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## Computational Mathematics Seminar Series

**Overview of FELICITY: Finite Element Implementation and Computational Interface Tool for You****Shawn Walker, Louisiana State University**Digital Media Center 1034  
November 04, 2014 - 03:30 pm**Abstract:**

I will give an overview of a MATLAB/C++ toolbox (FELICITY) I have developed that provides a framework for solving PDEs with the Finite Element Method (FEM). In particular, I will explain the philosophy behind FELICITY (such as code generation), give a tutorial on solving some elliptic problems, and describe some details on how it is implemented.

**Speaker's Bio:**

Walker is an assistant professor jointly in the Mathematics Department and the Center for Computation & Technology (CCT) at Louisiana State University. He received his PhD from the University of Maryland, College Park, and his research interests include mathematical modeling and PDEs for moving/free boundary problems, finite element methods, mesh generation, and PDE-constrained (shape) optimization.

**This lecture has a reception @ 03:00 pm**