Plenary & Awards Sessions

American Statistical Association
Committee of Presidents of Statistical Societies

presented at the

166th Annual Meeting
Seattle, Washington

Monday 4 p.m.
ASA President's Invited Address
August 7, 2006
Washington State Convention & Trade Center, Ballroom 6ABC

Tuesday 4 p.m.
Deming Lecture
August 8, 2006
Washington State Convention & Trade Center, Ballroom 6ABC

Tuesday 8 p.m.
ASA Presidential Address and Awards
August 8, 2006
Washington State Convention & Trade Center, Ballroom 6ABC

Certificates of Appreciation
Samuel S. Wilks Award
Gottfried E. Noether Awards
Statistics in Chemistry Award
Award of Outstanding Statistical Application
W. J. Youden Award in Interlaboratory Testing
Edward C. Bryant Scholarship Award
Gertrude M. Cox Scholarship in Statistics Award
Statistics Partnerships among Academe, Industry, and Government Award
ASA Presidential Address
Founders Award
New ASA Fellows

Wednesday 4 p.m.
COPSS Awards and Fisher Lecture
August 9, 2006
Washington State Convention & Trade Center, Ballroom 6ABC

Elizabeth L. Scott Award
Presidents' Award
Fisher Lectureship

ASA President's Invited Address

2006

William R. Pulleyblank

Monday, August 7, 2006, 4:00 p.m.
Washington State Convention & Trade Center, Ballroom 6ABC

"A Data-Driven World: Why Now, and What Do We Do about It?"

William R. Pulleyblank
**IBM Global Services,
IBM Business Consulting Services**

Business and industry are experiencing a transformation in the way they handle their operations and planning due to technology advances, globalization and economic pressures, and the development of enabling methods and tools. For this transformation to succeed, we must address five fundamental questions: How do we deal with massive amounts of noisy data, both repository and streaming? Can we develop adequate methods for handling risk and uncertainty? How should we deal with issues of distributed data and computation? What is required for operational systems to take advantage of data in the same way as planning systems? How do we incorporate these changes into the emerging networked business world? I will discuss these questions and ideas we are developing at IBM to find answers.

A Brief Look at William Pulleyblank

William R. Pulleyblank is the vice president of the Center for Business Optimization within IBM Business Consulting Services. This group is leading the development and deployment of high-powered optimization and analytic capabilities to improve the business performance of IBM's clients and customers.

Prior to this, he was the director of Exploratory Server Systems and director of the Deep Computing Institute within IBM Research. These teams provided broad-based support to IBM's server activities and leading research in high-performance computing. This included the Blue Gene project, which led to the creation of the Blue Gene/L supercomputer, certified as the most powerful supercomputer in the world. He was Director of Mathematical Sciences in IBM Research from 1995 to 2000, and was the research relationship executive responsible for the Financial Services sector in IBM, the utility and energy services industry, and the Business Intelligence Group.

He has served on a number of boards and advisory panels, including the Advisory Committee of the Division of Mathematics & Physical Sciences of the National Science Foundation, the Board on Mathematical Sciences of the National Research Council, the iCORE Board of Directors, the Science Advisory Board of the National Institute of Aerospace, and the Scientific Advisory Panel of The Fields Institute for Research in Mathematical Sciences. He also serves on the editorial boards of a number of journals.

His personal research interests are in operations research, combinatorial optimization, and applications of optimization. In addition to writing scientific papers and books, he has consulted for several companies, including Mobil Oil on helicopter routing, Marks and Spencer on depot management, Statistics Canada on survey validation, and CP Rail on train scheduling.

Deming Lecture 2006

Ronald D. Snee

A Brief Look at W. Edwards Deming

When W. Edwards Deming joined the American Statistical Association in 1937, a prospective member had to apply for consideration, be sponsored by one or more members, and then be voted on by the Board of Directors. Fellows—he became one in 1942—were limited to 100.

In the intervening years, Deming's incisive genius and personal style touched many of our members in ways reflective of the range and depth of his interests. To the Association, he remained an interested and active member, evidenced by his many generous gifts and the notes frequently received with his decided opinions stated succinctly.

Deming acquired a reputation for expertise in sampling techniques and for applying statistical process control to organizational functions. He developed techniques for sampling that were first implemented in the 1940 Census. During World War II, he and his colleagues led seminars in quality control for wartime industries. He is, however, best known for his post-war work in Japan and his subsequent quality management seminars, which he led with typical vigor until his death at 93 years of age. More than 100,000 participants attended his four-day seminars throughout his long and illustrious career.

At the 1989 ASA Sesquicentennial, Deming was one of the expert panelists (along with the good company of Morris Hansen, C. R. Rao, John Tukey, and Sir David Cox) in an overflow session; he joined us again for a reception in his honor in the fall of 1991, when we dedicated his portrait and the ASA's Deming Library, which displays a sample of his many awards and honors. Our last formal contact with one of our best-known members was at the 1993 San Francisco Joint Statistical Meetings, where, although frail, Deming gave the President's Invited Address to a captivated audience of more than 1,500.

In 1995, through a cooperative effort with the Deming Institute, the ASA dedicated the recreation of Deming's office at the ASA headquarters in Alexandria, Virginia. This office is available for research to those interested in Deming's work.

Because Deming touched the ASA and its members in so many enduring ways, the Association is pleased to honor his memory with the Deming Lecture.

—American Statistical Association

Tuesday, August 8, 2006, 4:00 p.m.
Washington State Convention & Trade Center, Ballroom 6ABC

For significant and numerous contributions to the advancement of the philosophy and teachings of W. Edwards Deming

To **Ron Snee,** who—through his consulting, books, and research—has advanced the use of statistical methodology and statistical thinking in making major improvements in the use and practice of quality management, most notably through advances in the use of mixture experiments and in the successful implementation of Six Sigma programs and methodology, thus extending the impact of many of Deming's ideas.

Introduction and Acknowledgment
of Support ....Lorraine Denby, Chair
Deming Lectureship Committee

Remembering Dr. Deming.................................... Lorraine Denby

Introduction of Speaker... Lorraine Denby

Presentation of Plaque........ Sallie Keller-McNulty, ASA President

The 2006 Deming Lecture
"Making Another World: a Holistic Approach to Performance Improvement"
Ronald D. Snee
Tunnell Consulting, Inc.

This lecture is made possible by donations from General Motors, Eastman Kodak, Bandag Inc., Gallery Furniture, Xerox, and friends of W. Edwards Deming.

2006 Deming Lectureship Committee
Lorraine Denby, Chair; Cynthia Z. F. Clark; Steven B. Cohen; Karen A. Copeland; Laura A. Knapp; Kenneth J. Koehler; Randall K. Spoeri; Jane-Ling Wang; and William H. Woodall

Past Lecturers
*Brian L. Joiner, 1996 • Noriaki Kano, 1997 • Myron Tribus, 1998 • Kenneth Prewitt, 1999
George E. P. Box, 2000 • Gerald J. Hahn, 2001 • Sir David R. Cox, 2002
Wayne A. Fuller, 2003 • Colin L. Mallows, 2004 • A. Blanton Godfrey, 2005*

Organizers: Deming Lectureship Committee
Chair: Lorraine Denby, Avaya Labs

ASAAwards

Fritz J. Scheuren, Chair, ASA
President 2005

2006

Tuesday, August 8, 2006, 8:00 p.m.
Washington State Convention & Trade Center, Ballroom 6ABC

Certificate of Appreciation for Retiring Editors

A&CS and Coordinating Editor, *Journal of the American Statistical Association,* 2004–2006
★ **Mark S. Kaiser,** Iowa State University

Editor, *Journal of Business & Economic Statistics,* 2004–2006
★ **Torben G. Andersen,** Kellogg School of Management, Northwestern University

Editor, *Journal of Computational and Graphical Statistics,* 2004–2006
★ **Luke Tierney,** University of Iowa

Editor, *Journal of Statistics Education,* 2004–2006
★ **W. Robert Stephenson,** Iowa State University

Reviews Editor, *Technometrics,* 1985–2006
★ **Eric R. Ziegel,** BP E&P Technology Group

Abstracting Editor, *Current Index to Statistics,* 2000–2006
★ **George P. H. Styan,** McGill University

Database Editor, *Current Index to Statistics,* 2004–2006
★ **David A. James,** Bell Labs, Lucent Technologies

A Brief Look at the
Award's Historical Honorees

Samuel S. Wilks Award

Mark P. Becker, Chair
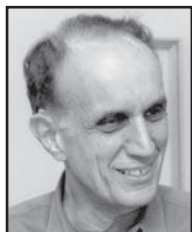Samuel S. Wilks Memorial Medal Committee

For fundamental contributions to the discipline of statistics and for fostering its applications in the public interest.

Marvin Zelen
Harvard School of Public Health

Samuel S. Wilks

The award, one of ASAs most prestigious, was established in 1964 to honor the memory and distinguished career of Samuel S. Wilks by recognizing outstanding contributions to statistics that carry on in the spirit of his work.

Gottfried E. Noether Awards

Regina Y. Liu., Chair
Noether Awards Committee

Noether Senior Scholar Award

For a lifetime of outstanding achievements and contributions in the field of nonparametric statistics, both in research and teaching.

Bradley Efron
Stanford University

Noether Young Researcher Award

For achievements as a Young Scholar in the field of nonparametric statistics.

Ciprian M. Crainiceanu
The Johns Hopkins University

Gottfried E. Noether

The Noether Awards were established in 1999 as a tribute to Professor Gottfried Emanuel Noether, who died on August 22, 1991, in Windham, Connecticut. His wife, Dr. Emiliana Noether, and daughter, Dr. Monica Noether, presented the American Statistical Association (ASA) with an Endowment Fund to recognize distinguished researchers and teachers and to support research in the field of nonparametric statistics.

Statistics in Chemistry Award

Daniel C. Park, Chair
SPES Committee on Chemometric

This award is sponsored by the Chemometrics Committee of the ASA
Section on Physical and Engineering Sciences (SPES)

Katja S. Remlinger
GlaxoSmithKline R&D

Jacqueline M. Hughes-Oliver
North Carolina State University

S. Stanley Young
NISS

Raymond L. H. Lam
Centocor

Award of Outstanding Statistical Application

Karen Kafadar, Chair
Committee on Award of Outstanding Statistical Application

Established in 1986, this award recognizes a paper containing an outstanding
application of statistics in any substantive field.

Thomas A. Ferryman
Battelle Pacific Northwest Division

Brett G. Amidan
Battelle Pacific Northwest Division

To Thomas A. Ferryman and Brett G. Amidan, Battelle Pacific Northwest
Division, Statistical Sciences, in recognition of their paper, "The Morning
Report: Advanced Proactive Safety and System Monitoring Tool."

"A data-intensive airline safety and information software tool that uses sophis-
ticated multivariate statistical algorithms to analyze massive amounts of data
from thousands of airline flights overnight, generating an intuitively structured
report every morning."

—Quoted from the Nomination Letter

W. J. Youden Award in Interlaboratory Testing

Neil R. Ullman, Chair
W. J. Youden Award in Interlaboratory Testing

Dulal K. Bhaumik and **Robert D. Gibbons**
Center for Health Statistics, University of Illinois at Chicago

In recognition of their paper, "Confidence Regions for Random-Effects Calibration Curves with Heteroscedastic Errors," published in *Technometrics*, Vol. 47, No. 2 (May 2005): 223–230.

Edward C. Bryant Scholarship Award

Elizabeth A. Stasny, Chair
Edward C. Bryant Scholarship Committee

For outstanding graduate work in survey statistics at the University of Nebraska

Mario Callegaro
University of Nebraska

Gertrude M. Cox Scholarship in Statistics Award

Holly B. Shulman, Chair
Subcommittee to Committee on Women in Statistics and The Caucus for Women in Statistics

Mariel Finucane   **Sharon M. Lutz**
Smith College   University of Colorado at Boulder

To Mariel Finucane and Sharon Lutz for outstanding studies in a graduate statistical program

W. J. Youden

The W. J. Youden Award in Interlaboratory Testing was established in 1985 to recognize publications that make outstanding contributions to the design and/or analysis of interlaboratory tests, or describe ingenious approaches to the planning and evaluation of data from such tests.

Edward C. Bryant

Each year, an outstanding graduate student in survey statistics is awarded the Edward C. Bryant Scholarship to help support the student's graduate education. Westat, Inc., established the Edward C. Bryant Scholarship Trust Fund in 1995 to honor its cofounder and longtime leader. Under Dr. Bryant's leadership, Westat, an employee-owned statistical firm established in 1961, grew into what is now one of the world's leading statistical research firms with a full-time permanent staff of 800.

Gertrude M. Cox

Gertrude M. Cox was a pioneer for women in the statistics field. During a time when higher education was still considered a male pursuit, she earned a bachelor's degree in 1929, a master's in 1931, and an honorary PhD in 1958. Cox founded North Carolina State University's Department of Statistics in 1940 and headed the Statistics Research Division at the Research Triangle Institute from 1959 to 1964, bringing together statisticians from different universities.

Gertrude M. Cox Scholarship Award—*Honorable Mention*

Emily J. Berg
Iowa State University

Stacey Wood
St. Olaf College

Kristin Lennox
Texas A&M University

SPAIG Award

George W. Williams, Chair
Statistical Partnerships among Academe, Industry, and
Government Committee

The 2006 SPAIG Award is awarded to the:

Worcester Polytechnic Institute
and
National Center for Health Statistics

For a cooperative partnership between Worcester Polytechnic Institute (WPI) and the National Center for Health Statistics (NCHS); for WPI students participating in summer internships and thesis writing opportunities; for NCHS statisticians helping students understand the public health survey system; and for joint authorship of journal papers on many difficult NCHS survey data problems, garnering an impressive list of publications for the statistical profession. This award is in recognition of excellence within the SPAIG concept.

The American Statistical Association, through the SPAIG committee, established the SPAIG Award in 2002 to recognize outstanding partnerships established between academe, industry, and government organizations and to promote new partnerships. This award differs from other ASA awards by recognizing organizations, rather than individuals.

All awardees and histories of the awards can be found on the ASA web site at www.amstat.org/awards.

ASA Presidential Address

Sallie Keller-McNulty

"From Data to Policy: Scientific Excellence Is Our Future"

Sallie Keller-McNulty
Rice University

"Science, engineering, technology, and people must come together to support the growing complexity of today's global challenges, ranging from international security to space exploration. As scientists and engineers, it is essential that we develop the means to put our work into a decision context for policymakers. Scientific and technical progress requires interdisciplinary teams, as it is impossible for an individual to have the knowledge to solve many of today's problems. By the nature of our training, statisticians are well-poised to assume the role of science and technology integrator. To be successful, this will place statisticians closer to policy pressures and politics. This talk will focus on the growing expectations facing statistical sciences and how we, as statisticians, must take responsibility for separating the scientific method from the politics of the scientific process."

Presentation of Founders Award

Fritz J. Scheuren, Chair
Founders Award Committee

In 1988, the Board voted to establish the ASA Founders Award to recognize members who have rendered distinguished service to the Association. Typically, no more than two awards are granted annually, and the award does not have to be granted every year; however, when warranted, up to five awards may be given each year.

Because the "element of surprise" is our aim in presenting this award, we present last year's recipients for publication.

2005 Founders Award Winners

Linda H. Gage, Department of Finance, California State, for distinguished leadership as chair of Committee on Committees; for very effective and widespread participation on committees, a Chapter and a Section; for authorship of articles promoting the use of statistics in demography by a state government; and for continuing service as a role model for government statisticians.

Joan B. Garfield, University of Minnesota, for extraordinary contributions to the advancement of statistics education, through research into how students learn and through development of effective teaching methods; for leadership in statistics education through the ASA and other professional organizations; and for outstanding teaching and service to the profession.

Albert Madansky, The University of Chicago, for a half century of outstanding achievement in developing statistical methods and applications in business administration, working in both academia and industry; and for devoted service to the ASA as an editor, chair of the publications committee, president of the Business and Economics Section, and, most recently, as ASA treasurer.

Fellows 2006

M. Elizabeth Halloran, Chair
Committee on Fellows

The American Statistical Association announces the election of 60 new Fellows.

A superlative honor for more than 85 years, fellowship in the ASA recognizes outstanding professional contributions in the field of statistical science.

Christine M. Anderson-Cook
Technical Staff Member
Los Alamos National Laboratory
For research on the analysis of directional and cylindrical data and graphical assessment of designed experiments; as ambassador of statistics to engineering fields; and for service to the profession.

Anthony C. Atkinson
Emeritus Professor of Statistics
London School of Economics
For outstanding contributions to data analysis methods, including variable selection in regression and multivariate data, and methods of optimum experimental design and for service to the profession.

Stuart G. Baker
Mathematical Statistician
National Cancer Institute
For important methodological contributions to the analysis of cancer biomarkers and screening, surrogate endpoints, twin genetics, graphical methods, the paired availability design, causal inference and missing data problems.

Emery N. Brown
Professor of Computational Neuroscience, Health Sciences & Technology
Massachusetts Institute of Technology
For cross-disciplinary research in the statistics of neuronal spike-trains, medical neuroimaging, and circadian rhythms; for excellence as an ambassador between statistics and medical research; and for service to the profession.

Ngai-Hang Chan
Professor of Statistics
Chinese University of Hong Kong

For path-breaking research on unstable time series and time series applications to economics, finance, and oceanography; for leadership in statistical education programs in computational finance; and for editorial service to the profession.

Timothy A. DeRouen
Professor of Biostatistics
University of Washington

For international leadership in the field of oral health, including periodontal research, multicenter clinical trials, and training of students and scientists; and for academic administration.

Rick Chappell
Professor of Statistics
University of Wisconsin-Madison

For excellence in the application of statistical methodology to radiation biology and cancer oncology; for innovative statistical methods in the design of clinical trials and in survival analysis; and for service to the profession.

Marie Diener-West
Professor of Biostatistics
The John Hopkins University

For innovation and excellence in biostatistics education of health scientists and professionals; and for leadership in statistical applications in clinical research.

Domenic V. Cicchetti
Senior Research Scientist and Professor
Yale University

For contributions in behavioral and biomedical statistics, particularly assessment of psychometric properties of clinical diagnostic instruments; and for innovative methodologies for interexaminer reliability assessments.

Kim-Anh Do
Professor of Statistics
The University of Texas M.D. Anderson Cancer Center

For contributions to the development of resampling methods of data analysis and bioinformatics; for applications of statistics to cancer research and epidemiology; and for service to the profession.

Gauri S. Datta
Professor of Statistics
University of Georgia

For innovative contributions to the theory of small-area estimation, objective Bayesian inference, and asymptotic theory; and for substantive contributions to the methodology of statistics at the U.S. Census Bureau and the Bureau of Labor Statistics.

Nader B. Ebrahimi
Professor of Statistics
Northern Illinois University

For outstanding and innovative contributions to probability modeling, particularly in the areas of reliability and information theoretic statistics; and for leadership in promoting statistics in engineering and medical sciences.

Somnath Datta
Professor of Biostatistics and Bioinformatics
University of Louisville

For outstanding research in theoretical and applied statistics, including decision theory, bootstrap theory, survival analysis, and analysis of microarray data.

Sam Efromovich
Professor of Mathematical Sciences
University of Texas at Dallas

For fundamental and influential contributions to statistics, notably in the theory, methodology, and applications of adaptive nonparametric curve estimation; and for service to the profession.

Robyn M. Dawes
Charles J. Queenan, Jr.
University Professor of Psychology
Carnegie Mellon University

For creative research on statistics and rational decisionmaking; for contributions to the application of cognitive psychology to survey research; and for the promotion of careful statistical thinking in psychology and behavioral research.

Joseph C. Gardiner
Professor and Director of the Division of Biostatistics
Michigan State University

For development of statistical methodologies for cost-effectiveness analyses and health services research; for significant collaborations in public health, epidemiology, and health services research.

Virginia A. de Wolf
Consultant

For extensive and enthusiastic contributions to the profession, particularly in the areas of disclosure limitation and data access; for dissemination of novel disclosure limitation methods within the federal statistical agencies and the social science research community.

Marcia L. Gumpertz
Professor of Statistics
North Carolina State University

For outstanding teaching, research, and student mentoring; for excellence in statistical consulting and collaborations with researchers in many disciplines; and for service to the profession.

Bradley A. Hartlaub
Professor of Mathematics
Kenyon College

For innovative contributions to statistical education, including leadership in the AP Statistics® program, building of an outstanding undergraduate program, and training of secondary teachers; and for service to the profession.

Byron Jones
Senior Director
Pfizer Global Research and Development

For significant contributions to the practice of statistics; for important contributions to the design and analysis of cross-over trials; for excellence in education; and for service to the profession.

Mark S. Kaiser
Professor of Statistics
Iowa State University

For outstanding contributions in the areas of environmental and ecological statistics and of spatio-temporal modeling; and for service to the profession.

Sadanori Konishi
Professor of Statistics
Kyushu University

For outstanding contributions to statistical theory and methodology, especially in multivariate analysis, model selection, and nonlinear statistical modeling; and for editorial services.

Michael R. Kosorok
Professor and Chair of Biostatistics
The University of North Carolina at Chapel Hill

For theoretical and applied contributions to empirical processes and semiparametric methods, particularly in event-time analysis, clinical trials, and microarray analysis; and for statistical methods for cystic fibrosis research.

Paul H. Kvam
Professor of Statistics
Georgia Institute of Technology

For contributions to statistical theory and methodology in reliability, nonparametric inference, and ranked set sampling; for dedicated editorial service; and for excellence in statistical education.

Ta-Hsin Li
Research Staff Member
IBM T.J. Watson Research Center

For fundamental research at the interface of statistics and engineering, particularly in time series, signal and speech processing, and spectrum analysis; and for service to the profession.

Zhaohai Li
Professor of Statistics and Biostatistics
George Washington University

For contributions to statistical methods for genetic epidemiology and meta-analysis; for excellence in teaching and education, including international outreach; and for service to the profession.

Steven N. MacEachern
Professor of Statistics
The Ohio State University

For outstanding methodological contributions; for modeling and computational Bayesian nonparametric methods and ranked set sampling; for passionate and inspiring teaching and mentoring; and for service to the profession.

Donald Malec
Principal Researcher
U.S. Census Bureau

For improving statistical practice through methodological and collaborative research and consulting; and for important applied contributions in medical device clinical trials, small-area statistics, evaluation of census coverage, and nanoscale imaging.

Michael A. Martin
Associate Professor of Statistics
Australian National University

For notable contributions to research in bootstrap and resembling methods and in likelihood expansions; for outstanding teaching of statistics; and for editorial and other service to the profession.

Wendy L. Martinez
Program Officer
Probability and Statistics, Office of Naval Research

For the insightful enlargement of statistical programs critical to the Navy; for research and teaching excellence in computational statistics; and for service to the profession.

Daniel F. McCaffrey
Senior Statistician
RAND Corporation

For contributions to value-added modeling, variance estimation for clustered samples, and statistical applications in educational research and health services research; for editorial service; and for leadership of the RAND Statistics Group.

Melvin L. Moeschberger
Professor of Biostatistics
The Ohio State University

For pioneering work in competing risks and survival analysis; and for dedicated efforts in statistical consultation and collaboration.

June G. Morita
Associate Professor of Statistics
University of Washington

For contributions to statistical education in K–20, including innovative activity-based and case-based courses for teachers, faculty, and students; for excellence in statistical consulting; and for service to the profession.

Nalini Ravishanker
Professor of Statistics
University of Connecticut

For contributions to statistical methodology, particularly in the areas of time series and times-to-events analysis; for innovative interdisciplinary research; and for excellence in teaching and advising to promote the discipline.

Tapan K. Nayak
Professor of Statistics
George Washington University

For innovative contributions to statistical theory and methodology in diversity analysis, inference and prediction, Pittman Measures of Closeness, reliability, and sampling; for mentoring; and for service to the profession.

Deborah J. Rumsey
Statistics Education Specialist and Auxiliary Faculty
The Ohio State University

For outstanding leadership in statistics education, including innovative undergraduate programs and training graduate students to teach statistics; for outreach to nonstatisticians through publications and collaborations; and for service to the profession.

Jean D. Opsomer
Professor of Statistics
Iowa State University

For outstanding contributions to nonparametric statistics, in particular to nonparametric regression, bandwidth selection, and smoothing; for innovative methods in survey statistics; and for service to the profession.

Oliver Schabenberger
Senior Research Statistician
SAS Institute Inc.

For contributions to generalized linear mixed modeling, spatial statistics, and contemporary statistical modeling; and for service to the profession.

Sudhir Ranjan Paul
Professor of Statistics
University of Windsor

For outstanding contributions to statistical methodology, especially contingency tables, discrete generalized models, over-dispersion, zero-inflation, familial correlations, and toxicology; for excellence in teaching; and for service to the profession.

Xiaotong Shen
Professor of Statistics
University of Minnesota

For contributions to the likelihood theory of non/semi-parametric models and frequency properties of Bayes procedures; and for contributions to model selection, non-parametric hypothesis testing, and machine learning, as well as their innovative application to engineering problems.

Daniel Pena
Professor of Statistics
Universidad Carlos III de Madrid

For outstanding research in time series analysis, model diagnostics and robust methods, multivariate methods, and Bayesian statistics; for dedicated public and editorial service; and for developing statistics in Spain and Spanish-speaking countries.

Lianne Sheppard
Professor of Biostatistics
University of Washington

For contributions to observational studies and environmental occupational epidemiology; for thoughtful commentary in science-policy areas; and for commitment to bringing statistical methodology to elementary and high school education.

Nicholas G. Polson
Professor of Statistics and Econometrics
Graduate School of Business, University of Chicago

For remarkable and significant contributions in the development and application of Bayesian methods in mathematical finance and econometrics; and for sustained scholarship in statistical theory and methodology.

Debajyoti Sinha
Professor of Biostatistics
Medical University of South Carolina

For contributions to Bayesian survival analysis; for promotion of sound application of biostatistics to cancer research; and for service to the profession.

Jing Qin
Mathematical Statistician
National Institutes of Health

For seminal contributions to statistical methodology, especially the development and adaptation of empirical likelihood to applied problems.

Refik Soyer
Professor of Decision Sciences
George Washington University

For outstanding contributions to statistical methodology, especially in the application of Bayesian methodology to reliability and management science; and for editorial service.

Paul L. Speckman
Professor of Statistics
University of Missouri, Columbia

For fundamental contributions to nonparametric regression and to the fusion of Bayesian and frequentist theory; for applications to modeling of transport demand and air pollution; and for excellence in teaching.

David A. van Dyk
Professor of Statistics
University of California, Irvine

For innovative statistical methodology, especially in astrostatistics, statistical computing, and problems involving missing data; and for teaching, student advising, and editorial service.

F. Michael Speed
Professor of Statistics
Texas A&M University

For fundamental contributions to statistical theory and methodology of linear models; for consulting services to diverse disciplines, including wildlife and fisheries; and for leadership in the use of technology in classroom and distance education.

Marina Vannucci
Professor of Statistics
Texas A&M University

For fundamental contributions to wavelet-based statistical modeling, the theory and practice of Bayesian variable selection, and bioinformatics; and for mentoring of young researchers.

David S. Stoffer
Professor of Statistics
University of Pittsburgh

For seminal contributions to the theory and applications of categorical and longitudinal time series analysis, including Walsh-Fourier analysis and the spectral envelope; and for excellence in teaching and consultation.

Sylvan Wallenstein
Associate Professor of Community Medicine
Mount Sinai School of Medicine

For influential research in scan statistics, clustering, and cross-over design; for consulting and collaborative research in biostatistics, medicine, and epidemiology; and for service to the profession.

Robert L. Strawderman
Professor of Biological Statistics
Cornell University

For outstanding contributions to statistical methodology, notably in the areas failure time and recurrent event data and small sample inference; for excellence in collaborative research and teaching; and for editorial service.

Yazhen Wang
Professor of Statistics
University of Connecticut

For outstanding contributions to the GARCH model and diffusion, analysis of financial data, order-restricted inferences, and wavelet-based statistical methods and theory for change-point and long-memory models; and for service to the profession.

Jianguo (Tony) Sun
Associate Professor of Statistics
University of Missouri, Columbia

For contributions to the analysis of interval-censored failure time data, doubly-censored failure time data, and panel count data; for innovative statistical methods in chemometrics; and for service to the profession.

Yuedong Wang
Professor of Statistics
University of California, Santa Barbara

For outstanding contributions to nonparametric regression and mixed-effects models; for innovative statistical methods for analyzing physiological and genetic data and the associated software.

Brajendra C. Sutradhar
Professor of Statistics
Memorial University of Newfoundland

For outstanding contributions to multivariate statistics, estimation theory, and the analysis of longitudinal and clustered data; for applications to important societal problems; and for service to the profession.

Jon A. Wellner
Professor of Statistics and Biostatistics
University of Washington

For outstanding contributions to the theory of empirical processes and semiparametric inference; for exemplary teaching and mentoring of students in statistics and biostatistics; and for editorial and other service to the profession.

David M. Thissen
Professor of Quantitative Psychology
The University of North Carolina at Chapel Hill

For algorithms for efficient estimation of parameters in item response theory models; for contributions to individualized models of growth; for leadership as an educator in quantitative psychology; and for service to the profession.

Hongyu Zhao
Ira V. Hiscock Associate Professor
Yale University, School of Medicine

For fundamental contributions to statistical genomics, genetic epidemiology, and computational biology; and for editorial service.

Committee of Presidents of Statistical Societies

Awards

2006

Wednesday, August 9, 2006, 4:00 p.m.
Washington State Convention & Trade Center, Ballroom 6ABC

Elizabeth L. Scott Award

This award is presented biennially (even years) to recognize an individual who exemplifies the contributions of Elizabeth L. Scott's lifelong efforts to further the careers of women in academia by developing programs to encourage women to seek careers in statistics, successfully mentoring women students or new researchers, working to identify gender-based inequities in employment, and/or serving in a variety of capacities as a role model. This award, first awarded in 1992, consists of a plaque and cash award.

2006 Committee: *Marcia L. Gumpertz (Chair, ENAR), Peter Guttorp (COPSS), Julie C. Horrocks (SSC), Joan F. Hilton (WNAR), Judith Rich O'Fallon (ASA), and Karen Kafadar (IMS)*

Past Recipients: *Gladys H. Reynolds, 2004; Janet L. Norwood, 2002; Nancy Flournoy, 2000; Ingram Olkin, 1998; Grace Wahba, 1996; Donna Brogan, 1994; F. N. David, 1992*

Presidents' Award

The Committee of Presidents of Statistical Societies (COPSS) sponsors and presents the COPSS Presidents' Award annually to a young member of one of the participating societies in recognition of outstanding contributions to the profession of statistics. The award consists of a certificate and cash award and is presented annually at a joint meeting of two or more sponsoring societies.

2006 Committee: *Jessica M. Utts (Chair, WNAR), Nancy E. Heckman (SSC), John (Jack) D. Kalbfleisch (ENAR), W. Michael O'Fallon (ASA), Nancy Reid (IMS), and Stephen B. Vardeman (COPSS)*

Past 10 Recipients: *Mark J. van der Laan, 2005; Michael A. Newton, 2004; Andrew Gelman, 2003; Jun Liu, 2002; Xiao-Li Meng, 2001; Jianqing Fan, 2000; Larry Wasserman, 1999; Pascal Massart, 1998; Kathryn Roeder, 1997; Robert Tibshirani, 1996; Iain M. Johnstone, 1995*

Elizabeth L. Scott

An astronomer by training, she began to work with Jerzy Neyman in the Statistical Laboratory at Berkeley during World War II and had a long, distinguished career as a professor at Berkeley. She worked in a variety of areas other than astronomy, including experimental design, distribution theory, and medical statistics. Later in her career, Scott became involved with salary inequities between men and women in academia and published several papers on the topic. In addition to her numerous honors and awards, she was president of the Institute of Mathematical Statistics and the Bernoulli Society, vice president of the American Statistical Association and International Statistical Institute, and elected an honorary fellow of the Royal Statistical Society and a fellow of the American Association for the Advancement of Science. In recognition of her lifelong efforts to further women's careers, this award is granted to an individual who has helped foster opportunities in statistics for women.

Committee of Presidents of Statistical Societies

Committee of Presidents of Statistical Societies
Linda J. Young, chair • Karen J. Bandeen-Roche, secretary/treasurer

❧ ❧ ❧

Past Presidents
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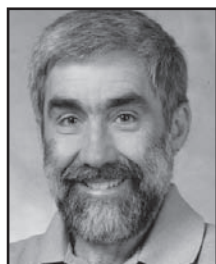
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Acknowledgements

Committee of Presidents of Statistical Societies
Fisher Lecture

Terence P. Speed

Wednesday, August 9, 2006, 4:20 p.m.
Washington State Convention & Trade Center, Ballroom 6ABC

COPSS established the R. A. Fisher Lectureship in 1963 to honor the contributions of Sir Ronald Aylmer Fisher and the work of a present-day statistician. The Fisher Lectureship recognizes the importance of statistical methods for scientific investigations, and the list of past Fisher lecturers well reflects the prestige COPSS and its member societies place on this award. The lecture is to be broadly based and emphasize aspects of statistics and probability that are closely related to scientific collection and interpretation of data, which are areas in which Fisher made outstanding contributions. It is anticipated that this lecture will be published in one of the COPSS society journals. Since 1982, COPSS has added a cash prize and a certificate to the Lectureship.

Terence (Terry) P. Speed
University of California, Berkeley

"Recombination and Linkage"

Genetical recombination is a fundamental biological process, taking place in diploid cells during the formation of haploid gametes. The phenomenon of linkage was discovered in the second decade of the 20th century, and our understanding of its biological basis, recombination, has been developing ever since. R. A. Fisher made several contributions to the theory and practice of linkage, and to the stochastic modeling of recombination. In this lecture, I'll summarize the development of such models from Fisher's to the present. The methods used range from renewal processes to stochastic point processes to Markov and hidden Markov chains, and the results are elegant models that don't quite fit the data. Interestingly, this has only marginal impact on their use.

2006 Committee: Naisyin Wang (chair, ENAR), Louis-Paul Rivest (SSC), Elizabeth Thompson (COPSS), Michael Newton (IMS), and Weng Kee Wong (WNAR)

Past 10 lecturers: R. Dennis Cook, 2005; Donald B. Rubin, 2004; Adrian F. M. Smith, 2003; Raymond J. Carroll, 2002; James O. Berger, 2001; Ingram Olkin, 2000; Jack D. Kalbfleisch, 1999; Arthur P. Dempster, 1998; Colin L. Mallows, 1997; Bradley Efron, 1996

R. A. Fisher

Sir Ronald Aylmer Fisher is considered one of the founders of modern statistics for his many contributions to the field. He was led to statistics while at Cambridge, where he was fascinated by the theory of errors. Fisher earned his bachelor's degree in astronomy in 1912 and taught mathematics until 1919. He was elected Fellow of the Royal Statistical Society in 1929 and awarded the Royal Medal of the Society in 1938; in 1948, he received the Darwin Medal of the Society. In 1955, Fisher was honored again with the Copley Medal of the Royal Society. His published works include *Statistical Methods for Research Workers* (1925), *Genetical Theory of Natural Selection* (1930), and *The Design of Experiments* (1935). All told, he published approximately one paper every two months for half a century, almost all of which broke new ground.

ASA Awards

Section on Bayesian Statistical Science
Student Paper Awards
- ★ **Kristen M. Foley,** North Carolina State University
- ★ **Lovely Goyal,** North Carolina State University
- ★ **Antonello Loddo,** University of Missouri at Columbia
- ★ **Taeyoung Park,** Harvard University
- ★ **Babak Shahbaba,** University of Toronto
- ★ **Meihua Wang,** University of Pittsburgh
- ★ **Gentry White,** University of Missouri at Columbia
- ★ **Haiyan Wu,** Emory University
- ★ **Qingzhao Yu,** The Ohio State University
- ★ **Yan Zheng,** University of Minnesota

Biometrics Section
David P. Byar Young Investigator Award
- ★ **Sunduz Keles,** University of Wisconsin-Madison

David P. Byar Young Investigator
- ★ **Xiaomin Lu,** North Carolina State University

Biopharmaceutical Section
Student Paper Award
- ★ **Hongying Dai,** University of Kentucky

Student Paper Award Honorable Mention
- ★ **David Lewin**, University of Pennsylvania
- ★ **Melissa Spann,** Baylor University

Statistical Computing Section
John M. Chambers Statistical Software Award
- ★ **Hadley A. Wickham,** Iowa State University

2006 Best Contributed Presentation
- ★ **Heather Turner,** The University of Warwick

Statistical Computing Section and Statistical Graphics Section
Student Paper Awards
- ★ **Youjuan Li,** University of Michigan
- ★ **Fan Lu,** University of Wisconsin-Madison
- ★ **Rebecca A. Nugent,** University of Washington
- ★ **Phillip T. Reiss,** Columbia University

Statistics in Defense & National Security Section
- ★ **Ernest Seglie,** Department of Defense, Office of Test & Evaluation
- ★ **Nancy L. Spruill,** U.S. Office of the Secretary of Defense

Statistics in Epidemiology Section
Young Investigator Award
- ★ **Holly Janes,** The Johns Hopkins University

Travel Award
- ★ **Huichao Chen,** Emory University
- ★ **Xiaoyi Gao,** North Carolina State University
- ★ **Yun Lu,** The Johns Hopkins University
- ★ **Qing Pan,** University of Michigan
- ★ **Michael Pencina,** Boston University
- ★ **Noelle I. Samia,** University of Iowa
- ★ **Tyler John Vanderweele,** Harvard School of Public Health
- ★ **Chong Wang,** Cornell University
- ★ **Yue Yin,** The Johns Hopkins University

Government Statistics Section
Patricia J. Doyle Service Award
- ★ **Robert Lussier,** Statistics Canada

Government Statistics Section/ Social StatisticsSection/ Washington Statistical Society
Roger Herriot Award for Innovation in FedStat
- ★ **Nathaniel Schenker,** NCHS

Section on Health Policy Statistics
Best Student Paper Award, 2006
- ★ **Phillip Dinh,** University of Washington
- ★ **Ulysses A. Diva, Jr.,** University of Connecticut
- ★ **Haijun Ma,** University of Minnesota
- ★ **Kate Stewart,** Harvard University
- ★ **Justin W. Timbie,** Harvard Medical School

Section ★ Chapter ★ Education ★ Other

Section on Physical and Engineering Sciences
Outstanding Presentation Award
★ **Russell S. Stocker,** Mississippi State University

Runner-up Outstanding Presentation Award
★ **Robert W. Mee,** University of Tennessee at Knoxville

Honorable Mentions:
★ **Christine M. Anderson-Cook,** Los Alamos National Laboratory
★ **John J. Borkowski,** Montana State University at Bozeman
★ **Ulrike Genschel,** Iowa State University
★ **William Q. Meeker,** Iowa State University
★ **Wayne B. Nelson,** Wayne Nelson Stat Consulting

Section on Quality and Productivity
Mary G. Natrella Scholarship Award
★ **Tirthankar Dasgupta,** Georgia Institute of Technology
★ **Shilpa Gupta,** Arizona State University

Section on Risk Analysis
ASA Section on Risk Analysis Award
★ **Bernhard Harris,** University of Wisconsin

Best Contributed Paper for JSM 2005
★ **Emmanuel Yashchin,** IBM Corporation

Student Travel Awards for JSM 2005
★ **Afisi Segun Ismaila,** McMaster University
★ **Cheng Yong Tang,** Iowa State University

Social Statistics Section/Section on Government Statistics/Survey Research Methods Section
Student Paper Competition
★ **Courtney Kies-Bokenkroger,** Iowa State University
★ **Yu Wu,** Iowa State University
★ **Santanu Pramanik,** University of Maryland
★ **Leela Aertker,** The University of North Carolina at Chapel Hill
★ **Jessica Kohlschmidt,** The Ohio State University
★ **Xiaojian Xu,** University of Alberta
★ **Satkartar Kinney,** Duke University
★ **Chengyong Tang,** Iowa State University
★ **Xiaoxi Li,** Iowa State University

Washington Statistical Society/National Association for Business Economics/Business and Economics Statistics Section
Julius Shiskin Award
★ **J. Steven Landefeld**

2006 Chapter Service Recognition Awards
★ **Robert 'Funhog' Sutherland** — Alaska Chapter
★ **Jeffrey R. Wilson** — Arizona Chapter
★ **John P. Holcomb, Jr.** — Cleveland Chapter
★ **Matt J. Pocernich** — Colorado-Wyoming Chapter
★ **Daniel T. Voss** — Dayton Chapter
★ **Marta S. Mendiondo** — Kentucky Chapter
★ **Rodney Sparapani** — Milwaukee Chapter
★ **J. Leroy Folks** — Oklahoma Chapter
★ **Virginia M. Lesser** — Oregon Chapter
★ **Paul Mange Johansen** — Philadelphia Chapter
★ **Shaw K. Chen** — Rhode Island Chapter
★ **Kathleen Gallagher** — Sacramento Statistical Association
★ **Michael D. Lock** — San Francisco Bay Area Chapter
★ **Sarah J. Kogut** — Twin Cities Chapter

2006 Excellence-in-CE Course Recognition Awards
Multiple Comparisons and Multiple Tests
★ **Peter H. Westfall,** Texas Tech University

Analysis of Clinical Trials: Theory and Applications
★ **Christy Chuang-Stein,** Pfizer, Inc.
★ **Alex Dmitrienko,** Eli Lilly and Company
★ **Geert Molenberghs,** Universiteit Hasselt

2007 Waksberg Award for Outstanding Contributions in the Theory and Practice of Survey Methodology
★ **Carl-Erik Särndal,** Université de Montréal

2005 Excellence in Statistical Reporting Award (EISRA)
★ **John Berry,** *Bloomberg News*

JSM *Partners*

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