

SCASA's 2006 Workshop in Applied Statistics:

Applied Longitudinal Analysis – Nan Laird

Professor of Biostatistics, School of Public Health – Harvard University

Abstract: The past 25 years have seen considerable progress in the development of statistical methods for the analysis of longitudinal data. Despite these important advances, methods for the analysis of longitudinal data have been somewhat slow to move into the mainstream. This talk will discuss the main issues related to taking repeated measurements on the same subjects over a period of time and introduce statistical methods of analyzing such data. We will describe the defining feature of a longitudinal study, the primary goal of a longitudinal study, and the feature of longitudinal data that complicates their analysis. We will also provide a practical introduction to established methods for analyzing longitudinal data. These methods are presented in the setting of numerous applications to real data sets drawn from studies in health-related fields.

Biography: Nan Laird is Professor of Biostatistics at the Harvard School of Public Health. She is a Fellow of the American Statistical Association and the Institute of Mathematical Statistics and a member of the International Statistical Institute. She has been involved in all aspects of longitudinal data analysis for over 20 years: teaching, methodological and applied research. She has collaborated on longitudinal studies in nutrition, psychiatry, and environmental health, and in longitudinal clinical trials. She is the co-author of the textbook, "Applied Longitudinal Analysis" (Wiley, 2004) and author of a monograph on "Analysis of Longitudinal and Cluster Correlated Data." She has taught several courses on the topic in universities as well as industry.

Lunchtime Talk:

The Statistician in History from Laplace to Fisher – Ted Porter

Professor of History – UCLA

This talk will examine the roles of some famous statisticians in science, administration, and politics, and the practical goals they hoped to achieve with numbers and calculation.

Ted Porter is a professor of history of science at UCLA and author of three books pertaining to history of statistics and quantification: *The Rise of Statistical Thinking* (1986), *Trust in Numbers* (1995), and *Karl Pearson: The Scientific Life in a Statistical Age* (2004).

Logistics, Schedule, and Further Information

To register for the workshop, please return the enclosed registration form. Discounted registration is available for those who postmark it no later than March 13th. After that, lunches cannot be guaranteed and will be on a "first paid, first served" basis.

Registration materials (driving and parking instructions, receipt, schedule for the workshop) will be returned beginning on March 1st. **Refund requests** cannot be honored after March 13th. If you are making a refund request, please send a self-addressed stamped envelope and also email Anita at iannucci@uci.edu.

If you do not attend the workshop after paying for it, we will gladly mail your handouts to you but will charge a \$5 fee to cover postage and envelopes. Or you may have a friend pick up your materials for you at the workshop at no additional charge.

Check-in, late registration, pickup of workshop materials, and bagels/muffins and coffee/tea will be from 8:30-9:00 a.m. The workshop will begin at 9:00 a.m. sharp.

For further information: Anita Iannucci at iannucci@uci.edu or 949-824-1682 (afternoons).
SCASA's web site: <http://www.sc-as-a.org>