

MATHEMATICAL MODELING OF INFECTIOUS DISEASES: TOOLS OF THE TRADE

**A FULL DAY SYMPOSIUM SPONSORED BY
Scientific Program on Mathematical Modeling for HIV/STD Research
Center for AIDS Research, UW/FHCRC
Vaccine and Infectious Disease Institute, FHCRC**

February 13, 2008

Talaris Conference Center in Laurelhurst

The symposium will feature four local modelers, and the keynote address will be given by Professor Bryan Grenfell, who chairs the NIH Modeling Infectious Disease Agent Systems (MIDAS) steering committee.

Continental breakfast and lunch will be provided.

For additional information: Contact Mary Lou Gamba, mgamba@fhcrc.org

This workshop will provide a brief but comprehensive review of the range of methodological tools used by researchers to model the transmission of infectious diseases through populations. There is a wide variety of methods in use, from simple deterministic models that can be solved analytically or implemented in a spreadsheet, to more complex deterministic models that require specialized computer packages, to stochastic models that permit networks and other heterogeneities to be represented but are very computationally intensive. The workshop will review the theory, computer programs, and computational resources needed for each, with example applications taken from local research projects.



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