

**Baylor University and the School of  
Engineering & Computer Science present:**

## **Jennifer Sinclair Curtis, Ph.D.**

**Candidate for Dean of the School of  
Engineering & Computer Science**



Dr. Jennifer Sinclair Curtis is Distinguished Professor in the Chemical Engineering Department at the University of Florida. She has an internationally recognized research program in the development and validation of numerical models for the prediction of particle flow phenomena.

### **Special lecture: *Using DEM to Develop Constitutive Models for CFD Simulations of Granular Flows***

**Thursday, January 26, 2012, 2:00-3:00 PM  
Rogers Engineering Building, Room 109**

Granular processes pervade the chemical, pharmaceutical, agricultural and mining industries. Many of these processes have significant opportunities for cost savings and productivity enhancements. However, advances are currently unrealized due to the lack of understanding of particle flow behavior in industrial scale processes. Reliable simulation tools can aid in this understanding and accelerate the achievement of substantial process improvements.

Dr. Curtis will show how discrete element method simulations, which describe the detailed motion of individual particles, are used to develop and test constitutive models employed in multiphase computational fluid dynamics codes.

### **Public reception with Dr. Curtis**

**Friday, January 27, 2012, 4:00-5:30 PM  
Rogers Engineering Building, Student Lounge**



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