

## **GEORGE C. CHALLIS LECTURESHIP**

### **Title: As Time Goes By An Introduction to Methods for Analysis of Longitudinal Data**

**Abstract:** Studies in which data are collected over time repeatedly on each of a number of individuals are ubiquitous in health sciences research. Over the past few decades, fundamental advances in the development of statistical methods to analyze such longitudinal data have been made. However, although these methods are widely accepted by research statisticians, they are less well known among biomedical researchers, who thus may be reluctant to embrace them. In this talk, I will discuss the types of scientific questions that may be of interest in longitudinal studies, the rationale for the need for specialized methods for longitudinal data analysis, and the basic elements of popular longitudinal data methods and their advantages over cross-sectional and ad hoc approaches. There will be some, but not many, equations, but lots of pictures and examples drawn from collaborations in cardiology, pharmacology, HIV research, and other substantive fields.

**Speaker:** Marie Davidian  
North Carolina State University

**Day:** Tuesday, November 19, 2002

**Time:** 4:00 pm

**Place:** Room HSC C1-9