Mechanical Engineering
Distinguished Speaker Series
Spring 2016

January 26
Annalisa Manera, Associate Professor
Nuclear Engineering & Radiological Sciences, University of Michigan
“Experimental and Computational Thermal-Hydraulics”
An overview of research on experimental and computational thermal-hydraulics for nuclear applications

February 9
David Waller, Mechanical Engineer
Ball Aerospace & Technologies Corporation
“MOIRE: Membrane Optical Imager Real-Time Exploration”
Developing future high-resolution orbital telescopes to provide real-time video and images from 22,000 miles above the Earth

February 23
Dan Baker, Professor and Director
Laboratory for Atmospheric & Space Physics, University of Colorado
“Studying Relativistic Particle Acceleration & Loss in our Cosmic Backyard”
Making remarkable discoveries about Earth’s space environment and the Van Allen radiation belt with novel engineered sensors

March 1
Jack Howell, Professor Emeritus
Department of Mechanical Engineering, University of Texas at Austin
“Inverse Methods and Applications of Radiation Heat Transfer”
Inverse methods in radiative heat transfer: from more efficient windows to high performance thermo-photovoltaic devices

March 8
Chris Cadou, Associate Professor
Department of Aerospace Engineering, University of Maryland
“Hybrid Turbine-Solid Oxide Fuel Cells for Aircraft Propulsion and Power”
Enabling long-term autonomous flight by integrating solid oxide fuel cells into aircraft engines for propulsion

March 29
Anthony D. Rollett, Professor
Materials Science and Engineering, Carnegie Mellon University
“Advanced Characterization of Additively Manufactured Materials, including Synchrotron-based 3D X-rays”
Recent advances in high-energy x-ray methods for mapping of 3-D grain structure, lattice strains, and porosity to enhance understanding and optimization of 3D metals printing processes

Tuesdays at 4 p.m. in Brown Building, room W250

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