

University of Pittsburgh
Mechanical Engineering Graduate Seminar Series
SpringTerm (2064)

Time: 3:00 – 4:00 PM

Location: 1175 Benedum Hall /Kresge Hall (Unless Noted Otherwise)

(2006)

- Jan. 20 **“Thermoacoustics and the Development of the Thermoacoustic Pulse Combustion Engine”**
Dr. Nathan Weiland, National Energy Technology Lab, U.S. Department of Energy
- Jan. 27 **“On the Simulation of Reactive Flows in Fluidized Beds”**
Dr. Francine Battaglia, Mechanical Engineering, Iowa State University
- Feb. 3 **“Bodies Interacting With and Through Fluids”**
Dr. Michael Shelley, Applied Math Lab, Courant Institute, New York University
- Feb. 10 **“The Engineers Response to Homeland Security and in Meeting Nuclear Codes & Standards Needs”**
Kenneth Balkey, Consulting Engineer, Westinghouse Electric Company
- Feb. 17 **“Combustion Exothermicity Effects on the Dynamics of Reacting Flows”**
Dr. Marios C. Soteriou, Combustion Dynamics Group Leader,
United Technologies Research Center (UTRC)
- Feb. 24 **“A Fluid/Solid Model for Predicting Slender Body Deflection in a Moving Fluid”**
Dr. Joseph Mollendorf, Mechanical and Aerospace Engineering, University of Buffalo
- Mar. 17 **“A Multi-Scale Transparent Indenter Measurement (TIM) Method for Material Property Evaluation”**
Dr. Bruce Kang, Mechanical and Aerospace Engineering, West Virginia University
- Mar. 24 **“Biological Responses of the Musculoskeletal System to Mechanical Forces. The Good, the Bad and the Ugly”**
Dr. Gwendolyn Sowa, Department of Physical Medicine & Rehabilitation, UPMC
- Mar. 31 **“Long Term Performance Stability of Solid Oxide Fuel Cell Materials Sets Under Practical Operating Conditions Relevant to the DOE/NETL Solid State Energy Conversion Alliance (SECA)”**
(722 Beh)
Dr. Lane Wilson, Office of Project Management, Gas Power Projects Division,
National Energy Technology Laboratory (NETL)
- Apr. 7 **“Concepts for the Application of Biomechanical Modeling in Computer Assisted Orthopaedic Surgery”**
Dr. Tony Petrella, Manager, Computational Biomechanics Group, DePuy Orthopaedics
- Apr. 14 **“Finite Element Solution of Flow Problems with Fluid-Structure Interaction”**
Dr. Rolf Rannacher, Institute of Applied Mathematics, University of Heidelberg