



# Plenary & Awards Sessions

American Statistical Association  
Committee of Presidents of Statistical Societies  
Institute of Mathematical Statistics

presented at the  
**165<sup>th</sup> Annual Meeting**  
Minneapolis, Minnesota

*Sunday 4 p.m.*  
**Neyman Lecture**

*August 7, 2005*

Minneapolis Convention Center, Room 200J

*Monday 4 p.m.*  
**ASA President's Invited Address**

*August 8, 2005*

Minneapolis Convention Center, Ballroom A

*Monday, 8 p.m.*

**IMS Presidential Address and Awards**

*August 8, 2005*

Minneapolis Convention Center, Room 200ABC

IMS Presidential Address

Carver Medal

IMS Fellows

Tweedie New Research Award

Laha Travel Award

*Tuesday, 4 p.m.*

**Deming Lecture**

*August 9, 2005*

Minneapolis Convention Center, Ballroom A

*Tuesday, 4 p.m.*

**Wald Lecture I**

*August 9, 2005*

Minneapolis Convention Center, Room 102A

*Tuesday, 8 p.m.*

**ASA Presidential Address and Awards**

*August 9, 2005*

Minneapolis Convention Center, Ballroom A

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, 10:30 a.m.*

**Wald Lecture II**

*August 10, 2005*

Minneapolis Convention Center, Room 211B

*Wednesday, 4 p.m.*

**COPSS Awards and Fisher Lecture**

*August 10, 2005*

Minneapolis Convention Center, Ballroom A

Florence Nightingale David Award

Presidents' Award

George W. Snedecor Award

Fisher Lectureship

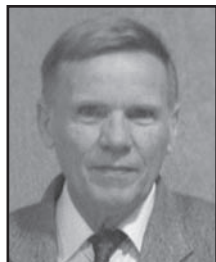
*Thursday, 10:30 a.m.*

**Wald Lecture III**

*August 11, 2005*

Minneapolis Convention Center, Room L100C

# Neyman Lecture



David R. Brillinger

*Sunday, August 7, 2005, 4 p.m.*  
Minneapolis Convention Center, Room 200J

## *"Dynamic Indeterminism in Science"*

**David R. Brillinger**  
University of California, Berkeley

In a 1960 article, Jerzy Neyman wrote: "Currently in the period of dynamic indeterminism in science, there is hardly a serious piece of research which, if treated realistically, does not involve operations on stochastic processes. The time has arrived for the theory of stochastic processes to become an item of usual equipment of every applied statistician." This talk will review some of the applications Professor Neyman anticipated.

Organizer: David Madigan, Rutgers University  
Chair: Peter Guttorp, University of Washington

# 2005

## A Brief Look at Dr. Neyman

Jerzy Neyman is considered one of the founders of modern statistics. He made significant contributions in probability theory, testing hypothesis, confidence intervals, generalized chi-square, and other areas of mathematical



statistics—work that would have an impact on fields ranging from astronomy and agriculture, to biology and weather, to social insurance. Born Jerzy Splawa-Neyman in Bendery, Russia, in 1894, he received an early education at home, becoming proficient in several languages. He studied physics and mathematics at the University of Kharkiv, now in Ukraine. In 1921, at age 27, Neyman was forced to move to Poland, and then to London in 1924. There, he studied under Karl Pearson and worked with Egon Pearson and R. A. Fisher. The Neyman-Pearson theory of estimation and hypothesis testing, now generally accepted but famously disputed by Fisher, found applications throughout mathematics. In the 1930s, Neyman also worked on survey sampling, "contagious" distributions, and spurious correlations. In 1937, he accepted a position at the University of California, Berkeley, where he established the Statistical Laboratory and, in 1955, the Department of Statistics. He organized the Berkeley Symposia and nurtured many students. Neyman received numerous awards and degrees for his work, including the Guy Medal of the Royal Statistical Society in 1966 and the National Medal of Science from President Johnson in January 1969. He died in 1981.

# ASA President's Invited Address 2005



Roderick Joseph Little

*Monday, August 8, 2005, 4:00 p.m.*

**Minneapolis Convention Center, Ballroom A**

## A Brief Look at Dr. Little

Rod Little is Richard D. Remington Collegiate Professor of Biostatistics and Professor of Statistics at the University of Michigan. He has more than 150 publications, notably on methods for the analysis of data with missing values and model-based survey inference and the application of statistics to diverse scientific areas, including medicine, demography, economics, psychiatry, aging, and the environment. Dr. Little chaired the Biostatistics Department at Michigan from 1993 to 2001. Prior to that, he was Professor in the Department of Biomathematics at the University of California, Los Angeles; Research Fellow at the U.S. Bureau of the Census (1982–1983); Expert Consultant at the U.S. Environmental Protection Agency; Scientific Associate at the World Fertility Survey; and Research Associate (Assistant Professor) in the Department of Statistics, The University of Chicago. Active editorially, he was Coordinating and Applications Editor of the *Journal of the American Statistical Association* from 1992–1994. Since his fellowship at the U.S. Census Bureau, he has been interested in federal statistical issues, such as the census undercount, and has served as a member of the Committee on National Statistics and a number of other National Research Council committees.

## *"A Bayes/Frequentist Roadmap"*

**Roderick Joseph Little**  
**University of Michigan**

The lack of an agreed inferential basis for statistics makes life "interesting" for academic statisticians, but at the price of negative implications for the practice and status of statistics in industry, science, and government. Our discipline will only mature when we come to a basic agreement about how to apply statistics to real problems. Some illustrations and implications of the existing Bayes/frequentist rift, specific and general, will be offered in areas with which the speaker is familiar, including survey inference and missing data. Strengths and weaknesses of the frequentist and Bayes paradigms will be outlined.

Can the rift be breached? In this talk, a roadmap for a possible frequentist/Bayes compromise will be outlined based on the work of Box, Rubin, and others. The compromise is sometimes called "calibrated Bayes," and asserts that inferences should be Bayesian and model-based, but model formation and assessment can and should involve frequentist ideas. Some implications of this proposed compromise for the future teaching and practice of statistics will be offered.



# IMS Presidential Address Awards



Louis H. Y. Chen

*"The Poisson Paradigm"*

**Louis H. Y. Chen**

**Institute for Mathematical Sciences,  
National University of Singapore**

While the Central Limit Theorem has enjoyed a long and glorious history, of no less importance is the Poisson Limit Theorem. I will give a brief historical account of the developments of the latter and provide examples and theoretical explanations of the pervasiveness of the Poisson distribution in probability and statistics, including applications to random graphs and bioinformatics.



## Harry C. Carver Award

*Xuming He, Chair*  
Committee on the Carver Medal

Professor Utts was treasurer of the IMS from 1988-1994. During her term of service, she guided the organization through major staff transitions, the establishment of a new journal, and the modernization of its business practices. She also was instrumental in the establishment of a gift membership program for colleagues in developing countries and a travel award program for new researchers. For this and numerous other contributions to the IMS, Professor Utts is an extremely worthy recipient of the Harry C. Carver Medal for exceptional service to the Institute of Mathematical Statistics.



**Jessica M. Utts**

University of California, Davis

## Tweedie New Research Award

*Xuming He, Chair*  
Committee Travel Awards

In addition to being one of the world's leading experts on positive definite functions, Professor Gneiting also has worked on assessment of meteorological models—including probabilistic forecast assessment—developed new models for spatiotemporal nonseparable covariance functions, and developed tools for simulating long-term memory processes. He is combining extremely deep theory with very practical applied work.



**Tilmann Gneiting**  
University of Washington

# 2005

## A Brief Look at Harry C. Carver

The Carver Medal was created by the IMS in honor of Harry C. Carver, founding editor of the *Annals of Mathematical Statistics* and one of the founders of the IMS. The medal is for exceptional service, specifically to the IMS, and is open to any member of the IMS who has not previously been elected President. Not more than one award shall be made each year.



## A Brief Look at Richard Lewis Tweedie

Richard Lewis Tweedie played a significant role throughout his professional career while mentoring young colleagues at work and through professional society activities. With funds donated by his friends and family, IMS is pleased to announce the creation of the Tweedie New Researcher Award. This award provides funds for travel to present the Tweedie New Researcher Invited Lecture at the IMS New Researchers Conference.



# Fellows 2005 IMS

Per Mykland, Chair  
*IMS Committee on Fellows*

The Institute of Mathematical  
Statistics announces the  
election of **15**  
**new Fellows.**

Fellowship in the IMS  
recognizes distinction in  
research in statistics or  
probability by publication of  
independent work of merit.

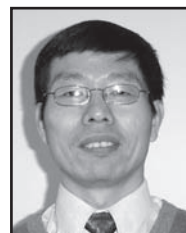


**Probal Chaudhuri**  
Indian Statistical Institute

For contributions to nonparametric quantile estimation, multivariate location estimation, the scale-space approach to nonparametric smoothing, and classification.

**Jiahua Chen**  
University of Waterloo

For outstanding contributions to research in the areas of mixture models, experimental design, sample surveys, and empirical likelihood; for exceptional contributions to mentorship and education of graduate students; and for notable service to the statistical profession in Canada and beyond.



**Michael I. Jordan**  
University of California, Berkeley

For contributions to graphical models and machine learning.

**Mei-Ling Ting Lee**  
Harvard University

For significant theoretical contributions to distribution theory; for development of innovative statistical models and methodology for survival data analysis; for valuable contributions to biostatistics and the analysis of medical data in areas of application ranging from microbiology to occupational health; for path-breaking work on statistical models and methods for microarray data analysis; for vision and leadership in founding the journal *Lifetime Data Analysis* and monumental work as its Editor-in-Chief; and for professional service to mathematical statistics.



**Kerrie Lee Mengersen**  
**Queensland University of Technology**

For excellence in research and consulting in environmental and genetic statistics; and for her role in fostering new statistical vocations in Australia.



**Jay S. Rosen**  
**College of Staten Island,  
The City University of New York**

For a detailed and difficult study of the sample path properties of Brownian motion, random walks, stable processes, and Markov processes in general.



**Thomas Mikosch**  
**University of Copenhagen**

For outstanding research in probability and statistics; and for outstanding service to the professional community.



**Jeffrey S. Rosenthal**  
**University of Toronto**

For outstanding contributions to the theory and practice of Markov chain Monte Carlo algorithms, to the study of geometric ergodicity, and coupling algorithms; and for original contributions to substantive applied problems.



**Deborah A. Nolan**  
**University of California, Berkeley**

For distinguished contributions to the study and practice of the teaching of statistics, integrating theory and practice in a seamless way; and for basic research in nonparametric statistics.

*picture  
unavailable*

**Dongchu Sun**  
**University of Missouri-Columbia**

For pioneering research in Bayesian methodology, especially the development of objective priors; for contributions to Bayesian applications, including spatial modeling, disease mapping, multivariate time series analysis, and wildlife models; and for leadership in the objective Bayesian community.



**David Oakes**  
**University of Rochester Medical Center**

For extensive and fundamental contributions to the theory, exposition, and creative application of survival analysis and dependence modeling; and for dedicated editorial, educational, and organizational services to the profession.



**Jiayang Sun**  
**Case Western Reserve University**

For important contributions to projection pursuit, confidence bands, biased sampling, and bump-hunting; for innovative interdisciplinary contributions; and for valuable service to the profession.



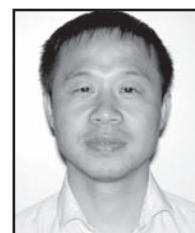
**Byeong Uk Park**  
**Seoul National University**

For seminal work in bandwidth selection for kernel smoothing, which led to a large, fruitful, and well-cited body of work in that area; for his leadership research in semiparametrics, smoothing, additive and single index models, stochastic frontier estimation, and asymptotic analysis in general; for a leading role in Korean statistics, including valued editorial work; and for strong mentoring of, and inspiration of, a generation of Korean statisticians.



**Yazhen Wang**  
**University of Connecticut**

For fundamental contributions to the relationship of GARCH model and diffusion, wavelet methodology for change-point, nonparametric regression with long-memory data, and analyzing stochastic processes; and for substantial and original contributions to order-restricted inference.



**Peter Charles Bonest Phillips**  
**Yale University**

For extensive and influential contributions to time series analysis, especially unit root series; for considerably developing finite sample theory and higher-order asymptotic theory; and for founding and editing for 20 years a journal, *Econometric Theory*, on the interface between econometrics and statistics.



All awardees and histories of the awards can be found on the IMS web site at  
[www.imstat.org/awards](http://www.imstat.org/awards)

# Laha 2005 Travel Award

Xuming He, Chair  
Committee on Travel Awards

## A Brief Look at Radha Govind Laha

Professor Laha was an engaging teacher and expositor, much appreciated by his colleagues and students. He bequeathed a percentage of his estate to the Institute of Mathematical Statistics. In 2001, the IMS Council unanimously agreed to use these funds to support travel for students and new researchers to IMS meetings. These awards are named the Laha Travel Awards.



**Fadoua Balabdaoui**  
Georg-August-Universität, Göttingen



**Rolando De la Cruz-Mesía**  
Pontificia Universidad Católica de Chile



**Taeryon Choi**  
Carnegie Mellon University



**Jesse C. Frey**  
The Ohio State University

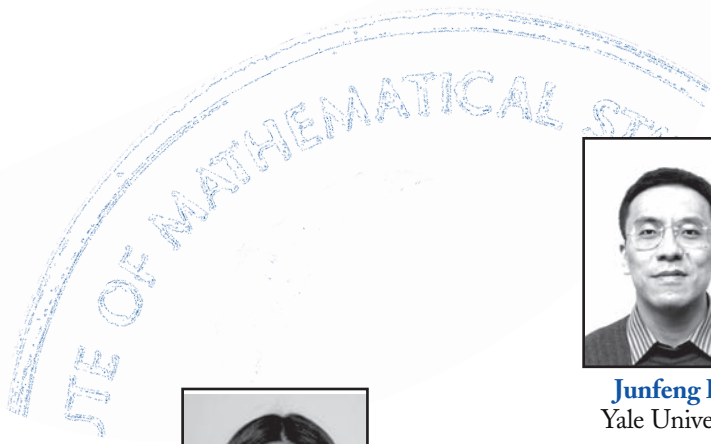


**Catherine M. Crespi**  
University of California, Los Angeles



**Arka Prasanna Ghosh**  
The University of North Carolina  
at Chapel Hill





**Junfeng Liu**  
Yale University



**Hongwen Guo**  
Michigan State University



**Marloes H. Maathuis**  
University of Washington



**Woncheol Jang**  
Duke University



**Abhyuday Mandal**  
Georgia Institute of  
Technology



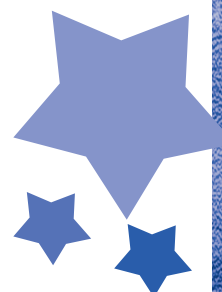
**Jun Li**  
Rutgers University



**Daniel Merl**  
University of California, Santa Cruz



**Yingxing Li**  
The University of Hong Kong





**Zhiguang Qian**

Georgia Institute of Technology



**Jing Wang**

Michigan State University



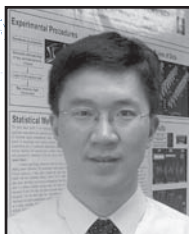
**Jin Xu**

University of California, Riverside



**Liansheng Tang**

Southern Methodist University



**Xiaofeng Wang**

Case Western Reserve University



**Xinyi Xu**

University of Pennsylvania



**Liping Tong**

The University of Chicago



**Peng Xiao**

The University of Texas at Dallas



**Lan Xue**

Michigan State University



**Olga Vitek**

Purdue University



**Haiyan Xu**

The Ohio State University



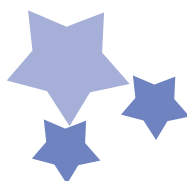
**Xu Yan**

U.S. Food and Drug Administration



**Jie Yang**

The University of Chicago



**Tingting Yi**

Michigan State University



# Wald Lecture

# 2005



S. R. Srinivasa Varadhan

*Wald I, Tuesday, August 9, 2005, 4:00 p.m.*  
Minneapolis Convention Center, 102A

*Wald II, Wednesday, August 10, 2005, 10:30 a.m.*  
Minneapolis Convention Center, 211B

*Wald III, Thursday, August 11, 2005, 10:30 a.m.*  
Minneapolis Convention Center, L100C

## *"Large Deviations in Different Contexts"*

**S. R. Srinivasa Varadhan**  
Courant Institute of Mathematical Sciences,  
New York University

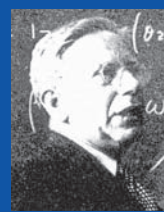
**Lecture 1.** We will review aspects of the general theory of large deviations and examine examples of stochastic differential equations with small noise, large time behavior of Markov processes, deviations from ergodic theorems, and the role of entropy.

**Lecture 2.** We will review the application of large deviations to scaling limits. Both diffusive and hyperbolic scaling will be considered and examples from interacting particle systems—such as zero-range and simple-exclusion processes—will be examined.

**Lecture 3.** We will explore large deviations for random walks and diffusions in random media by examining the difference between quenched and the averaged cases. We also will explore the connection to homogenization of random Hamilton-Jacobi-Bellman variational equations.

Organizer: David Madigan, Rutgers University  
Chair: Steven Lalley, The University of Chicago  
Chair: Sunder Sethuraman, Iowa State University  
Chair: Michael Pitt, University of Warwick, U.K.

## A Brief Look at Dr. Wald



Abraham Wald, best known for his work on statistical decision theory and sequential analysis, was born in 1902 in what was then part of Hungary and is now Rumania. He was educated well at home by his parents and family (as a Jew, he could not attend school as required on Saturdays). In 1927, he entered the University of Vienna and earned his doctorate in 1931. He was an active participant of the Vienna Colloquium, as were Von Neumann and Morgenstern. When the colloquium was disbanded in 1938, he accepted an invitation by the Cowles Commission to work in the United States, a move that probably saved his life: Almost all his family died in the Nazi death camps. Wald taught statistics at Columbia University: His students remember him as a superb teacher of unrivalled clarity and precision. However, his career was cut short by a plane crash during a lecture tour of India when he was just 48. During his short life, Wald made major contributions to statistics, geometry, econometrics, and mathematical economics, publishing more than 90 books and papers.

# 2005 Deming Lecture



A. Blanton Godfrey

## A Brief Look at Dr. Deming

When W. Edwards Deming joined the American Statistical Association (ASA) 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, Dr. Deming's incisive genius and personal style touched many of our members in ways reflective of the wide range and depth of his interests. To the Association, he remained an interested and active member, evidenced by his many generous gifts and by the notes frequently received with his decided opinions succinctly stated.

Dr. 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 for his subsequent quality management seminars, which he led with typical vigor until his death at 93. More than 100,000 participants attended his four-day seminars over his long and illustrious career.

At the 1989 ASA Sesquicentennial, Dr. 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 for the dedication of his portrait and ASA's Deming Library, which also displays a small 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, Dr. Deming gave the Presidential Invited Address to a captivated audience of more than 1,500.

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

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

*Tuesday, August 9, 2005, 4:00 p.m.*

**Minneapolis Convention Center, Ballroom A**

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

To A. Blanton Godfrey who, through teaching, consulting, research, and training consistent with Dr. Deming's philosophy, has furthered the practice of statistics and quality and contributed significantly to many achievements in science, technology, industry, and academia.

## Introduction and Acknowledgment

of Support ..... Fred L. Hulting, Vice Chair  
Deming Lectureship Committee

Remembering Dr. Deming ..... Fred L. Hulting

Introduction of Speaker ..... Fred L. Hulting

Presentation of Plaque ..... Fritz J. Scheuren, ASA President

## The 2005 Deming Lecture *"Statistics, Quality, and Organizational Excellence"*

A. Blanton Godfrey  
North Carolina State University

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

## 2005 Deming lectureship Committee

*Randall K. Spoeri, Chair; Cynthia Z. F. Clark; Karen A. Copeland; Lorraine Denby; Fred L. Hulting; Laura A. Knapp; Jane-Ling Wang; William H. Woodall; and Jeff Wu*

## 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*

Organizers: Deming Lectureship Committee  
Chair: Randall K. Spoeri, Cerner Corporation



# ASA Awards

Bradley Efron, Chair, ASA  
President 2004

Tuesday, August 9, 2005, 8:00 p.m.  
Minneapolis Convention Center, Ballroom A

## Certificate of Appreciation for Retiring Editors

T&M Editor, *Journal of the American Statistical Association*, 2003–2005  
★ **Francisco J. Samaniego**, University of California, Davis

Editor, Amstat Online, 2003–2005  
★ **Michael Conlon**, University of Florida

Editor, *The American Statistician*, 2003–2005  
★ **James H. Albert**, Bowling Green State University



## Samuel S. Wilks Award

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

In recognition of Professor Little's outstanding and fundamental contributions to statistical research and practice.



**Roderick Joseph Little**  
University of Michigan

## Gottfried E. Noether Awards

*Regina Y. Liu., Chair*  
Noether Awards Committee



**Emanuel Parzen**  
Texas A&M University

### Noether Senior Scholar Award

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



**Jeffrey S. Morris**  
The University of Texas  
M. D. Anderson Cancer Center

### Noether Young Researcher Award

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

# 2005

## *A Brief Look at the Award's Historical Honorees*

### Samuel S. Wilks



The award, one of ASA's 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

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 Chemometrics

No Award in 2005

## Award of Outstanding Statistical Application

*Karen Kafadar, Chair*

Committee on Award of Outstanding Statistical Application

*Established in 1986, the award recognizes a paper that is an outstanding application of statistics in any substantive field.*



**Christopher R. Genovese**  
Carnegie Mellon University



**Christopher J. Miller**  
National Optical Astronomical  
Observatory, Cerro Tololo  
Inter-American Observatory, Chili



**Robert C. Nichol**  
Institute of Cosmology & Gravitation,  
University of Portsmouth, U. K.



**Mihir K. Arjunwadkar**  
Centre for Modeling and Simulation,  
University of Pune, India



**Larry A. Wasserman**  
Carnegie Mellon University

To Christopher R. Genovese, Christopher J. Miller, Robert C. Nichol, Mihir K. Arjunwadkar, and Larry A. Wasserman, in recognition of their paper, "Nonparametric Inference for the Cosmic Microwave Background," published in *Statistical Science*, Vol. 19, No. 2, (May 2004): pp. 308-321

This paper applies recently developed techniques to derive and compute a confidence set for the unknown spectrum of the Cosmic Microwave Background from which inferences on fundamental cosmological parameters can be obtained. The results have important consequences for understanding the nature of the early universe and the formation of the large-scale structure we see today.



## W. J. Youden Award in Interlaboratory Testing

*Philip R. Scinto, Chair*

W. J. Youden Award in Interlaboratory Testing



**Hariharan K. Iyer**

Colorado State University



**Chih-Ming (Jack) Wang**

National Institute of  
Standards and Technology



**Thomas Mathew**

University of Maryland,  
Baltimore

To Hariharan K. Iyer, Chih-Ming (Jack) Wang, and Thomas Mathew in recognition of their paper, "Models and Confidence Intervals for True Values in Interlaboratory Trials," published in the *Journal of the American Statistical Association*, December 2004, Vol. 99, No. 468, Theory and Methods.

## Edward C. Bryant Scholarship Award

*Elizabeth A. Stasny, Chair*

Edward C. Bryant Scholarship Committee



**Jianzhu Li**

Joint Program in Survey Methodology,  
University of Maryland

To Jianzhu Li for outstanding graduate work  
in survey statistics.

## 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



**Susanne S. Hoepfner**

Louisiana State University



**Carrie Hosman**

University of Michigan



**Carly Pendleton**

Brigham Young University

To Susanne S. Hoepfner, Carrie Hosman, and Carly Pendleton 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*

**Nicole Bohme**  
St. Olaf College



## SPAIG Award

*Ronald S. Fecso, Chair*  
Statistical Partnerships among Academe, Industry, and  
Government Committee

The 2005 SPAIG Award is awarded to the:

### NISS Affiliates

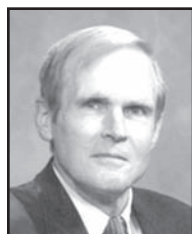
*—Twenty-Seven academic institutions, 9 government agencies, and 15 corporations. The collaborations among these organizations through NISS programs have led to the dissemination of advanced statistical methods to corporate and federal agencies and communication of applied problems generated by those organizations to academic researchers. This award is in recognition of excellence within the SPAIG concept.*

*The American Statistical Association, through the Statistics Partnerships among Academe, Industry, and Government (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, as it recognizes organizations instead of individuals.*

*All awardees and histories of the awards can be found on the ASA web site at [www.amstat.org/awards](http://www.amstat.org/awards).*



# ASA Presidential Address



Fritz J. Scheuren

## *"Statistics: a Rights Discipline"*

Fritz J. Scheuren

*Vice President, NORC  
at the University of Chicago*

"The 2005 Presidential Talk will revisit the stated mission of the American Statistical Association. While all parts of ASA's mission will be dealt with, emphasis will be placed on the theme of this year's annual meeting, namely 'to use our discipline to enhance human welfare.' How we deploy ourselves right now to accomplish the ASA mission (through our Sections, Chapters, or Committees) will be discussed. Covered, too, and perhaps of most importance, is what we do as individual ASA members. Lessons from other scientific societies are drawn, as well as from our own long past history. It is hoped that this 'back to basics' approach will give us a place to anchor ourselves as we reach forward for our future."

## Presentation of Founders Award

Bradley Efron, 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.*

## 2004 Founders Award Winners

**Roger W. Hoerl**, General Electric Company, received the 2004 Founders Award for being an articulate advocate in promoting collaboration and facilitating discussion between industry and academe; for a distinguished record of publication, including papers examining the interplay between industry and undergraduate and graduate education; for outstanding contributions to the ASA Continuing Education program; for frequent and important contributions to the Joint Statistical Meetings; and for exemplary service to the Association through its sections and editorial boards.



**Dallas E. Johnson**, Kansas State University, received the 2004 Founders Award for more than 35 years of exceptional service and leadership to the Association; for outstanding service as the Founding Editor of the Journal of Agricultural, Biological, and Environmental Statistics; for devoted editorial service for The American Statistician and other statistical journals; for leadership on the ASA Council; for leadership in ASA Sections on Statistical Education and Statistical Consulting; for leadership in cofounding the Mid-Missouri Chapter of the ASA and serving as President of the Kansas-Western Missouri ASA Chapter; for service on various ASA committees; and for outstanding service on the ASA Board of Directors.



**William R. Schucany**, Southern Methodist University, received the 2004 Founders Award for more than 35 years of outstanding service to the Association through leadership positions in the Section on Nonparametric Statistics, the Section on Statistical Education, and numerous national ASA committees; for exceptional contributions at the regional level to the North Texas Chapter and the Conference of Texas Statisticians; and for exemplary and sustained editorial service to a variety of Association publications.



**Ray A. Waller**, retired, received the 2004 Founders Award for many contributions to the profession and the Association, culminating in his service as Executive Director and Secretary from 1995–2001; for improving service to members and the internal efficiency of the ASA office through effective reorganization and well-chosen hiring; for constant attention to detail and a continuing sense of responsibility for the welfare of ASA and its members.



# Fellows ASA

Richard F. Gunst, Chair  
Committee on Fellows

*The American Statistical Association announces the election of 56 new Fellows. A superlative honor for 91 years, fellowship in the ASA recognizes outstanding professional contributions in the field of statistical science.*



**Paul S. Albert**  
*Mathematical Statistician*  
**Biometric Research Branch,  
National Cancer Institute**

For development of innovative statistical methods for the analysis of correlated data; for applications of statistics to neurology and cancer research; and for service to the profession.

**J. Richard Alldredge**  
*Professor of Statistics*

**Washington State University**

For contributions in wildlife and fisheries statistics, particularly in methods for design and analysis of habitat selection studies; for development of outstanding statistical consulting services; and for service to the profession.



**Eric T. Bradlow**  
*Professor of Marketing and Statistics*  
**The Wharton School of the University of Pennsylvania**

For productive research in applying Bayesian methods to problems of marketing and psychometrics; and for insightful editorial service.

**Janet P. Buckingham**  
*Principal Analyst*

**Southwest Research Institute**

For fostering excellence in statistical practice and in the application of statistical methods in the engineering and physical sciences; and for outstanding leadership and service to the profession, especially in committee and section activities.



**Jianwen Cai**  
*Professor of Biostatistics*

**The University of North Carolina at Chapel Hill**

For outstanding contributions to statistical methods dealing with multivariate failure time data; for collaborative research in obesity and cardiovascular disease; for outstanding teaching; and for service to the profession.

**Beth L. Chance**  
*Associate Professor of Statistics*  
**California Polytechnic State University, San Luis Obispo**

For promoting effective teaching of statistics at the undergraduate and K-12 levels; for contributions to statistics education research and the development of curricular materials; and for editorial and professional service.



**Ming-Hui Chen**  
*Professor of Statistics*  
**University of Connecticut**

For outstanding contributions to research in Bayesian analysis and statistical computing; for excellence in teaching and textbook development; for innovative applications of statistics to medicine and industry; and for service to the ASA and the statistical community.



**Smiley W. Cheng**  
*Professor and Head of Statistics*  
**University of Manitoba**

For outstanding contributions to teaching; for excellence in outreach activities providing statistical and quality improvement training to industry; for editorial services and service to the profession; and for research in statistical quality improvement.



**Merlise A. Clyde**  
*Associate Professor of Statistics and Decision Sciences,*  
**Duke University**

For contributions to Bayesian statistics, especially in model averaging, model selection, experimental design, and wavelet analysis; and for leadership in statistical applications to the environment.



**Kevin J. Coakley**  
*Mathematical Statistician,*  
**National Institute of Standards and Technology**

For contributions to statistical methods for physical science and engineering, especially methods and software for imaging and neutron research; and for innovative research in material science and optoelectronics.



**Dianne H. Cook**  
*Professor of Statistics*  
**Iowa State University**

For outstanding research contributions to the fields of statistical graphics and high-dimensional data visualization, including contributions to XGobi and GGobi; and for service to the ASA and the profession.



**Susan J. Devlin**  
*Principal*  
**The Artemis Group, LLC**

For accomplishments as a statistician, researcher, manager, entrepreneur, consultant, teacher, and communicator; and for many creative contributions to the ASA.



**Fred C. Djang**  
*Biostatistician/Teacher of Statistics,*  
**Bristol-Myers Squibb and Choate Rosemary Hall**

For outstanding and extensive contributions to the development of statistics education at the high-school level, especially the Advanced Placement Statistics program; and for untiring work for the profession at the local and national levels.



**Francesca Dominici**  
*Associate Professor of Biostatistics*  
**Bloomberg School of Public Health, Johns Hopkins University**

For leadership in research on the health effects of air pollution; for developing statistical methods for hierarchical models, confounding adjustment, and model selection; and for outstanding professional service.



**Alan H. Dorfman**  
*Senior Mathematical Statistician*  
**U.S. Bureau of Labor Statistics**

For important research contributions to finite population sampling and inference; and for innovative application of statistical and sampling principles to government economic surveys.



**Jean-Marie Dufour**  
*Canada Research Chair in Econometrics*  
**Université de Montréal**

For outstanding contributions to statistical methodology in econometrics, distribution-free and parametric methods, time series analysis, causality analysis, and statistical inference in weakly identified models; and for service to the profession.



**Christopher A. Field**  
*Professor of Statistics*  
**Dalhousie University**

For fundamental contributions to small sample asymptotics and robustness; for outstanding applications of statistics to genetic research and marine ecology; and for dedicated service to the statistics profession.



**Andrew P. Grieve**  
*Senior Statistical Consultant*  
**Pfizer Global R&D**

For influential contributions to the practice of statistics; for pioneering contributions to adaptive designs in clinical trials; and for distinguished leadership in the statistical profession.



**Frank E. Harrell, Jr.**  
*Professor and Chair of Biostatistics*  
**Vanderbilt University School of Medicine**

For extraordinary effectiveness in developing and disseminating tools and principles of sound statistical practice in medical research; and for administrative effectiveness and leadership in statistical programs.





**Xuming He**

*Professor of Statistics*

**University of Illinois at Urbana-Champaign**

For influential research in robust and semiparametric statistical methods; for leadership in consulting and collaboration; for excellence in teaching and mentorship of students; and for outstanding service to the profession.



**John E. Kolassa**

*Professor of Statistics*

**Rutgers University**

For outstanding contributions to small-sample asymptotic methods; for innovative collaborative research in the biological sciences; and for excellence in editorial service.



**Chihiro Hirotsu**

*Professor of Science and Technology*

**Meisei University**

For fundamental contributions to research in change point analysis, ordered alternatives, and multiple comparison procedures as applied to regulating new drugs; and for inspiring mentorship and education of graduate students.



**Jun S. Liu**

*Professor of Statistics*

**Harvard University**

For contributions to Monte Carlo methods and bioinformatics; for pivotal work in genomics and computational statistics; and for contributions to Bayesian modeling and computation of biological sequence analysis.



**Theodore R. Holford**

*Susan Dwight Bliss Professor of Public Health*

**Yale University**

For outstanding contributions to the design, analysis, and interpretation of clinical and epidemiological studies; for excellence in teaching and graduate education; and for outstanding administration.



**Regina Y. Liu**

*Professor of Statistics*

**Rutgers University**

For outstanding contributions to statistical theory, particularly in data depth and resampling; for influential work on airline safety; and for service to the profession.



**Hariharan K. Iyer**

*Professor of Statistics*

**Colorado State University**

For outstanding teaching; for dissemination of statistical knowledge through workshops and conferences; for consulting and collaborative research on measurement, standards, and monitoring; for research on design, calibration, and interval estimation.



**Bani K. Mallick**

*Professor of Statistics*

**Texas A&M University**

For contributions to Bayesian modeling and computation, with applications to different scientific fields; for leadership in promoting statistical science; and for service to the profession.



**KyungMann Kim**

*Professor of Biostatistics and Statistics*

**University of Wisconsin-Madison**

For contributions to group sequential methods and clustered data analysis; for applications in translational and clinical cancer research; for leadership in cancer biostatistics and research; and for service to the profession.



**David J. Marchette**

*Senior Scientist*

**Naval Surface Warfare Center**

For seminal work in computer intrusion detection and linking pattern recognition with graph theory; and for tireless efforts in disseminating these methods to the statistical community.



**David G. Kleinbaum**

*Professor of Statistics*

**Rollins School of Public Health, Emory University**

For innovative contributions to education in statistical and epidemiologic methods through teaching and textbooks; for excellence as a consultant to national and international public health organizations; and for service to the profession.



**Michael E. Miller**

*Professor of Biostatistics*

**Wake Forest University School of Medicine**

For excellence as a biostatistics consultant and collaborator; for the development and application of statistical methods to biomedical research areas; for excellence in administration; and for service to the profession.



**Robert J. Kohn**

*Professor of Commerce and Economics*

**University of New South Wales**

For outstanding contributions in time series analysis, Bayesian inference, and statistical computing; and for distinguished administrative and educational service.



**Stephan Morgenthaler**

*Professor of Statistics*

**École Polytechnique Fédérale de Lausanne**

For the development of innovative statistical methods, particularly in robustness and conditional inference; for applications of statistics to genetics; and for service to the profession.



**Madhuri S. Mulekar***Professor of Statistics***University of South Alabama**

For innovative contributions to undergraduate statistical education and developing undergraduate research programs; for sustained high-quality contributions to the Advanced Placement Statistics program; and for service to the profession.

**Michael A. Proschan***Mathematical Statistician***National Heart, Lung, and Blood Institute**

For innovative research in the methodology for early stopping or extension of clinical trials; and for general contributions to the design, analysis, and administration of cardiovascular clinical trials.

**Ralph G. O'Brien***Professor of Biostatistics***Cleveland Clinic****Lerner College of Medicine**

For developing and promoting effective methods, software, and consulting strategies for sample-size analysis; for teaching, mentoring, and leadership in applying statistical science across a wide range of disciplines; and for service to the profession.

**Bonnie K. Ray***Research Staff***IBM Thomas J. Watson Research Center**

For outstanding contributions to time series research, especially in methodological development for long memory processes and nonlinear models; and for service to the profession through editorial contributions.

**William F. Rosenberger***Professor of Applied and Engineering Statistics***George Mason University**

For important contributions to the statistical theory underlying the design of clinical trials, particularly response-adaptive randomization; for service on clinical trials monitoring boards; and for excellence in teaching and mentoring.

**Byeong Uk Park***Professor of Statistics***Seoul National University**

For research in non and semiparametric statistics, including fundamental contributions in bandwidth selection; for leadership in the statistics profession; and for important editorial contributions.

**William C. Parr***Professor of Statistics***University of Tennessee**

For contributions in minimum distance and robust estimation; for leadership in applying statistical thinking and methods in industrial and business practice; for effective teaching and consulting in process improvement; and for service to the profession.

**Susan Schechter***Senior Statistician***The Office of Management and Budget**

For important contributions in the field of cognitive interviewing; for research on cognitive testing as an integral component of survey development; and for leadership in the development of race and ethnicity guidelines and the institutionalization of the American Community Survey.

**Iris M. Shimizu***Mathematical Statistician***National Center for Health Statistics**

For outstanding contributions in the design and evaluation of health establishment surveys; and for outstanding services as a mentor, teacher, consultant, and collaborator.

**Jeffrey S. Passel***Senior Research Associate***Pew Hispanic Center**

For outstanding contributions to the measurement of population composition and change, with special focus on immigrants and immigration; for the use of data to inform public policy; and for insightful contributions to the understanding of census data.

**Patrick E. Shrout***Professor of Psychology***New York University**

For contributions to the statistical analysis of reliability of medical and diagnostic judgments; for the design of screening studies in psychiatric epidemiology; and for applications of exemplary statistical practice in psychology, psychiatry, and public health.

**Shyamal D. Peddada***Biostatistician***National Institute of Environmental Health Sciences**

For broadening the scope of applications in statistics through excellence in consulting and innovative methodological research in order-restricted inference, tracking of Arctic sea ice, and gene expression microarrays.

**Jiayang Sun***Professor of Statistics***Case Western Reserve University**

For outstanding contributions to statistical theory, applications, and interdisciplinary research, particularly in simultaneous confidence regions and multiple testing, bump hunting and biased sampling, mixtures and image analysis, and high-dimension graphics; for innovation in teaching; and for service to the profession.



**Deborah F. Swayne**  
*Technical Specialist*  
**AT&T Labs Research**

For influential contributions in statistical graphics methods; for the creation of advanced graphical software; and for exemplary service to the profession.



**Lonnie C. Vance**  
*Program Manager*  
**QQuest Corporation**

For improvements in automotive quality by novel implementation of statistical methods into business systems; for applied research; and for service to the profession.



**Scott A. Vander Wiel**  
*Distinguished Member of Technical Staff*  
**Bell Labs, Lucent Technologies**

For applications of statistics to meet the needs of engineers, scientists, and managers in the telecommunications industry; and for service to the profession.



**Jay M. Ver Hoef**  
*Statistician*  
**National Marine Mammal Laboratory**

For innovative research in spatial and applied Bayesian statistics in ecological studies; for applications in monitoring of natural resources, including development of statistical software and GIS systems; and for leadership within the environmental statistics community.



**Geert Verbeke**  
*Professor of Biostatistics*  
**Katholieke Universiteit Leuven**

For outstanding contributions to methodological and collaborative research on mixed models, longitudinal data, and incomplete data; for dedication to statistical education and scientific consultancy; and for editorial and administrative service to the profession.



**Joseph S. Verducci**  
*Professor of Statistics*  
**The Ohio State University**

For significant contributions to the theory and applications of ranking methods; for excellence in collaborative research in diverse scientific areas, particularly in chemistry, psychiatry, and biology; and for service to the profession.



**Patricia Wahl**  
*Professor and Dean of Biostatistics*  
**School of Public Health and Community Medicine, University of Washington**

For outstanding leadership in applications of statistics to the public health field; for substantial statistical contributions to health promotion and disease prevention; and for exemplary teaching and mentoring.



**Joanne R. Wendelberger**  
*Deputy Group Leader*  
**Los Alamos National Laboratory**

For statistical leadership and interdisciplinary collaboration on problems of national security; for the engagement of the statistical community in problems of national importance; for mentoring of students; and for service to the profession.



**Douglas P. Wiens**  
*Professor of Mathematical and Statistical Sciences*  
**University of Alberta**

For contributions to statistical theory and methodology, particularly in robust methods for inference and design of experiments; and for service to the profession.



**Bin Yu**  
*Professor of Statistics*  
**University of California, Berkeley**

For contributions to statistical inference using the minimum description length principle and the theory of stochastic complexity; for collaborative research in engineering and computer science; and for editorial service.



*All awardees and histories of the awards can be found on the ASA web site at [www.amstat.org/awards](http://www.amstat.org/awards).*



# Committee of Presidents of Statistical Societies Awards 2005

Wednesday, August 10, 2005, 4:00 p.m.  
Minneapolis Convention Center, Ballroom A

## Florence Nightingale David Award

This award is named after Florence Nightingale David, an accomplished statistician and the first recipient of the Elizabeth L. Scott Award. It is sponsored jointly by COPSS and the Caucus for Women in Statistics. The award is granted to a female statistician who serves as a role model to other women by her contributions to the profession through excellence in research, leadership of multidisciplinary collaborative groups, statistics education, or service to the professional societies. The F. N. David Award, established in 2001, is awarded biannually and consists of a certificate and cash award.

**2005 Committee:** Ralph B. D'Agostino, Sr. (Chair, ENAR), Donna J. Brogan (COPSS), Subir Ghosh (WNAR), Liza Levina (IMS), Linda C. Malone (ASA), and Sharon-Lise Normand (SSC)

**Past Recipients:** Juliet Popper Shaffer, 2003; Nan M. Laird, 2001

## George W. Snedecor Award

This award honors an individual who was instrumental in the development of statistical theory in biometry. The award is for a noteworthy publication in biometry within three years of the date of the award. The Snedecor Award, established in 1976, is awarded biannually (in odd years) and consists of a certificate and a cash award.

**2005 Committee:** David S. Stoffer (Chair, ASA), Marie Davidian (IMS), Pierre R. L. Dutilleul (SSC), Patrick J. Heagerty (COPSS), Rick Routledge (WNAR), and Daowen Zhang (ENAR)

**Past 10 recipients:** Paul R. Rosenbaum, 2003; Patrick J. Heagerty, 2001; Daniel Scharfstein, Anastasios Tsiatis, Jamie Robins, 1999; Michael A. Newton, Kathryn Roeder, Raymond J. Carroll, Bruce G. Lindsay, 1997; Norman E. Breslow, David Clayton, 1995; Kenneth L. Lange, Michael L. Boehnke, 1993; Kenneth H. Pollock, James D. Nichols, Caavel Brownie, J. E. Hines, 1990; Barry I. Graubard, Thomas R. Fears, Mitchell H. Gail, 1989; Karim F. Hirji, Cyrus Mehta, Nitin R. Patil, 1988; George E. Bonney, 1987

## Florence Nightingale David



F. N. David was a pioneer for women in the field of statistics. David was an ASA Fellow and member of the International Statistical Institute, as well as the Institute of Mathematical Statistics. She authored two monographs, nine books, and more than 100 peer-reviewed papers. She was the first recipient of the Elizabeth L. Scott Award in 1992.

## George W. Snedecor

George W. Snedecor was a professor of mathematics at Iowa State University. He taught the first course in statistics offered there, and thence founded the first collegiate Department of Statistics in the United States with the help of R. A. Fisher. In 1948, Snedecor acted as the 43rd president of the American Statistical Association, the first president to come from an agricultural research background.





# Committee of Presidents of Statistical Societies

## 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.

**2005 Committee:** Anastasios A. Tsiatis (Chair, ENAR), Nancy E. Heckman (SSC), W. Michael O'Fallon (ASA), Sastry G. Pantula (COPSS), Nancy Reid (IMS), and Jessica M. Utts (WNAR)

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

*Committee of Presidents of Statistical Societies*

Linda J. Young, Chair • Karen J. Bandeen-Roche, Secretary/Treasurer



### *Past Presidents*

Bradley Efron, ASA • Marie Davidian, ENAR • Terence P. Speed, IMS • Nancy Reid, SSC • Wesley O. Johnson, WNAR

### *Presidents*

Fritz J. Scheuren, ASA • Peter B. Imrey, ENAR • Louis H. Y. Chen, IMS • David A. Binder, SSC • Christiana M. Drake, WNAR

### *Presidents-Elect*

Sallie Keller-McNulty, ASA • Jane F. Pendergast, ENAR • Thomas G. Kurtz, IMS • Charmaine B. Dean, SSC • Christine E. McLaren, WNAR



### *Acknowledgements*

The Committee of Presidents of Statistical Societies (Presidents, Presidents-Elect, and Past Presidents of the American Statistical Association, the International Biometric Society: ENAR/WNAR, the Institute of Mathematical Statistics, and the Statistical Society of Canada) acknowledges those institutions that have generously contributed to an endowment fund for the George W. Snedecor and Elizabeth L. Scott Awards:

*Abbott Laboratories*

*Biopharmaceutical Research Consultants, Inc.*

*Bristol-Myers Squibb Pharmaceutical Research Institute*

*Chapman & Hall/CRC*

*Committee of Presidents of Statistical Societies*

*Duxbury Press*

*Institute for Social Research,  
Survey Research Center*

*Institute of Mathematical Statistics*

*Iowa State University*

*Procter & Gamble*

*Section on Statistical Graphics of the  
American Statistical Association*

*Springer-Verlag, Inc.*

*Systat Software Inc.*

*Trilogy Consulting Corporation*

*John Wiley & Sons, Inc.*



# Committee of Presidents of Statistical Societies Fisher Lecture



R. Dennis Cook

Wednesday, August 10, 2005, 4:00 p.m.

Minneapolis Convention Center, Ballroom A

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.

**R. Dennis Cook**

**University of Minnesota**

*"Dimension Reduction in Regression"*

Dimension reduction issues occur frequently in many areas of science and are pervasive in statistics. Although addressed frequently in the context of reducing the dimension of multivariate observations, we will focus on dimension reduction in regression, where the overarching goal is to characterize the conditional distribution of the response given the predictors.

R. A. Fisher provided invaluable guidance on many fundamental statistical issues, including dimension reduction. Starting with a commentary on and selective review of Fisher's published remarks, we will discuss foundations of dimension reduction for regression and the methodological promise of those foundations, as well as currently available methodology and near advances.

2005 Committee: Wayne A. Woodward (Chair, ASA), Louis-Paul Rivest (SSC), Elizabeth Thompson (COPSS), Naisyin Wang (ENAR), Robert L. Wolpert (IMS), and Weng Kee Wong (WNAR)

Past 10 lecturers: 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; Norman E. Breslow, 1995

## 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, he was honored again with the Copley Medal of the Royal Society. Fisher's 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*

- ★ **Ulysses A. Diva**, University of Connecticut
- ★ **Shu Han**, Rice University
- ★ **Sinae Kim**, Texas A&M University
- ★ **Bin Li**, The Ohio State University
- ★ **Rongheng Lin**, John Hopkins University
- ★ **Daniel Merl**, University of California, Santa Cruz
- ★ **Michael L. Pennell**, The University of North Carolina at Chapel Hill and NIEHS
- ★ **Shubhankar Ray**, Texas A&M University
- ★ **Duchwan Ryu**, Texas A&M University
- ★ **Jing Zhao**, Merck Research Laboratories

## Biometrics Section

### *David P. Byar Young Investigator Award*

- ★ **Rolando De la Cruz-Mesía**, Pontificia Universidad Católica de Chile
- ★ **Yujun Wu**, Student

### *Travel Award*

- ★ **Li Quin**, Student
- ★ **Adin-Cristian Andrei**, University of Michigan

## Biopharmaceutical Section

### *Best Contributed Paper (note 1st Place is tied)*

- 1st: ★ **Devan V. Mehrotra**, Merck Research Laboratories
- ★ **Geert Molenberghs**, Universiteit Hasselt
- ★ **Russell D. Wolfinger**, SAS Institute Inc.
- 1st: ★ **Chris Gennings**, Virginia Commonwealth University
- ★ **Walter H. Carter, Jr.**, Virginia Commonwealth University
- 3rd: ★ **Viswanath Devanarayan**, Eli Lilly and Company

### *Student Paper Award*

#### **Honorable Mention:**

- ★ **Junfeng Sun**, The Ohio State University

## Statistical Computing Section

### *2005 Best Contributed Presentation*

- ★ **Jing Wang**, Louisiana State University

### *John M. Chambers Statistical Software Award*

- ★ **Markus Helbig**, Egling, Germany

## Statistical Computing Section and Statistical Graphics Section

### *Student Paper Award*

- ★ **Lingsong Zhang**, The University of North Carolina
- ★ **Robert B. Gramacy**, University of California, Santa Cruz
- ★ **Mingyu Cao**, Carnegie Mellon University
- ★ **Jouni P. Kerman**, Columbia University

## Section on Statistical Consulting

### *Travel Award*

- ★ **Manuela Huso**, Oregon State University
- ★ **Stephen Lake**, Harvard Medical School
- ★ **Karen A. Copeland**, Boulder Statistics

## Section on Statistical Education

### *Waller Education Award*

- ★ **Roger D. Woodard**, North Carolina State University

### *Best Contributed Paper*

- ★ **Edward R. Mansfield**, University of Alabama
- ★ **Benjamin Michael Adams**, University of Alabama
- ★ **Michael Conerly**, University of Alabama

## Section on Statistics and the Environment

### *Distinguished Achievement Award*

- ★ **Ronald E. McRoberts**, Forest Inventory & Analysis

## Section on Statistics in Epidemiology

### *Exemplary Service Award*

- ★ **Edward L. Frome**, Oak Ridge National Laboratory

### *Nathan Mantel Award*

- ★ **Clarice R. Weinberg**, National Institute of Environmental Health Sciences

### *Young Investigator Award*

- ★ **Wonsuk Yoo**, New Jersey Institute of Technology

### *Student Travel Award*

- ★ **Cynthia S. Crowson**, Mayo Clinic
- ★ **Nuoo -Ting Molitor**, University of Southern California
- ★ **Michael D. Joner**, Student

## Government Statistical Section/Social Statistics Section/Washington Statistical Society

### *Roger Herriot Award*

- ★ **Robert E. Fay III**, U.S. Census Bureau

# Section ★ Chapter ★ Education ★ Other

## **Government Statistical Section/Social Statistics Section/Washington Statistical Society/Caucus for Women in Statistics/Harris-Smith Institutes Mathematica Policy Research/Synecotics for Management Decisions, Inc.**

*Wray Jackson Smith Award*

- ★ Layla Parast, The University of Texas at Austin

## **Council on Statistical Policy/Council for Excellence in Government/Washington Statistical Society/Social Statistics Section Government Statistics Section**

*Jeanne Griffith Mentoring Award*

- ★ Renee H. Miller, Energy Information Administration

## **Section on Nonparametric Statistics**

*Best Paper at JSM 2004*

- ★ Dennis LaRocque, HEC Montréal
- ★ Thomas LaFramboise, Harvard University
- ★ Lan Wang, University of Minnesota

## **Section on Physical and Engineering Sciences**

*Most Outstanding Presentation Award*

- 1st: ★ Stephen P. Jones, The Boeing Company  
2nd: ★ Chris Gennings, Virginia Commonwealth University

**Honorable Mentions:**

- ★ Katja Sabine Remlinger, GlaxoSmithKline
- ★ Arzu Onar, St. Jude Children's Research Hospital
- ★ Jeffrey A. Robinson, General Motors Research and Development Center
- ★ Sabyasachi Basu, The Boeing Company
- ★ Robert W. Mee, University of Tennessee, Knoxville

## **Section on Quality and Productivity**

*Mary G. Natrella Scholarship Award*

- ★ Abhyuday Mandal, Georgia Institute of Technology
- ★ Landon H. Sego, Virginia Polytechnic Institute and State University

## **Section on Risk Analysis**

*Best Contributed Paper*

- ★ A. John Bailer, Miami University

## **Section on Sports in Statistics**

*Service Award*

- ★ Michael J. Schell, The University of North Carolina

## **Social Statistics Section/Section on Government Statistics/ Survey Research Methods Section**

*Student Paper Competition*

- ★ Gabriele Beissel-Durrant, Southampton Statistical Sciences Research Institute
- ★ Kelly Dixon, U.S. Census Bureau
- ★ Mike Kwanisai, NORC at the University of Chicago
- ★ Qingzhao Yu, The Ohio State University
- ★ Marcel de Toledo Vieira, University of Southampton

## **Section on Teaching Statistics in the Health Sciences**

*Distinguished Achievement Award*

- ★ Stephen W. Looney, LSU Health Sciences Center

## **Washington Statistical Society/National Association for Business Economics/Business and Economics Statistical Section**

*Julius Shiskin Award*

- ★ W. Erwin Diewert, University of British Columbia

## **2005 Chapter Service Recognition Awards**

- ★ Thomas P. Lane—Boston Chapter
- ★ John C. Michalke—Albany Chapter
- ★ Robert Kushler—Detroit Chapter
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- ★ Eric R. Siegel—Central Arkansas Chapter
- ★ Nandini Kannan—San Antonio Chapter
- ★ Hrishikesh Chakraborty—North Carolina Chapter
- ★ Deo Kumar Srivastava—Western Tennessee Chapter
- ★ Lawrence Pratt—Albuquerque Chapter
- ★ Duane L. Steffey—San Diego Chapter
- ★ Bahman Shafii—Snake River Chapter
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- ★ Marlene J. Egger—Utah Chapter
- ★ Linda L. C. Moss—Chesapeake Chapter

## **2005 Excellence-in-CE Course Recognition Awards**

*Longitudinal and Incomplete Data*

- ★ Geert Verbeke, Katholieke Universiteit Leuven
- ★ Geert Molenberghs, Universiteit Hasselt

*Practical Bayesian Methods for Evaluating Clinical Interventions*

- ★ David J. Spiegelhalter, MRC Biostatistics Unit, Cambridge

## **2005 Waksberg Award for Outstanding Contributions in the Theory and Practice of Survey Methodology**

- ★ Alastair J. Scott, The University of Auckland

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