



COLLEGE OF ENGINEERING

Fall 2013

New Faculty Research Seminar Series

Noon – 1 p.m., Prescott 225

<u>Date</u>	<u>Speaker</u>	<u>Seminar Title</u>	<u>General Research Area</u>
October 17 Thursday	Dr. Matthew Yarnold CEE	<i>Structural Identification & Structural Health Monitoring of Bridge Structures</i>	Structural Identification and Structural Health Monitoring
October 22 Tuesday	Dr. Steve Anton ME	<i>Multifunctional and Multi-Source Energy Harvesting: The Development of Autonomous Low-Power Electronics</i>	Smart Materials, Vibrations, Energy Harvesting, Structural Health Monitoring, Robotics-based STEM Education
October 31 Thursday	Dr. Jeffrey Rice CHE	<i>Development of Novel Protein and Biological Engineering Techniques</i>	Protein and Biological Engineering
November 4 Monday	Dr. Tania Datta CEE	<i>Enhanced Biological Phosphorous Removal in Aerated-anoxic Activated Sludge Systems</i>	Biological Wastewater Treatment, Environmental Microbiology, Resource Recovery from Organic Waste, Role of Microbes in Aquatic Ecosystems
November 12 Tuesday	Dr. Jennifer Pascal CHE	<i>Multiscale Modeling of Drug Delivery to Tumors Enhanced by Applied Electrical Fields</i>	Mathematical/Computational Modeling of Biological Systems with Applied Electrical Fields
November 25 Monday	Dr. Awni Qasaimeh MET	<i>Digital Human Modeling for Ergonomic Assessment of Patient Lifting in Hospitals</i>	Electronics manufacturing, Lean Manufacturing, Ergonomics in Healthcare
December 3 Tuesday	Dr. Mohamed Mahmoud ECE	<i>Efficient Security Protocols for Wireless Networks</i>	Network Security and Privacy Preservation
December 5 Thursday	Dr. Indranil Bhattacharya ECE	<i>Design and Modeling of Very-high Efficiency Multijunction Solar Cells and Future Research Direction</i>	High-efficiency Solar Cells, Battery (Li-air/ion, Al-air/ion), Semiconductor Electronics, Photonics and Optics, Electromagnetics, Power Electronics, Medical Electronics