

***The University of Alabama  
Department of Computer Science  
Colloquium Series***



**Dr. Robert France  
Professor  
Department of Computer Science  
Colorado State University**

**Why Modeling is Essential to Software Engineering  
Wednesday, February 24<sup>th</sup>**

**Presentation at 11:00 a.m. in SEC 3437, refreshments across the hall in SEC 3438 at 10:45 a.m.**

**Abstract:**

The term Model Driven Engineering (MDE) is typically used to describe software development approaches in which models of software systems are created, analyzed and used to create dependable implementations. In this talk I will discuss some of the major challenges that must be tackled in order to realize the MDE vision of software development. I argue that MDE research addresses core software engineering concerns. Some of the challenges are wicked problems, but they present the software engineering community with research opportunities that, if properly exploited, can lead to results that significantly reduce the gap between evolving software complexity and software development technologies.

**Bio:**

Dr. Robert France is a Full Professor in the Department of Computer Science at Colorado State University. His research interests are in the area of Software Engineering, in particular formal specification techniques, software modeling techniques, design patterns, and domain-specific modeling languages. He is an editor-in-chief of the Springer journal on Software and System Modeling (SoSyM), a Software Area Editor for IEEE Computer, and is a past Steering Committee Chair of the MoDELS/UML conference series. He was also a member of the revision task forces for the UML 1.x standards. He was awarded the Ten Year Most Influential Paper award at MODELS in 2008.