

# MATERIALS ENGINEERING SEMINAR SERIES

SPRING 2023

Neil Armstrong Hall of Engineering (ARMS) 1010  
Join us for refreshments at 3:30pm — Seminar begins at 3:45pm

Date	Visitor
Friday January 27	<b>Engineered Energetic Materials</b> Steven Son Alfred J. McAllister Professor, Mechanical Engineering, Purdue University
Friday February 3	<b>Materials Design for Thermal and Environmental Barrier Coatings for Next-Generation Alloy and Composites</b> David Poerschke Assistant Professor, Chemical Engineering & Materials Science, University of Minnesota
Monday February 13	<b>Atom Probe Tomography for 3D Atomic-Scale Characterization</b> Camtec
Friday February 17	<b>Simulations of Microstructural Evolution at the Mesoscale</b> Peter Voorhees Chair and Frank C. Engelhart Professor, Materials Science and Engineering, Northwestern University
Friday March 3	<b>Development of Sustainable and Multi-functional Materials for Automotive Applications</b> Patrick Blanchard Technical Leader, Advanced Polymer Systems, Ford Motor Company
Friday March 10	<b>Local to Meso-scale Order in Ferroelectrics Characterized by Aberration-Corrected Scanning Transmission Electron Microscopy</b> Elizabeth Dickey Head and Teddy and Wilton Hawkins Distinguished Professor Materials Science and Engineering, Carnegie Mellon University
Friday March 24	<b>Elastocapillary Adhesion</b> Katharine Jensen Assistant Professor, Physics, Williams College
Friday March 31	<b>Rheological Considerations for “Successful” Printing in Polymer Extrusion Additive Manufacturing</b> Michael Bortner Associate Professor, Chemical Engineering, Virginia Tech
Friday April 7	<b>Additive Microfabrication of Multilayer Laminated Magnetic Materials for High Frequency Power Conversion</b> Mark Allen Alfred Fidler Moore Prof., Electrical & Systems Engineering, University of Pennsylvania
Friday April 14	<b>Harnessing the Kirkendall Effect: Compositional, Thermal and Geometrical Influences</b> Ashley Paz y Puente Assistant Professor, Materials Engineering, University of Cincinnati
Friday April 21	<b>Free Energy Contributions to Template-Assisted Self-Assembly of Nanoparticles</b> Shafiq Mehraeen Assistant Professor, Chemical Engineering, University of Illinois Chicago
Friday April 28	<b>Nature-Inspired ‘Smart’ Materials: Ability to Move, Morph, Protect and Heal</b> Srinivasan Raghavan Professor, Chemical and Biomolecular Engineering, University of Maryland