

## MECHANICAL & AEROSPACE ENGINEERING COLLOQUIUM SERIES

Spring 2013 Program

Wednesdays, 3:30pm, Fiber Optics Auditorium

*Refreshments, 3:15 pm*

*Social Hour, 4:30 pm*

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| January 30  | <b>Richard Pelz Memorial Lecture</b><br><i>Multiscale Considerations in DNS Studies of Multiphase Flows</i><br>Professor Gretar Tryggvason, University of Notre Dame |
| February 13 | <i>Surface Folding and Other Plastic Flow Phenomena in Metal Sliding and Cutting</i><br>Dr. Narayan Sundaram, Purdue University                                      |
| February 20 | <i>Dean's Distinguished Lecture</i><br>Lt. General Charles Croom, VP of Cyber Security Solutions, Lockheed Martin  |
| February 27 | <i>Compatibility, Hysteresis and the Direct Conversion of Heat to Electricity</i><br>Professor Richard James, University of Minnesota                                |
| March 6     | <i>High <math>k</math> Nanodielectric Composites for Energy Storage Applications</i><br>Professor Jackie Li, City College of New York                                |
| March 13    | <i>Next Generation of Nuclear Power - Small Modular Reactors</i><br>Brian Reilly, Senior VP, Bechtel Nuclear Power   |
| March 27    | <i>Combustion and Nanotechnology</i><br>Professor Xiaolin Zheng, Stanford University   |
| April 10    | <i>Hydrodynamics of Left-Ventricular Filling and Diastolic Dysfunction</i><br>Professor Pavlos Vlachos, Virginia Tech  |
| April 17    | <i>Hall-Petch Analysis from a Combined Mechanics and Materials Viewpoint</i><br>Professor Ron Armstrong, University of Maryland                                      |
| May 1       | <i>Dynamics of Complex Fluids: Swimming, Propulsion, and Instabilities</i><br>Professor Paulo Arratia, University of Pennsylvania                                    |