

**Oklahoma State University**  
**School of Chemical Engineering**

**Spring 2023 Graduate Seminar Series**  
**4:30pm-5:20pm 305 Engineering North**

Preliminaries	JANUARY <b>17</b>
<b>Marianthi Ierapetritou, Ph.D.</b> Chair of Chemical and Biomolecular Engineering, University of Delaware “Data Revolution and Process Systems Engineering: Challenges and Opportunities.”	JANUARY <b>24</b>
<b>David Rumschitzki, Ph.D.</b> The City College of New York “How tumor populations change in time: New mathematical model, Zebrafish melanoma experiments and a new potential mechanism for long-term tumor dormancy and recurrence.”	FEBRUARY <b>7</b>
<b>Sina Kaabipor, Ph.D.</b> Chemical Engineer “Rheological properties of green solvent nanowire-based conductive inks and their printing using the direct writing method.”	FEBRUARY <b>14</b>
<b>Zeyuan Song, Ph.D.</b> Boston University “Data-driven random walk approach for solving water flow dynamics in soil systems.”	
<b>Anya Zornes, Ph.D.</b> Chemical Engineering, Oklahoma State University “Structure-reactivity relationships in solid acid catalysts: multiple active sites in zeolite catalysts.”	
<b>Peng Bai, Ph.D.</b> Chemical Engineering, University of Massachusetts Assistant Professor “Computational studies of reactivity and adsorption in nonporous materials.”	FEBRUARY <b>21</b>
<b>Steven McIntosh, Ph.D.</b> Lehigh University Professor and Department Chair of Chemical and Biomolecular Engineering “Enzyme driven synthesis of high-performance heterostructured photocatalysts.”	FEBRUARY <b>28</b>
<b>Kelsey A. Stoerzinger, Ph.D.</b> Oregon State University Associate Professor of Chemical Engineering and Materials Science “Electrocatalytic reduction on nitrate: insight from manipulating adsorbate affinity.”	MARCH <b>07</b>

Spring Break	MARCH <b>14</b>
Ngoc Bui, Ph.D. University of Oklahoma Assistant Professor <b>“Materials and methods for selective ion capture from water.”</b>	MARCH <b>21</b>
Jong Suk Lee, Ph.D. Sogang University Associate Professor, Department of Chemical and Biomolecular Engineering <b>“Microporous membranes for gas separations: from material design to scalable fabrication.”</b>	MARCH <b>28</b>
Yet-Ming Chiang, Ph.D. MIT Professor of Materials Science and Engineering <b>“Electrochemical pathways to Large Scale Energy Storage and Decarbonization of Industrial Processes.”</b>	APRIL <b>04</b>
Jennifer Sinclair Cutris, Ph.D. University of California, Davis Distinguished Professor, Department of Chemical Engineering <b>“Flow behavior of aspherical particles.”</b>	APRIL <b>11</b>
Christopher Johnson, Ph.D. Argonne National Lab Senior Chemist/Argonne; Distinguished Fellow <b>“Light-mediated Energy to Accelerate Li-ion Battery Electrochemical Reactions.”</b>	APRIL <b>18</b>
Joshua Gallaway, Ph.D. Northeastern University DiPietro Assistant Professor, Chemical Engineering <b>“Heterogeneity In All-Solid-State Li Batteries.”</b>	APRIL <b>25</b>