



AMERICAN UNIVERSITY
WASHINGTON, D C

The Department of Mathematics and Statistics Colloquium

Cryptosporidium and Drinking Water: Assessing Risk Reduction Under the Long-Term 2 Enhanced Surface Water Treatment Rule (LT2)

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3:30 p.m. on Tuesday, January 28th

Ward 105

Abstract: The Long-Term 2 Enhanced Surface Water Treatment Rule will require utilities to monitor their source waters for the microbial pathogen *Cryptosporidium*. Those utilities with elevated levels will be required to take action to reduce drinking water exposures. To evaluate the costs and benefits of these actions, EPA constructed a national model of source water occurrence, drinking water treatment, *Cryptosporidium* monitoring, and corrective action. In this presentation, we show how statistical analyses inform the model. Summary results are provided, with discussions of uncertainty, variability, and sensitivity. Subjects covered include dose-response modeling, Bayesian hierarchical models, and microbial risk assessment.

Presented by

The AU Math/Stat Department and The AU Chapter of Sigma Xi

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Next Colloquium:

Tuesday, February 4, 2003 Ward 302

TBA
