

# Oklahoma State University

# School of Chemical Engineering

## Spring 2021 ChE Graduate Seminar Series

**When: 3:00 P.M - 4:15 P.M.**

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**Where: 107 Engineering North**

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**01.26.2021**

### **Changjie Cai**

*University of Oklahoma*

Aerosol Studies: Portable Aerosol Instrument Development, Numerical Modeling, and Machine Learning Application

**02.02.2021**

### **Evren Ozbayoglu**

*The University of Tulsa*

Cuttings Transport – Mechanistic Models vs Data Driven Models

**02.09.2021**

### **Maryam Raeeszadeh-Sarmazdeh**

*University of Nevada, Reno*

Engineering protein scaffolds targeting metalloproteinases

**02.16.2021**

### **Yuyin Xi**

*NIST Center for Neutron Research*

The development of a new class of colloidal gels with bicontinuous structures via nanoparticle self-assembly in a binary solvent.

**02.23.2021**

### **Connie Wu**

*Harvard University*

The identification and therapeutic targeting of disease-associated biomolecules have been bolstered by considerable advances in nanotechnologies and analytical tools

**03.02.2021**

### **Eitan Barlaz**

*University of Illinois at Urbana-Champaign*

Plasma Enhanced Chemical Vapor Deposition for Coating Applications

**03.09.2021**

### **Tan C. Nguyen**

*New Mexico Institute of Mining and Technology*

Modeling of Mud Motor Performance Under Downhole Conditions

**03.16.2021**

### **Kathleen Weigandt**

*NIST Center for Neutron Research*

RheoSANS as a Probe for Soft Materials

**03.23.2021**

### **Ning Fang**

*Georgia State University*

Single Molecule Imaging of Chemical Processes on Nanocatalysts

**03.30.2021**

### **John Irvine**

*University of St. Andrews, UK*

Understanding and controlling the processes occurring at electrode/electrolyte interface are key factors in optimizing fuel cells and electrolyzers.

**04.20.2021**

### **Meenesh R. Singh**

*University of Illinois, Chicago*

Integrating Continuous-flow Microfluidic Crystallizer with Multiscale Simulation to Obtain Fundamental Insights into Nucleation and Growth of Crystalline Materials

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**04.27.2021**



**Jerry Y. S. Lin**

*Arizona State University*

Mechanism of Molecular Separation by Graphene Oxide Membranes and Its Implications on 2D Membranes

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**04.30.2021**



**Zheyu Jiang**

*Arizona State University*

Advancing Future-Generation Separation Technologies via Process Systems Engineering Innovations: Multicomponent Distillation and Beyond