



College of Engineering

Fall 2015 New Faculty

Research Seminar Series

Noon – 1 p.m., Prescott Hall 225

| Date | Speaker | Seminar Title | General Research Area(s) |
|-------------------------|---|---|--|
| October 1 Thursday | Liqun (Laura) Zhang, Ph.D. Chemical Engineering | <i>Investigating Model Asphalts and Transmembrane Protein Plexin Using Molecular Dynamics Simulations</i> | Structure, dynamics and functions of proteins and engineering materials using molecular dynamics simulation method |
| October 21 Wednesday | Daniel VandenBerge, Ph.D. Civil & Environmental Engineering | <i>Rapid Drawdown Stability Analysis using the Finite Element Method</i> | Slope stability analysis, soil shear strength, behavior of compacted clays and probabilistic methods in geotechnical engineering |
| November 10 Tuesday | ChaBum Lee, Ph.D. Mechanical Engineering | <i>Precision metrology and manufacturing for smart materials and structures</i> | Precision manufacturing and metrology technology including optical measurement, sensors and actuators, smart materials and structures, precision machining, and optical analysis and fabrication of diffractive optical components |
| November 19 Thursday | Mohammad Rahman, Ph.D. Computer Science | <i>Automated Formal Analytics for Smart Grid Security and Resiliency</i> | Network and information security analytics and automation, policy verification and threat analytics, risk assessment and security hardening, dependable management of cyber-physical systems |

**Bring your own lunch; beverages and snacks to be provided.
For more information please contact the College of Engineering
engineering@tntech.edu or call (931)327-3172**