friday, November 14th, 11 AM

**Prof. Gagan Deep** 

Wake Forest University School of Medicine "Extracellular Vesicles as Biomarkers: Unlocking the Potential of Liquid Biopsy" Host: Prof. Kristen Dellinger

# Friday, November 21st, 11 AM

**Prof. Nathan Crook** 

Department of Chemical and Biomolecular Engineering
North Carolina State University
"Engineering Probiotic Yeast for Synthesis of Vitamins and Drugs
in the Mammalian Gut"
Host: Prof. Sam Oliveira

