



**Master of Public Health  
Program**



**New Hampshire  
Public Health Association**

# **PUBLIC HEALTH**



## **Grand Rounds Series 2007-2008**

### ***Risk Assessments of Highly Pathogenic Avian Influenza and Lyme Disease***

**Xiangming Xiao, PhD**, Research Associate Professor  
Institute for the Study of Earth, Oceans, and Space  
University of New Hampshire

**Tuesday, March 25, 4:30-5:30 PM**

Little Theater at Portsmouth High School, Portsmouth, NH

#### **Lecture Objectives**

- 1) Introduce geospatial technology (remote sensing, global positioning system and geographic information system) and its role for ecology and epidemiology of infectious diseases and public health
- 2) Introduce geospatial technology application for spatial epidemiological analysis and risk assessment of highly pathogenic avian influenza (H5N1, bird flu) in Southeast Asia
- 3) Introduce our new research initiative that deploys geospatial technology for spatial epidemiological analysis and risk assessment of Lyme disease in New Hampshire

**To RSVP for this FREE Lecture:** Complete the form at

[http://www.chhs.unh.edu/hmp/0708grandround\\_regform.html](http://www.chhs.unh.edu/hmp/0708grandround_regform.html) or call 862-1128.

## Biography on Xiangming Xiao

Xiangming Xiao, Ph.D., leads the global land remote sensing program at Institute for the Study of Earth, Oceans and Space, University of New Hampshire. His research interests span a wide range of biological science, geo-science and health science, including climate change, land use and land cover change, global carbon cycle, remote sensing, and epidemiology and ecology of infectious diseases. His current research projects include (1) ecology-based risk assessment and early warning of highly pathogenic avian influenza, (2) ecology and epidemiology of Lyme disease, (3) remote sensing of biophysical and biochemical parameters and vegetation productivity, and (4) carbon fluxes and water fluxes in terrestrial ecosystems. His research group is producing a suite of global land products using MODIS (Moderate Resolution Imaging Spectroradiometer) satellite imagery, including land surface phenology (cropping intensity, crop calendar, phenology), agricultural and wetlands, and gross and net primary production of vegetation and transpiration. Through collaboration with leading researchers in the fields of epidemiology, animal health, and public health, his group is pursuing the effort that aims to integrate the state-of-the-art geospatial technology with eco-epidemiology and public health. For additional information on the research programs, please visit <http://remotesensing.unh.edu> and <http://eco-epidemiology.unh.edu> .