

Speaker Biographies

Mark P. Becker, President, Georgia State University. Mark Becker received his Ph.D. in Statistics from Pennsylvania State University. Between 1989 and 2000 he was a professor in the Department of Biostatistics at Michigan and then Associate Dean for Academic Affairs in the UM School of Public Health. He then was appointed Dean of the School of Public Health at the University of Minnesota, and later Executive Vice President for Academic Affairs and Provost at the University of South Carolina. He became the seventh president of Georgia State University on Jan. 1, 2009. Becker's biostatistical research interests include the analysis of categorical and repeated measures data, and he has served as Editor of *Sociological Methodology*.

Richard G. Cornell, Professor Emeritus, University of Michigan. Richard Cornell received a Ph.D. in Statistics from Virginia Tech, and joined the Centers for Disease Control in Atlanta as an Epidemic Intelligence Officer. He later held professorial appointments in Statistics at Florida State University before succeeding Felix Moore as the third chair of the Biostatistics Department at the University of Michigan, a position which he held until 1983. Under his leadership the Department grew significantly in size and scope. He was Interim Chair of the Department from 1990-93, and in 1993-5 he served as Interim Dean of the School of Public Health, when he led a reorganization of the School. Amongst many methodological contributions, Dr. Cornell is particularly well known for his landmark use of novel sequential statistical designs in the ECMO study.

Dianne Finkelstein, Director of Biostatistics, Massachusetts General Hospital and Professor, Harvard Medical School. Dianne Finkelstein completed her PhD in Biostatistics at University of Michigan in 1981. She has been on the faculty of Harvard School of Public Health and Harvard Medical School for 27 years. In 2004, she received the rare distinction amongst statisticians of being promoted to Professor in Medicine at Harvard Medical School. Dr. Finkelstein has made contributions to biostatistics methodology in survival analysis, carcinogenicity testing, clinical trials, and epidemiology. She has had almost uninterrupted grant support for her research for the past 20 years. She has served as an editor for three major statistical methods journals, including *Biometrics*, for which she has been an editor for over 20 years. She has been active in the statistical organizations, including the proposal and development of the FN David award from CCOPS for outstanding female statisticians.

Debashis Ghosh, Associate Professor of Statistics, Pennsylvania State University. Debashis Ghosh received his Ph.D. from the University of Washington, and was on the faculty of the Department of Biostatistics at Michigan as Assistant and Associate Professor from 2001 to 2007. Dr. Ghosh's research interests are primarily in statistical methods for the analysis of large-scale genetic and genomic datasets in biological experiments. Many of his substantive collaborations have been with biologists generating high-dimensional datasets using modern high-throughput molecular assays. He is particularly interested in methods for integrating data across diverse genomic platforms as well as incorporating biological knowledge in the statistical analysis of high-throughput biological data in human disease settings. Consideration of these high-dimensional datasets has also led to Dr. Ghosh's interest in more methodological problems, most recently involving the development of Empirical Bayes multiple testing procedures for high-dimensional data. This has led to a methodology he terms shrunken p-values for assessment of differential expression (SPADE). Dr. Ghosh also has general research interests in semiparametric models and survival analysis.

Joel B. Greenhouse, Professor of Statistics, Carnegie Mellon University, and Adjunct Professor of Psychiatry and Epidemiology at the University of Pittsburgh. Joel Greenhouse completed his Ph.D. in Biostatistics at the University of Michigan in 1983. His research interests include methods for the analysis of data from longitudinal and observational studies, methods for clinical trials and meta-analysis. He is an elected Fellow of the American Statistical Association, the American Association for the Advancement of Science, and an elected Member of the International Statistical Institute. Professor Greenhouse is a recipient of Carnegie Mellon University's Ryan Teaching Award, and the College of Humanities and Social Sciences' E. Dunlop Smith Award for distinguished teaching and educational service. He has been a member of the National Academy of Science's Committee on National Statistics, the Institute of Medicine's Committee on the Assessment of Family Violence Interventions, and the National Research Council panel on Statistical Issues for Research in the Combination of Information. He is an editor of the journal *Statistics in Medicine*, and is a past editor of the Institute of Mathematical Statistics' *Lecture Notes and Monograph Series*.

Beth Hauser, Associate Research Professor, Department of Medicine, Duke University. Beth Hauser graduated with a PhD from the UMSPH Biostatistics Department in 1998 after (she tells us) a long, long time as a graduate student. She is currently Chief of the Division of Medical Genetics and the Center for Human Genetics at the Duke University School of Medicine. Dr. Hauser is a statistical geneticist with experience in the development and application of methods for the analysis of affected sibling pair data in studies of complex genetic disorders. Her current research interests include cardiovascular genetics, informatics, and methodological developments for complex diseases.

Robert Kasprzyk, Human Resources Global Director, The Dow Chemical Company. After receiving his MA in Statistics from the University of Michigan, Bob began his career with EPA as a math modeling analyst studying the Great Lakes. He joined Dow in the Mathematical Applications group, which focused on improved research and manufacturing process using proven statistical methodology. He became the leader of the Applied Statistics group at Dow, assisting in the development of Dow's statistical quality management processes and Six Sigma. He also held roles in Information Systems as the Marketing & Communication and Change Management expert on the key project team responsible for the installation of the first Dow globally standardized workstations. He has led global Training and Development and was the director of Executive Education and Leadership programs for Dow. He is now the Global HR Director for Manufacturing and Engineering, Finance, Business Services, Legal and Government Affairs and sits on the leadership teams for the functions he supports.

J. Richard Landis, Ph.D., Professor of Biostatistics, University of Pennsylvania School of Medicine. Dr. Landis serves as Director of the Biostatistics Unit within the Center for Clinical Epidemiology and Biostatistics (CCEB), and Co-Director of the Clinical Research Computing Unit. Prior to assuming his current position at the University of Pennsylvania in 1997, Dr. Landis was Professor of Biostatistics at the University of Michigan School of Public Health, where he served on the faculty for thirteen years (1975-1988). In 1988, he founded the Center for Biostatistics and Epidemiology at the M.S. Hershey Medical Center of the Pennsylvania State University and served as its Director for nine years before his relocation to Penn. For over thirty years now, Dr. Landis has been actively involved in collaborative biomedical research, and the development and evaluation of methods for the analysis of repeated measurement and longitudinal categorical data, epidemiological studies, complex sample surveys and applications to cardiovascular, ophthalmology, respiratory, psychiatric, renal and urological research. Dr. Landis is a Fellow of the American Statistical Association (1987), elected member of the International Statistical Institute (1985), recipient of the Mortimer Spiegelman Award, and recipient of an Environmental Protection Agency Scientific and Technical Achievement Award.

Danyu Lin, Dennis Gillings Distinguished Professor of Biostatistics, University of North Carolina at Chapel Hill. Danyu Lin received his Ph.D. from the UM Biostatistics Department in 1989. After one-year post-doc at Harvard, he joined the University of Washington in 1990, where he was promoted to Associate Professor in 1994 and to Professor in 1998. He moved to the University of North Carolina at Chapel Hill in 2001 to become the Dennis Gillings Distinguished Professor of Biostatistics. Dr. Lin's research interests range from survival analysis to statistical genetics. He has published more than 100 papers in statistical and genetic journals. Dr. Lin is a Fellow of ASA and IMS, a recipient of Mortimer Spiegelman Award, and a Highly Cited Researcher of Thomson ISI. He has served as an Associate Editor of *Biometrika* since 1997.

Xihong Lin, Professor of Biostatistics, Harvard University. Dr. Lin received her Ph.D. from the University of Washington in 1994, and then joined the Department of Biostatistics at Michigan as an Assistant Professor, where she was promoted to Full Professor before her move to Harvard University in 2005. Her major statistical research interests lie in developing statistical methods for high-dimensional data, including genomic and proteomic data in basic, population and clinical sciences, and longitudinal, clustered, hierarchical and spatial data. She is particularly interested in developing statistical and computational methods for "omics" data in population-based studies, such as genetic epidemiology, genetic environmental sciences and clinical studies. She currently serves as the coordinating director of the Program of Quantitative Genomics of Harvard School of Public Health. Dr. Lin's areas of applications include cancer, genetic epidemiology, gene and environment, genome-wide association studies, genomics in population science, biomarkers and proteomics. Dr. Lin has served as Editor of *Biometrics*, and has numerous awards, including the 2002 Spiegelman Award and the 2006 COPSS award.

Roderick Little, Richard D. Remington Collegiate Professor, Department of Biostatistics, University of Michigan. Dr. Little became Chair of the Biostatistics Department in January 2007, having previously chaired the Department from 1993 to 2001. Prior to that, he was a faculty member in the Department of Biomathematics at the University of California at Los Angeles. In 2005, Dr. Little received the Wilks' Memorial Award from the American Statistical Association for his research contributions. These mainly concern methods for the analysis of data with missing values, model-based survey inference, and the application of statistics to diverse scientific areas, including medicine, demography, economics, psychiatry, aging and the environment. Active editorially, he was Coordinating and Applications Editor of the *Journal of the American Statistical Association* from 1992-1994. He has served as a member of the Committee on National Statistics and a number of other National Research Council committees, and he currently chairs a panel on missing data in clinical trials. Rod is Chair of the Survey Research Methods Section of the ASA, and was elected a Vice President of the ASA in 2010.

Keith Rust, Vice President and Associate Director of the Statistical Staff, Westat, Inc. Keith Rust received his Ph.D. in Biostatistics at the University of Michigan in 1984. Westat is a major employee-owned research firm located in Rockville, Maryland. Dr. Rust has extensive experience in sampling methods, the design and specification of large-scale sample surveys, and the analysis of survey data. He has applied his research and knowledge to a variety of education research projects over the past 20 years, both national and international. He has directed work on government surveys related to education, health, and social issues. Keith teaches survey methods at the Joint Program in Survey Methodology at the University of Maryland, and also holds a position at the Michigan Program in Survey Methodology. He is a Fellow of the American Statistical Association, and has held elected positions in the Survey Research Methods and Social Statistics Sections, and the Washington Statistical Society. He was a member of the National Academy of Sciences' Committee on National Statistics during the 1990s.

Tom Ten Have, Professor of Biostatistics, University of Pennsylvania School of Medicine. Professor Ten Have received his Ph.D. in Biostatistics from the University of Michigan in 1991, before assuming a faculty appointment in the Center of Clinical Epidemiology and Biostatistics at the University of Pennsylvania. His statistical research interests include random effects models, informative dropout, causal models, mediation and moderation analyses, treatment non-adherence, and designs and statistical analyses to accommodate patient preferences and adaptive treatment regimes. This methods research melds with his collaborations in psychiatry, family medicine, addiction research, and disparities research, with a focus on multi-site randomized and observational studies, such as those focusing on comparative effectiveness research. Dr. Ten Have is a Fellow of the American Statistical Association, a charter member of an NIMH study section, and an associate editor for *Biometrics*.

Edward F. Vonesh Jr., Professor, Department of Preventive Medicine, Northwestern University, & Managing Member, Vonesh Statistical Consulting. Ed Vonesh received his Ph.D. in Biostatistics at the University of Michigan in 1983. Between 1979 and 2007, Dr. Vonesh held a number of senior positions at Baxter Healthcare Corporation. Dr. Vonesh's primary research interests are in the area of Generalized Linear and Nonlinear Mixed-Effects Models, and he co-authored an important book on *Linear and Nonlinear Models for the Analysis of Repeated Measurements*. Other areas of interest include outcomes research; kinetic modeling in Hemodialysis and Peritoneal Dialysis; design and analysis of clinical trials; statistical methodology for joint analysis of survival data and longitudinal data. **Dr. Vonesh is** Fellow of the American Statistical Association (ASA), Member of the Biometric Society (ENAR); Elected member of the International Statistical Institute; Past President of Northeastern Illinois Chapter of ASA; and a member of the Editorial Board of Peritoneal Dialysis International.

Lee-Jen Wei, Professor of Biostatistics, Harvard University. L.J. Wei received his Ph.D. from the University of Wisconsin in 1975, and was Professor of Biostatistics at the University of Michigan between 1986 and 1988. He also held faculty positions at South Carolina, George Washington University and Wisconsin, before joining the faculty at Harvard in 1991. His research is in the area of developing statistical methods for the design and analysis of clinical trials. In 1977-78 he introduced the "urn design" for two-arm sequential clinical studies, and in 1979, he proposed a response adaptive design, a randomized version of Marvin Zelen's play the winner rule, which was used in the ECMO trial, a well-known study which evaluated extracorporeal membrane oxygenation for treating newborns with persistent pulmonary hypertension. Dr. Wei has developed numerous methods for analyzing data with multiple outcome or repeated measurements obtained from study subjects, and alternatives to the Cox proportional hazards model for analyzing survival data. Presently, Wei and colleagues are working on resampling methods for quantile regression, rank regression, and regression models for censored data. Dr. Wei works closely with the medical investigators in Pediatrics AIDS clinical trials for evaluating new treatments for HIV patients. Amongst numerous honors for his research, Dr. Wei won the Mortimer Spiegelman award in 1987.

George Williams, Vice President of Global Biomedical Data Sciences, Amgen Inc. Williams obtained his Ph.D. in Biostatistics from the University of North Carolina, Chapel Hill in 1972, and from 1972 to 1980 he was on the faculty of the Department of Biostatistics, University of Michigan. In 1980 he became the founding Chairman of the Department of Biostatistics and Epidemiology at the Cleveland Clinic Foundation. He has since held leadership positions at Merck Research Laboratories and Bristol-Myers Squibb Company. Williams has served as Vice President of the American Statistical Association, President of the Society for Clinical Trials, and a member of the Board of Trustees of the National Institute of Statistical Sciences. He is a Fellow of the ASA, the Society for Clinical Trials, the American College of Epidemiology, and the American Heart Association.

Robert Wolfe, Emeritus Professor, University of Michigan. Robert Wolfe joined the faculty at the University of Michigan after receiving his Ph.D. in statistics in 1978 from Stanford University. His research interests are focused on methods to study the mechanisms and associations that underlie processes which unfold through time. Such methods include both aspects of the design of experiments and of the analysis of data from experiments and surveys. He is particularly interested in methods that help to disentangle complex sequences of information related to the natural history of specific disease processes and their treatment. Recent collaborative work includes: (1) comparison of treatment modalities for patients with end stage renal disease, and (2) evaluation of variability in hospital admission rates among communities.