FLUID MECHANICS SEMINAR SERIES

ENGR298

Winter 2020-21

Tuesdays at 4:30 PM - Seminars are held via Zoom

Jan. 12 "**Affronting Ocean Models: Submesoscale Interactions between Fronts, Instabilities, and Waves"**
Prof. Baylor Fox-Kemper
Department of Earth, Environmental, and Planetary Sciences, Brown University

Jan. 19 **"Machine Learning for Fluid Mechanics"**
Prof. Steven Brunton
Department of Mechanical Engineering, University of Washington

Jan. 26 "**A Quest to Observe the Turbulent Cascade in Real Time"**
Prof. Michael Brenner
School of Engineering and Applied Sciences & Department of Physics, Harvard University

Feb. 2 "**Fluid Mechanic Instability and its Impact on Gas Turbine Combustor Operability"**
Prof. Jacqueline O'Connor
Department of Mechanical Engineering & Director of the Penn State Center for Gas Turbine Research, Education, and Outreach, Penn State University

Feb. 9 "**A Molecular-Level Understanding of Hypersonic Flows"**
Prof. Thomas E. Schwartzentruber
Department of Aerospace Engineering and Mechanics, University of Minnesota

Feb. 16 **"On the Reynolds Number Dependence of Turbulent Flames: The Cascade through the Lens of Power Laws, Surface Density Function, and Fractal Analysis"**
Prof. Fabrizio Bisetti
Department of Aerospace Engineering and Engineering Mechanics, University of Texas at Austin

Feb. 23 "**Revealing Hidden Dimensions in Soft Materials (or How to Play a Chord on a Rheometer)"**
Prof. James Swan
Department of Chemical Engineering, Massachusetts Institute of Technology

Mar. 2 "**Driving Physics of Inverted Flag Flapping"**
Prof. Andres J. Goza
Department of Aerospace Engineering, University of Illinois at Urbana-Champaign

Mar. 9 **"Reactive Transport in Porous Media: Bridging Scales, Data and Physics"**
Prof. Ilenia Battiato
Department of Energy Resources, Stanford University

Mar. 16 **"Ignition by Pressure Pulses"**
Prof. Joseph E. Shepherd
Aeronautics and Mechanical Engineering, California Institute of Technology

For seminar information, please contact Prof. Matthias Ihme at mihme@stanford.edu