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COLLOQUIUM ANNOUNCEMENT

Department of Statistics
Virginia Tech

Thursday, September 24, 2009
204 Hutcheson Hall
3:30 p.m.

SPEAKER: Jenise Swall, US EPA, Research Triangle Park, NC

TITLE: Statistical Issues in the Assessment of Air Quality Model Performance.

ABSTRACT:

During this talk, we will examine statistical problems involved in evaluating the performance of the Community Multi-scale Air Quality (CMAQ) model, an air quality model developed by EPA. We begin with a brief introduction to CMAQ and a discussion of the importance of model evaluation. We describe the observational data available for consideration in such assessments, with special attention to the differing protocols used by the various monitoring networks. We then consider the implications of spatial correlation and incommensurability for evaluation techniques, using both simulation studies and actual summer ozone measurements to help visualize the impact of these factors. Lastly, we discuss future directions and opportunities for statistical work in model evaluation and related areas.



☺ Please join us after the colloquium for refreshments at Top of the Stairs (217 College Ave.) ☺