

**Department of Statistics 40th Anniversary  
Mini Symposium  
Friday, September 25, 2009  
1324 East Hall**

**PROGRAM**

1:30-2:00 pm    Registration  
Atrium, 1324 East Hall

2:00 -2:10 pm    *Welcome Remarks*, Tailen Hsing & Vijay Nair, UM

2:10 – 2:50pm    *“From practice to theory”*  
Peter Bickel, University of California, Berkeley  
In practical applications of statistics, the first goal is and should be to get to scientific or other conclusions as quickly and effectively as possible. Yet, more frequently than I expected, generalizable and interesting theory can come out of major specialized projects. I'll illustrate with two recent experiences of my own, arising in atmospheric sciences and genomics respectively.

2:50 – 3:30 pm    *“From academia to industry”*  
Robb Muirhead, Pfizer  
In this talk I'll include some reminiscences of my time in the Statistics Department at UM, describe what it was like to move to the pharmaceutical industry, and I'll say something (at a non-technical level) about the types of problems I've been involved in over the last few years.

3:30 – 3:50 pm    Break

3:50 – 4:30 pm    *“How did I end up here?”*  
Julian Faraway, University of Bath  
A particular censored sample path passing through Ann Arbor is examined. Some large perturbations are reviewed with the aid of graphics. Various hypotheses are proposed and inferences made with general application to the practice of Statistics.

4:30 – 5:10 pm    *“Simultaneous inference in time-varying linear models”*  
Wei Biao Wu, University of Chicago  
I will talk about construction of simultaneous confidence tubes (SCT) for time-varying regression coefficients in functional linear models. Using a Gaussian approximation result for non-stationary multiple time series, we show that the constructed SCTs have asymptotically correct nominal coverage probabilities. Our results are applied to the problem of testing whether the regression coefficients are of certain parametric forms, a fundamental problem in the inference of functional linear models. This is a joint work with Zhou Zhou. Faculty from UM Statistics Department have made contributions in various aspects of the problem, and I will talk about their research also.