Statistics for Spatio-Temporal Data
October 22-23, 2012

Christopher K. Wikle
University of Missouri

This tutorial will include a presentation of state-of-the-art spatio-temporal processes, bridging classic ideas with modern hierarchical statistical modeling concepts. From understanding environmental processes and climate trends to developing new technologies for mapping public-health data and the spread of invasive-species, there is a high demand for statistical analyses of data that takes spatial and/or temporal information into account. Prof. Wikle's course will consider a systematic approach to key quantitative techniques for the statistical analysis of such data that features hierarchical (empirical and Bayesian) statistical modeling, with an emphasis on dynamical spatio-temporal models. This training will cover material from the text <u>Statistics for Spatio-Temporal Data</u> by Cressie & Wikle. The book by Cressie & Wikle will be available for purchase at a conference discount.