

DISTINGUISHED SEMINAR SERIES FALL 2016

Fridays, 3:15 pm (reception @ 4:15 pm) | Sidney & Marian Green Classroom (3550 MEK)



Sept. 13: Marc B. Parlange, Ph.D. (4pm, 210 ASB)

—Note, this is a Tuesday with a different time and location

Dean of Applied Science, Professor of Department of Civil Engineering
University of British Columbia, Canada

West African Savanna Hydrology Under Landscape Transformation. The change to the sensible heat flux is key in driving local convection precipitation patterns. Some possible strategies to mitigate a regional precipitation reduction are offered.



Oct. 21: Christopher D. Rahn, Ph.D.

Professor of Mechanical Engineering, Director, Mechatronics Research Lab, Co-Director, Battery & Energy Storage Technology Center, Pennsylvania State University.

Battery Systems Engineering: Enabling Mobility and Independence from the Grid. Batteries enable mobile and unplugged electronics with applications ranging from cell phones to solar homes. This talk introduces the emerging field of battery systems engineering, a model-based approach to the design of battery powered systems.



Nov. 11: Jiun-Shyan Chen, Ph.D.

William Prager Chair Professor, Structural Engineering Department; Director, Center for Extreme Events Research, University of California San Diego.

Fracture to Damage Multiscale Modeling and Application to Extreme Events Simulation. This talk introduces a micro-crack informed damage model and a meshfree Reproducing Kernel Particle Method (RKPM) for multi-scale modeling of fracture and damage processes in brittle materials. A new accelerated, convergent and stable nodal integration for meshfree computation will be presented and its application to extreme events simulation will be demonstrated.



Dec. 2: Liwei Lin, Ph.D.

Professor of Mechanical Engineering, Co-Director, Berkeley Sensor & Actuator Center
University of California Berkeley

Integrated Functional Nanostructures for Sensing and Energy Applications. Zero-, one-, and two-dimensional nanostructures have attracted great interests in the past decades for various applications. Leveraging from MEMS technologies, this talk will present our work on the integration of functional nanostructures for sensors and energy generation/storage applications.