

Thomas Bement, Ph.D. Dr. Tom Bement joined the Statistical Sciences Group at Los Alamos in 1975. He received his B.S. degree in mathematics and M.S. degree in statistics from Colorado State University, and his Ph.D. in Statistics from Kansas State University. He has been involved in the nuclear weapons program since joining Los Alamos. His project assignments have included the application of statistical theory and methods to production quality control, reliability analysis, test design and data analysis, and probabilistic risk and safety analysis. Since the nuclear test moratorium, his particular area of application has been reliability and uncertainty characterization involving the integration of diverse sources of information, including the extensive use of expert judgment. Dr. Bement has published in journals such as *Technometrics*, the *Journal of the American Statistical Association*, and the *Journal of Quality Technology*. He was a coauthor of the paper receiving the 1992 American Society for Quality Control Brumbaugh Award. He was co-developer of "PREDICT: A New Approach to Product Development," a 1999 R&D 100 Award winning methodology for reliability and uncertainty characterization in situations where minimal traditional data are available. He is a member of the American Statistical Association and the American Society for Quality Control.

Jane Booker, Ph.D. Dr. Jane M. Booker joined the Statistics Group at Los Alamos National Laboratory in 1980 and was the Group Leader from 1992-1998. She received her Bachelor of Science degree in Meteorology & Engineering, her Master of Statistics and Ph.D. in Statistics, all from Texas A&M University. She has 2 years of university teaching experience, 10 years of technical management experience, and over 20 years of consulting experience in scientific and engineering application areas. Her recent research and development efforts have been in the areas of statistical reliability, information integration methods, and analysis of expert opinion. During her career, she has published in various journals and co-authored a book with Dr. Mary Meyer, *Eliciting and Analyzing Expert Judgment: A Practical Guide*, published by Academic Press, London, 1991. She is a member of the Institute of Mathematical Statistics, a Fellow of the American Statistical Association, 1995 recipient of the H.O. Hartley award for service to the Statistics profession, and co-editor of a book to be published next year by ASA-SIAM on Fuzzy Logic and Probability Applications. In 1999, she received the prestigious R&D 100 Award presented by *R&D Magazine* for the reliability methodology, PREDICT, in conjunction with the Delphi Automotive Systems.

Sallie Keller-McNulty, Ph.D. Dr. Sallie Keller-McNulty is Group Leader for the Statistical Sciences Group at Los Alamos National Laboratory. Prior to her move to Los Alamos, Dr. Keller-McNulty was Professor and Director of Graduate Studies at the Department of Statistics, Kansas State University, where she has been on the faculty since 1985. She spent two years between 1994-1996 as Program Director, Statistics and Probability, Division of Mathematical Sciences, National Science Foundation. Her on-going areas of research focus on computational and graphical statistics applied to statistical databases, including complex data/model integration, and related software and modeling techniques, and she is an expert in the area of data access and confidentiality. She currently serves on two National Research Council committees, the CSTB Committee studying Information Technology and Federal Services; and the Committee on National Statistics Panel on the Research on Future Census Methods (for Census 2010), and chairs the National Academy of Sciences' Committee on Applied and Theoretical Statistics. She received her Ph.D. in Statistics from Iowa State University of Science and Technology. She is a Fellow of the American Statistical Association (ASA) and has held several positions within the ASA, including currently serving on its board of directors. She is an Associate Editor of *Statistical Science* and has served as Associate Editor of the *Journal of Computational and Graphical Statistics* and the *Journal of the American Statistical Association*. She serves on Executive Committee of the National Institute of Statistical Sciences, on the Executive Committee of AAAS Section U, and chairs the Committee of Presidents of Statistical Societies.

Mark McNulty, Ph.D. Dr. Mark McNulty is a Technical Staff Member in the Probabilistic Risk and Hazard Assessment Group at Los Alamos National Laboratory. His current work and research efforts focus on risk analyses of major programmatic initiatives and the risk-based prioritization of Laboratory projects. Dr. McNulty received a joint Ph.D. in Statistics/Economics from Iowa State University in 1985. He was Associate Professor and Director of Graduate Studies in the Department of Economics, Kansas State University from 1985 to 1998. Dr. McNulty's areas of research included information theory, risk analysis, and econometrics. He published numerous articles and had primary responsibility for graduate level instruction in these areas. He was employed by the Center for Adaptive Systems Analysis from 1998-1999 where he performed risk analyses for major corporations such as Citibank and Monsanto.

Mary Meyer, Ph.D. Dr. Mary Meyer is a cultural anthropologist, specializing in the study of scientists, their knowledge and work practices. For the past 20 years, she has focused on developing methods to elicit scientists' expert judgment; that is, their answers to technical questions that cannot be answered by other means. She received her Bachelors degree in Linguistics from the University of California, Irvine, and her Masters and Ph.D. in ethnology (cultural anthropology) from the University of New Mexico. She is a member of Sigma Xi and Applied Anthropologists of America. Her papers have appeared in a variety of journals, ranging from *IEEE* to *Knowledge Acquisition*, and she recently co-edited a special issue of *Theoria et Historia Scientiarum* on interdisciplinary knowledge with Ray Paton, University of Liverpool, England. The book that she co-authored with Dr. Booker, *Eliciting and Analyzing Expert Judgment: A Practical Guide*, will be reprinted by the American Statistical Association, SIAM Series, in March 2001. She currently leads an interdisciplinary team in the Statistical Sciences Group, Los Alamos National Laboratory, that focuses on creating customizable technologies for eliciting, representing, integrating and analyzing experts' knowledge to support their problem solving. She has received honors for this work, most recently in 1999, the distinguished performance award from the Laboratory and the R&D 100 award from *R&D Magazine*.

C. Shane Reese, Ph.D. Dr. Shane Reese is a Technical Staff Member in the Statistical Sciences Group at Los Alamos National Laboratory. Dr. Reese completed his Ph.D. in Statistics at Texas A&M University in 1999, winning the Connor Award as the Statistics Department's outstanding graduate student. His research interests include the combination of diverse information sources, supercomputer reliability and maintainability, and environmental restoration. Dr. Reese is the President of the Albuquerque Chapter of the American Statistical Association and the Continuing Education Chair for the Section on Physical and Engineering Sciences of the American Statistical Association.

Alyson Wilson, Ph.D. Dr. Alyson Wilson is a Technical Staff Member and the Technical Lead for DoD Programs in the Statistical Sciences Group at Los Alamos National Laboratory. Prior to her move to Los Alamos, Dr. Wilson was a senior operations research systems analyst working in support of the U.S. Army Operational Evaluation Command, Air Defense Artillery Evaluation Directorate. In this position, she worked on the operational evaluation of PATRIOT, THAAD, Bradley Stinger Fighting Vehicle, and JTAGS/SBIRS. She also spent two years at the National Institutes of Health performing research in the biomedical sciences. Her research focuses on Bayesian methods, with emphasis on reliability modeling and statistical quality and process control. She currently serves on the American Statistical Association Committee on Statisticians in Defense and National Security and the Planning Committee for the Army Conference on Applied Statistics. She received her Ph.D. in Statistics from the Institute of Statistics and Decision Sciences at Duke University.