Department of Mathematical Sciences
The University of Texas at El Paso

Colloquium

Sara Del Valle

Los Alamos National Laboratory

Friday, September 30, 2011 at 3 pm in BIOS 2.168

Mathematical Modeling of the Spread of Epidemics

Emerging and re-emerging infectious diseases are the leading cause of morbidity and mortality across the globe. Mathematical models can help the public and the medical and scientific communities understand and predict the spread of an epidemic and evaluate the potential effectiveness of different mitigation strategies. Modeling efforts can help improve the effectiveness of public health intervention measures and minimize the population and economic impacts of an epidemic. In this talk, I will describe different mathematical and computational models used to simulate the spread of infectious diseases and show the impact of pharmaceutical and non-pharmaceutical intervention strategies on the spread of diseases including smallpox and influenza.

For further information, please contact Dr. Emil Schwab, eschwab@utep.edu
Refreshments will be served in front of the colloquium room,
15 minutes before the start of the colloquium.