



# Transportation Seminar Series

*Friday, April 17th, 2009  
4 - 5 p.m. in 240 Bechtel Engineering Center*

**Kimberly Noonan**  
Analyst, Federal Aviation Administration

## **Fast-Time Simulation of the National Airspace System**

**Abstract:** The National Airspace Performance Analysis Capability (NASPAC) model is a discrete-event simulation that represents the NAS as a network of airport and airspace queues. NASPAC is comprised of several pre- and post-processing modules surrounding the core simulation engine. In this talk, I describe the components, inputs, and outputs of NASPAC model. Finally, I provide an application of the model to estimating the benefits of NextGen.

**Bio:** Kimberly Noonan is an Operations Research Analysis in the NextGen Systems Analysis group of the FAA's Air Traffic Organization. Kimberly has worked in airspace system modeling and simulation for 3 years. She received Masters Degrees in Mathematics and Computer Science at The University of North Carolina at Chapel Hill.

Please join us for a TRANSOC-sponsored cookie hour in the ITS library at 3:30 p.m.