

July/August 2002

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President Bush Honors Rao



Photo courtesy of the National Science & Technology Medals Foundation: www.nationalmedals.org

IMS past president Calyampudi R Rao, Emeritus Holder of the Eberly Family Chair in Statistics, and Director of the Center for Multivariate Analysis, Pennsylvania State U, received the Medal of Science from President Bush in a ceremony at the White House in June. He is one of only fifteen scientists to receive America's highest scientific honor this year, and the only statistician.

His citation read: C R Rao's pioneering work in multivariate analysis has become the foundation of statistics, with a significant impact on applications in medical diagnosis, evolutionary genetics, and signal detection theory. Rao has focused equally on the application of statistical methods to real-world problems. One of his early books, *Advanced Statistical Methods in Biometric Research* (1952), was written to assist biomedical researchers who were not equipped to develop the new methods of analysis their data demanded. In response to the needs of industry, he introduced a new method of experimentation through

combinatorial arrangements, known as Orthogonal Arrays, which has become widely used to control and improve the quality of manufactured goods. He developed estimation theory in small samples, which greatly extended the scope of statistical methods in practical work. Rao was the first to introduce differential geometric techniques in discussing problems of statistical inference, based on Rao's Distance Function, which is now an active field of research.

President Bush said, "The science and technology leaders here today have turned genius and persistence into knowledge, technology that will shape lives for decades to come. All of our honorees, and their colleagues throughout the United States, are asking questions whose answers will improve lives not only here at home, but around the world."

We extend our warm congratulations to C R Rao.

A full account of the ceremony, by Annemarie Mountz, is at www.psu.edu/ur/extra/2002/rao/main.html

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News from IMS members

Nobel Laureate James Heckman Receives ASA Honor

The Chicago Chapter of the American Statistical Association (ASA) has selected James J. Heckman to receive the annual Statistician of the Year award on June 18, 2002. Professor Heckman, a member of IMS, is the Henry Schultz Distinguished Service Professor of Economics at the University of Chicago, where he has served since 1973. He holds a parallel appointment as Director of Social Program Evaluation at the Harris School of Public Policy at the University of Chicago, and is also a Senior Research Fellow at the American Bar Foundation.

Professor Heckman earned his bachelor's degree at Colorado College and his Master's and Doctorate degrees at Princeton University. He has received numerous honors for his research, including the Nobel Prize in 2000 for his development of theory and methods for analyzing selective samples.

Professor Heckman's research combines both methodological and empirical interests in evaluating the impact of social programs on the economy and on society. He has written on the impact of civil rights, affirmative action, labor supply and human capital accumulation, the impact of job training on earnings and employment, the impact of unions on labor markets in developing countries, and on skill certification programs. He has also contributed substantially to literature in applied and theoretical econometrics. His methodological work on selection bias and on the evaluation of social programs is widely used, as is his research on the analysis of heterogeneity in consumer preferences and in the analysis of longitudinal data. He has a series of influential papers on the identifiability of broad classes of econometric models.

David O Siegmund elected to National Academy of Sciences



David O Siegmund, professor of statistics at Stanford University and IMS past President (1990-91) has been elected to the National Academy of Sciences (NAS). He is among 72 new members and 15 foreign associates selected in recognition of their distinguished and continuing achievements in original research.

David works at the interface between probability and statistics. He has presented elegant solutions to several difficult problems in probability theory that are of interest to applied statisticians. These mainly concern sequential analysis—the study of how data should be accumulated in an experimental situation. He pioneered the development of methods that are used in the analysis of sequential clinical trials, allowing pharmaceutical investigators to assess, for instance, if a new medicinal treatment is better or worse than an old one, and if the results warrant stopping an FDA Phase III clinical trial. His recent work has focused on different problems in statistical genetics, especially genetic mapping, or identifying the locations of genes that are involved in specific traits. He employs similar methods to aid the analysis of sequences of amino acids that make up proteins. David earned a doctorate from Columbia University in 1966 and served on the Columbia faculty until 1976, with a brief stint at Stanford from 1967 to 1969. He has worked at Stanford since accepting a full professorship in 1976. Author of two books on sequential analysis, David has been recipient of Guggenheim, Einstein and Fulbright fellowships, the Humboldt Prize, the Dean's Award for Distinguished Teaching and the Wilks Medal of the American Statistical Association.

Terry Lyons elected FRS

Professor **Terence John Lyons**, Wallis Professor of Mathematics, University of Oxford, and a member of IMS, has been elected as a Fellow of the Royal Society of London, one of only four mathematicians to be elected FRS this year. Peter Hall writes, "Terry's deep insight and breadth of vision have allowed him to sharpen and extend probability theory and potential theory in several fundamental ways. He has made a range of major contributions on either side of the frontier between analysis and probability theory, but his development of a stochastic calculus for rough signals is of particular significance. His technology came as quite a surprise to other workers in the field, and represents a sea change in methods for stochastic analysis. Relative to conventional techniques, Terry's approach is more direct but also more demanding, more powerful but in important ways more transparent. It offers new opportunities for tackling previously intractable problems."



Statistical Society of Canada Honors IMS Members

Dr Muni Srivastava, an IMS Member, has been awarded the 2002 Statistical Society of Canada Gold Medal. The medal is awarded to "a person who has made substantial contributions to statistics, or to probability, either to mathematical developments or in applied work". The SSC Gold Medal is intended to honor current leaders in their fields.

The SSC has also honored another IMS member: **Dr Jonathan Taylor** has received the 2001 Pierre Robillard Award. This award recognizes his thesis, "Euler Characteristics of Gaussian Fields on Manifolds", as the best doctoral thesis in statistics defended at a Canadian university in 2001: his supervisor was Professor Keith Worsley of McGill University. Jonathan is currently an Assistant Professor at Stanford University.

The Award is in honour of Pierre Robillard, a very talented and dynamic young statistician, whose untimely death in 1975 cut short what promised to be a brilliant and distinguished career in his chosen profession.

Dietrich Stoyan of Freiburg University of Mining and Technology, Germany, has been elected a Member of the Leopoldina, the oldest German scientific society, which has just celebrated its 350th anniversary. He was elected for his work in applied probability. Dietrich has published widely in areas such as astronomy, forestry, statistics, mathematics, mining, geology, mechanics, physics, botany, ecology, and has worked in queueing theory, in stochastic geometry and in spatial statistics. The *New York Times* recently ran an article about Dietrich's investigations into the mixing process of Euro coins; more information is on his homepage www.mathe.tu-freiberg.de/stoyan.

Michael P. Cohen has been elected President of the Washington Academy of Sciences. He will serve as President-Elect until May 2003 and then as President from May 2003 to May 2004. The Washington Academy of Sciences, which is over 100 years old, is the local Washington DC affiliate of the American Association for the Advancement of Science and is the publisher of the Journal of the Washington Academy of Sciences. Michael is the Assistant Director for Survey Programs of the Bureau of Transportation Statistics in the U.S. Department of Transportation.

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Profile: Bruce Trumbo, Carver Award Recipient

Julia Norton, IMS Treasurer, outlines the career of her colleague Bruce Trumbo, Professor of Statistics at California State U, Hayward. The Carver Award itself features on page 6



As a graduate student in 1974 and seeking employment in the San Francisco Bay area, Fred Mosteller sent me to visit Lincoln Moses, Helena Cramer, Patrick Suppes, Ingram Olkin, and Bruce Trumbo. At that time I knew all of these folks by reputation or publication except Trumbo. Thus, I wondered what Bruce Trumbo had done to place himself on Professor Mosteller's "people to see" list.

Twenty-eight years later, I no longer wonder. In ever widening circles one can see the effects of his devotion to our Department of Statistics, its faculty, students, and alumni; our university (California State University, Hayward); the field of statistics statewide, nationally, and internationally; and the advancement of science, especially through statistics.

Born in 1937, Bruce grew up in Springfield, Illinois, graduated from Springfield High School in 1955, and went on to Knox College, in Galesburg, IL. At Knox College, he knew Marcia Muelder (now married to Joe Eaton); her father Hermann was then the Dean of the College. Bruce's original major was

Chemistry with a goal of becoming a chemical engineer. However, two summer internships working in an industrial chemical laboratory spurred interest in a "less messy and smelly" career. In his junior year, he changed his major to Mathematics, graduating with an AB in 1959 in Mathematics and Chemistry. His elective courses included group theory and basic probability, but no statistics.

A third summer internship involved

"brave attempts at sales forecasting" using self-taught multiple regression. At that time, backward elimination for 11 predictor variables required a 100-mile trip with a deck of IBM cards in the trunk of the company car for access to an IBM 7090, which did the job in about half an hour. "The estimated running time on our

company's computer was 1 week, but the computer was needed for accounting and payroll, and it had never been known to run for an entire week without service to replace tubes."

In his senior year at Knox, Bruce was awarded a Woodrow Wilson National Fellowship for graduate study. Not venturing far from Springfield, he left for the University of Chicago, earning his SM in 1961 and a PhD in 1964. Bruce arrived knowing some probability but very little statistics. He took introductory statistics courses from K.A. Brownlee, William Kruskal, Paul Meier, and David Wallace and soon developed a strong interest. He took probability and measure theory from Patrick Billingsley (his thesis advisor) and Paul Halmos; and math

courses from Lawrence Graves, Saunders Mac Lane, and Antony Zugmund. His thesis was titled: "Weak Convergence of Conditional Probability Measures in a Metric Space."

From 1962 to 1963 Bruce taught engineering statistics and many sections of pre-calculus mathematics at San Jose State University (then San Jose State College). He reports, "I had always seen myself more as a teacher than as

a researcher, but the SJS courses were unexciting and there was very little tolerance there for any kind of innovation. I explored California from the beach at Santa Cruz to Yosemite National Park, doing very little work on an unfinished thesis."

In 1964-65, at Stanford's Departments of Statistics and Preventive Medicine,

he worked on Lincoln Moses' NIH Training grant; besides finishing his thesis, this included statistical consulting for medical researchers. Also in the mid-60s, he did some statistical consulting with Richard Post and George Roussas for NASA, mainly in human factors experiments in preparation for early space flights.

In 1965, George J. Resnikoff hired Bruce as an Assistant Professor at California State University, Hayward in the Department of Statistics. They had met years earlier while attending seminars at the University of Chicago when Resnikoff was Department Chair of Statistics at the Illinois Institute of Technology. George had started the CSUH Statistics Department the previous

“He explored California from the beach at Santa Cruz to Yosemite, doing “very little work” on an unfinished thesis.”

year. Bruce says, “Hiring procedures were less formal in those days and George was famous for getting to the point without formalities.” The job interview took place during a chance meeting in the parking area in front of the old Sequoia Hall at Stanford in winter 1964. An approximate unabridged conversation went something like this:

GR: “Are you determined to go back to San Jose next year where you’ll teach one statistics course in a math department, or would you like to come and help me start a new statistics department at Hayward?”

BT: “Hayward sounds interesting.”

GR: “Then you’re hired. I’ll send you some forms. Oh, and you’ll have to drive over and meet the president.”

On the IMS, Bruce reports, “It seemed that during my early years at Hayward George was a perpetual IMS officer of some sort, secretary and then treasurer. For a few years the IMS business office was housed in a trailer located in the parking lot of the Science Building at CSU Hayward, then it moved to larger quarters in an industrial park in Hayward near the Bay.”

Bruce credits Ingram Olkin as being responsible for talking him into most of the interesting and useful things he did outside of CSU Hayward. “First, he approached me in 1973 to ask me to apply for a 1-year term as the first NSF program director for statistics in the Division of Mathematical Sciences. I had just bought a new house and the idea of moving 3000 miles away to become a government bureaucrat for a year was not instantly appealing. This was another Stanford parking lot conversation, but not nearly as brief as the one where I got hired at Hayward. It was clear that the conversation was not going to end before I promised to give the NSF job serious consideration.” A very positive outcome of his several stays at NSF include the

fostering of program director positions—with some resistance from the Old Boy Network—for Nancy Flournoy and Yash Mittal (“who were neither old nor boys”).

Ingram approached Bruce in 1981 to run for IMS Treasurer. He was about to become IMS president and, along with Morris DeGroot, had an idea to start *Statistical Science* (not yet named) as a way to attract more interest and membership for IMS.

Bruce says, “At the time IMS budget planning consisted of multiplying each line in one year’s budget by 1.05 to get the next one, a system that worked just fine at steady state. But Ingram wasn’t interested in steady state. His thinking was that IMS couldn’t start a new journal without a thorough overhaul of its financial structure. This was a shorter conversation. I thought it was a great idea and I was familiar enough with the IMS business office to know he was right about the financial arrangements. The new journal was a hard sell to the Council. A few years before the *Annals of Mathematical Statistics* had split into the *Annals of Statistics* and the *Annals of Probability*. Especially the probabilists were reluctant to destroy the parity by starting a new journal that would likely have more statistics than probability. As it turned out, the financial overhaul that led to *Statistical Science* also made it possible later to start yet another journal, the *Annals of Applied Probability*. Very graciously, the probabilists who had most criticized the financial plan to start *Statistical Science* later told me it turned out to be the greatest thing that ever happened for probability in the IMS.”

In the late 1980s, Shanti Gupta was responsible for getting Bruce deeply

involved in the *Current Index to Statistics* (CIS). Bruce had served part of a term on the management committee when it was time for Shanti to retire as chair. “Shanti

“Summarizing
Bruce’s career
requires tiny type
to reduce his
resumé to just
two pages”

put my name forward to be his successor as chair. This was clearly going to be a time of change for CIS. We were getting increasingly insistent requests for access to CIS info in digital form. Leo Breiman and Bill Eddy were two of the loudest voices for this. Eventually,

I appointed myself as

database editor and put out a preliminary electronic version of CIS. Besides the master, there were only four copies of the first edition of the database. They were tried out at Berkeley, Stanford, Chicago, and Carnegie Mellon. Some were afraid that the electronic version might immediately kill off the paper volumes and CIS would go broke. Instead the markets for the two media turned out to be almost orthogonal, and we doubled our revenue over the first few years. Shanti, Ingram, and board members Barbara Ryan (Minitab) and Roy Milton (NIH) were especially helpful with ideas for solving the political, financial, and technical problems that surrounded the start of electronic CIS. Since then, electronic CIS has gone from floppy disks to CD-ROM to the internet. Some major players since I stopped being chair have been Doug Bates, Ron Thisted, and Alan Zaslavsky.”

Meantime at Hayward, Bruce with George Resnikoff and Heebok Park (also from the University of Chicago) developed bachelors and masters degree programs. They hired many new PhDs, some of whom have moved on to other adventures, including Tar Chen from Carnegie Mellon, Richard Stanley from

Continued overleaf

Profile: Bruce Trumbo, Carver Awardee

Continued from previous page

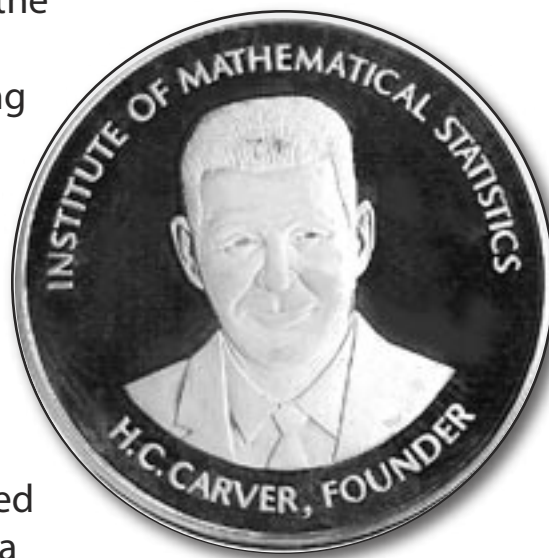
Columbia, Dick Drogin and Richard Kakigi from UC Berkeley, and Minja Paik from Stanford. Among those remaining at Hayward are Dean Fearn from UC Davis, Mike Orkin from UC Berkeley, Elliott Nebenzahl from the University of Minnesota, Julia Norton from Harvard, and, recently, Eric Suess from UC Davis. Besides the over three hundred graduates from our programs who work as statisticians in industry, Bruce has been involved in mentoring most of our graduates who have gone on to doctoral programs in statistics and other fields. Roughly in order of their graduation from our M.S. program, these Ph.D.s include: Wes Johnson, Calvin Chun, Barbara Warsavage, Paul Williams, Jennifer Wolch, George Watson, Theresa Nyachota, Mike LuValle, Lynn Eudey, Jim Bethel, Ann Olmstead, Jim Pedrick, John Egenolf, Ray Dezzani, Robert Thompson, Randy Villa, Eric Suess, Chang Yong Song, Jason Stover, Brian Munneke, Rob Pfefferly, and Louis Villanueva. Current graduates who are students in doctoral programs include: Adam Branscum, Newton Wai, and Thuan Nguyen at UC Davis; Chris Fraser at Purdue; Tom Gwise at U of Virginia; Tanzy Love at Iowa State; and Chris Wong at UC Santa Cruz.

Summarizing Bruce's contributions to the University, to the statistics societies, and to their publications required using tiny type to reduce his resumé to just the front and back of a page! 'Service' indeed summarizes his contributions to all of these areas. I am very pleased to be his colleague.

Julia Norton

The Carver Award

The IMS established the Carver Award at last year's Annual Meeting in Atlanta, Georgia, in order to recognize members who have provided outstanding service to the society and the profession.



Bruce Trumbo, profiled here, was chosen by a committee of past IMS presidents after an international call for nominations. His citation reads:

"For his extraordinary dedication to IMS and the wider statistical profession; for his service as Treasurer, in particular for financial planning for the introduction of the journal *Statistical Science*; for his efforts in the development of electronic publications; for his role as editor of the electronic version of *Current Index to Statistics*; and for his service to the IMS on innumerable committees and in the business office."

The Carver Award memorializes Professor Harry C Carver, of the University of Michigan, who founded in 1930 a new mathematically-oriented statistics journal, *The Annals of Mathematical Statistics*. Five years later this led to the establishment of the IMS as the sponsoring organisation for the new journal, and the societal home for researchers in mathematical statistics. The rest, of course, is history...

New IMS Fellows

The following IMS members, listed in alphabetical order, are announced as 2002 new Fellows. Congratulations to you all!

Arup Bose, Purdue University.

For outstanding and wide ranging contributions to asymptotics, especially the bootstrap, and sequential analysis, and dedicated service to the profession.

Ngai Hang Chan, Chinese University of Hong Kong.

For path breaking contributions to the study of unstable time series, for applications of time series to economics and finance, and for the development of the statistical programs in computational finance and risk management.

Xiru Chen, China University of Science and Technology.

For fundamental contributions to asymptotic theory in linear models, U-statistics, robust and density estimation, leadership for statistical research in China, dedicated editorial and professional service

Dorota M. Dabrowska, University of California, Los Angeles.

For outstanding research in modeling and analysis of censored survival data, and for seminal articles developing estimation methods for multivariate failure time data.

Angela Muriel Dean, Ohio State University.

For outstanding contributions to research and education in the design and analysis of experiments and service to the profession.

Amir Dembo, Stanford University.

For contributions to the theory of large deviations, for applications of the theory to

information theory, statistical physics, and bio-molecular sequence analysis, and for contributions to the study of exceptional points in Brownian motion.

Xuming He, University of Illinois, Urbana-Champaign.

For fundamental contributions to the theory and practice of statistics in a number of areas, including robust statistics, regression quantiles, data smoothing, data depth, and the MCMC bootstrap; consulting in government and industry, including directing the Illinois Statistics Office; excellent teaching and mentoring of young researchers; and service to the profession in editorial and other organizational duties

Tailen Hsing, Texas A & M University.

For fundamental contributions to the theory of extreme value theory, geometric probability and dimension reduction.

Robert Kohn, Australian Graduate School of Management.

For novel and influential contributions to smoothing methods in statistics, time series, computational algorithms and Bayesian statistics; substantial leadership to the profession, through training graduate students and directing the work of one of Australia's leading groups of academic statisticians.

Nitis Mukhopadhyay, University of Connecticut.

For outstanding contribution in sequential analysis and multistage sampling; path-

breaking research in selection and ranking; authoritative books; exemplary editorial service; innovative teaching and advising; and exceptional dedication to preserve and celebrate statistical history through films and scientific interviews.

Yakov Nikitin, St. Petersburg University.

For fundamental contributions to statistical theory and asymptotic techniques of nonparametric statistics; outstanding service as a teacher of statistics in St. Petersburg, as an editor and organizer.

Marepalli Bhaskara Rao, North Dakota State University.

For contributions to probability theory in abstract spaces; research on bilinear time series models, survival analysis and multivariate dependence; and creative and effective teaching at all levels.

Yi-Ching Yao, Academia Sinica.

For his path-breaking contributions to change-point problems and outstanding work in sequential analysis, group testing, probabilistic methods in combinatorics and algorithms, and applied probability.

Victor J. Yohai, University of Buenos Aires.

For his novel, wide ranging and influential research in robust statistics, and for leadership in the development of Statistics in Latin America.

New IMS President-Elect and Council Members: Result of Ballot

Terry Speed, of the University of California, Berkeley, Department of Statistics, has been elected by IMS members as the new President-elect. He will follow Raghu Varadhan. New Council members are

- Alan Karr
- J.S. Marron
- Per Mykland
- David Scott
- Jane-Ling Wang

The IMS Council Members for 2001-2002 are:

Peter Bickel, Peter Donnelly, Wayne Fuller, Evarist Giné, Rob Kass, Wilfrid Kendall, Thomas Liggett, Regina Liu, Peter McCulloch, John Rice, Bill Strawderman, Jessica Utts, Wing Wong, Michael Woodroffe, and Bin Yu

David Ruppert Named Andrew Schultz, Jr. Professor of Engineering

David Ruppert, Cornell U School of Operations Research and Industrial Engineering, has been appointed to the Andrew Schultz, Jr. Professorship of Engineering. The endowed chair is designated for a "leader in the application of both industrial and engineering operations research approaches to problems arising in manufacturing and service organizations."

David, an IMS Fellow, is known for his contributions to generalized and non-linear regression, robustness theory, data transformation and weighting, non-parametric function estimation and measurement error modeling. His research is at the boundary between deep theory and genuine applicability. He is also known for practical statistical solutions to challenging problems as well as fundamental contributions through deep mathematical analysis, which prove the value of a suggested methodology.

David Ruppert's stature, accomplishments, breadth, commitment, professional vision and judgment and will make him a distinguished holder of the Schultz chair.

*Sidney Resnick
Cornell University*

Danyu Lin Named 2002 Myrto Lefkopoulou Distinguished Lecturer

The Department of Biostatistics, Harvard School of Public Health, has named IMS Fellow Danyu Lin, PhD, Dennis Gillings Distinguished Professor at U of North Carolina School of Public Health, as the 2002 Myrto Lefkopoulou Distinguished Lecturer. Dr Lin will present a lecture on Thursday, September 19 at Harvard School of Public Health, entitled "Selection and Assessment of Regression Models". A reception will be held following the lecture.

The lectureship was established in perpetuity in memory of Dr Myrto Lefkopoulou, a faculty member and graduate of Harvard School of Public Health. Dr Lefkopoulou tragically died of cancer in 1992 at the age of 34 after a courageous two year battle. She was deeply beloved by friends, students and faculty.

Each year the Myrto Lefkopoulou Lectureship is awarded to a promising statistician who has made contributions to either collaborative or methodologic research in the applications of statistical methods to biology or medicine and/or has shown excellence in the teaching of biostatistics. Ordinarily, the lectureship is given to a statistician within 15 years of receiving an earned doctorate.

Previous recipients of the Lefkopoulou Memorial Lectureship have been Brad Carlin, Michael Boehnke, Ronald S. Brookmeyer, Steven N. Goodman, Trevor Hastie, Hans-Georg Mueller, Giovanni Parmigiani, Kathryn Roeder, and Louise Ryan.

Nominations for next year's lectureship are welcome and should be sent to the Myrto Lefkopoulou Lecture Committee, Department of Biostatistics, Harvard School of Public Health, 655 Huntington Avenue, Boston, MA 02115. Nominations should include a letter of nomination and a C.V. The deadline for submission of nominations is March 15, 2003.

Edward G Schilling Receives 2002 ASTM Award of Merit



Dr Edward Schilling, professor emeritus at the Rochester Institute of Technology, is to receive the 2002 ASTM Award of Merit, and the accompanying title of Fellow, for "his contributions to developing sampling standards and more than 28 years of service to ASTM Committee E11 on Quality and Statistics". This is the highest Society recognition for individual contributions to standards activities.

Edward is an expert in the field of acceptance sampling, and is widely published in quality control and statistics.

ASTM International, established in 1898, is one of the largest standards development systems, with ASTM standards being used in research and development, product testing, quality systems and commercial transactions.

Letters to the Editor

Letters on any issue of interest to IMS members are welcome. Email your letters to the Editor at bulletin@imstat.org. The Editor's decision about whether to publish letters is final. Letters are submitted on the understanding that they may be edited before publication.

Waiting times "embarrassing"

Dear Editor:

I could not agree more with the sentiments expressed, and remedies proposed, by Professor Larry Wasserman [letter printed in the March/April issue of the *IMS Bulletin*].

The current system in place at most statistics journals cannot help but foster the attitude that statisticians have nothing to say that cannot wait another year.

An experience of my own makes the point.

I recently did some work with two electrical engineers. One had already had an article accepted (by an engineering journal); a researcher elsewhere had obtained a preprint, written an article in response, and had it accepted. All this in less than six months.

It was embarrassing to have to tell my co-workers that we will certainly wait six months or longer for our own submission on the subject—to a statistics journal claiming to be one of the quicker ones—to receive even a first review.

Experiences like this are not uncommon, and should be embarrassing to all in our profession.

Sincerely,

Professor Douglas P. Wiens

Dept of Mathematical and Statistical Sciences, U of Alberta, Edmonton, Canada

Portland State University, Portland, Oregon, is proud to announce to the statistics community that the former Department of Mathematical Sciences is now the Department of Mathematics and Statistics.

"Mathematics" vs "Statistics"?

Dear Editor:

In his regular "Math Guy" feature on NPR's Weekend Edition, on Saturday May 18, Keith Devlin spoke about the role of "Bayesian mathematics" and "Bayesian mathematicians" in homeland security. I happened to be listening so emailed this response to NPR, which was read on the air on Saturday May 25:

"Keith Devlin's typically brilliant commentary about the role of mathematics in homeland security repeatedly emphasized the role of "Bayesian mathematics" and "Bayesian mathematicians" for updating prior threat assessments on the basis of the latest data in the most accurate manner possible. Unfortunately, however, there are no such things as "Bayesian mathematicians" and "Bayesian mathematics" - the correct terms are "Bayesian statistics" and "Bayesian statisticians". Statistics is a distinct discipline which combines techniques from mathematics, experimental design, and computer science to utilize incomplete and uncertain data in an optimally efficient manner. These techniques have been successfully applied to problems as diverse as the first field trials of the Salk polio vaccine, the population sizes of endangered species, and the Census undercount. I hope that Keith will give Statistics and statisticians their due credit in his next commentary."

I received a long and thoughtful reply directly from Keith, to which I also responded. He said that he chose "mathematics" over "statistics" because the word "statistics" conjures up lists of numbers to the layman, rather than the idea of a mathematical discipline. I completely agree with him, and have renewed my campaign to rename our discipline "Statistical Science".

Best wishes,

Professor Michael D. Perlman

Department of Statistics, University of Washington, Seattle

Project Euclid URL Correction

In the May/June issue there was an article highlighting the new free electronic access to recent journals for IMS members. The URL for Project Euclid should have read <http://projecteuclid.org>. Check out what is available using your member ID (from your IMS journal mailing label).



More information about Project Euclid and JSTOR is available on the IMS website at

www.imstat.org/publications/journals/access.phtml

Obituaries

Kali Shankar Banerjee

Professor K S Banerjee, a veteran and distinguished Indian statistician and IMS Fellow, died on Tuesday, April 9, 2002 at his Long Island, NY residence, aged 88.

Born in 1914, Professor Banerjee received his training in mathematics and statistics from the University of Calcutta, earning his PhD in statistics in 1950. His fundamental work on weighing designs in 1948 soon brought him international acclaim.

After serving as a Deputy Director at the West Bengal State Statistical Bureau in West Bengal, India from 1951-62, Professor

Banerjee briefly visited Cornell University (1962-63) and Kansas State University (1964-66, 1968-69), and then accepted a permanent position at the University of Delaware (1969-79), holding the Rodney Sharp Chair Professorship. After retiring from UD, Professor Banerjee joined the University of Maryland Baltimore County (UMBC) as a Visiting Professor, a position he held until his eventual retirement from academic work in 1986.

Professor Banerjee's original contributions in the areas of general linear models,

weighing designs, factorial designs, and theory of index numbers, the areas in which he published widely, continue to have a profound impact in statistics literature.

As well as being an IMS Fellow, he was Fellow of the American Statistical Association, Royal Statistical Society, American Association of the Advancement of Science, and an elected Fellow of the International Statistical Institute. Professor Banerjee will be missed by his colleagues and admirers all over the world.

Bimal K. Sinha

University of Maryland, Baltimore

Indra Mohan Chakravarti

Indra Mohan Chakravarti was born on April 8, 1928 in Nawabganj, Bengal, now a part of Bangladesh. He was one of the top ten of 35,000 students in the Calcutta University Matriculation Examination in 1944. He was attracted to the newly created undergraduate Statistics Honors program in Calcutta's Presidency College, where he distinguished himself by obtaining a first in both the BSc(Hons) and MSc degrees in Statistics.

Indra began his research career at the Indian Statistical Institute, in 1952, where he worked under the guidance of C R Rao, and received his PhD in 1958. Between 1959 and 1964, he visited the University of North Carolina at Chapel Hill, the Case Institute of Technology in Cleveland, Ohio, the University of Geneva in Switzerland and the University of Aberdeen in Scotland. Indra came back to UNC Chapel Hill in the fall of 1964, where from 1968 he was Professor of Statistics. He continued to travel to Switzerland and France during his tenure at Chapel Hill.

Indra's research in the 1950s was in the broad areas of:

- (i) sample surveys and finite population sampling,
- (ii) statistical inference and
- (iii) the design and analysis of experiments.

In the late 1950s, his association with Professor R C Bose was a turning point in his career. It reversed his interest in combinatorial mathematics, the design of experiments and error correcting codes. From the mid 1960s onwards, Indra did his best work primarily in these areas, taking over from Bose as departmental expert on the latter's retirement in 1971.

Between 1969 and 2001, Indra supervised fifteen PhDs, mostly in the area of combinatorial mathematics and design of experiments. He has nearly 50 publications in this area.

He maintained his interest in scientific matters almost till the end of his life. He took a deep interest in the current emphasis on bioinformatics and genomics, and was planning to offer an advanced graduate level course in the coming Fall on the design and analysis of bioinformatics studies with feedback from classical combinatorics and the design of experiments. His death left that task unfulfilled.

Indra is survived by his only son Xavier. His wife Monique died in 1993.



Prof G Kallianpur & Prof PK Sen

Statistics Dept, University of North Carolina, Chapel Hill

Nathan Mantel

Nathan Mantel, whose groundbreaking work at the National Cancer Institute (NCI) brought new tools to medical research, died May 25 at home in Potomac, Maryland, aged 83. He was one of a handful of pioneering biostatisticians whose contributions added new dimensions and understanding to the field of epidemiology and, in particular, cancer research.

Commenting on Nathan's death, Mitchell Gail of NCI said, "He was one of the greatest biostatisticians of the century: an inspiration to younger statisticians and a valuable consultant to laboratory scientists and epidemiologists." Other colleagues said that he preferred to explain the problem and the solution in clearly understood words rather than complex mathematical formulas.

Many of the methods that he developed have become common tools in medical research, biostatistics and epidemiology. Among cancer researchers, he is most famous for the development of his "Mantel-Haenszel Procedure", which was originally used to assess associations between an environmental exposure and cancer risk. His paper on this procedure, published in the *Journal of the National Cancer Institute* in 1959, is one of the most widely cited papers in medical literature, and has influenced the design and analysis of thousands of subsequent epidemiological studies. He also developed the most commonly used method for comparing survival rates. In addition, he devised methods to measure the safety of varying doses of drugs, evaluate diagnostic tests, and assess exposure to radiation.

During his career Mantel published more than 380 professional papers. Professor James H. Ware of the Harvard School for Public Health wrote, "The Mantel test for survival data, a method for comparing two survival distributions, set the course of an

entirely new body of methodology. Nathan's most striking attribute was his remarkable insight, intuition and creativity in attacking new problems. The theoretical basis for some of his contributions were only understood years after he proposed them."

Another Harvard professor, Marvin Zelen, who had worked with Mantel at the NCI, said, "Nathan was a brilliant data analyst. He had a wonderful knack of being able to see though a complicated problem very quickly and then make the equivalent of 'back of the envelope' calculations."

Sam Greenhouse, another NCI pioneer of biostatistics, wrote, "Among statisticians the world over, we had probably the greatest artist of all—Nathan Mantel. No one could match him in quickly identifying the information in the data related to the questions and the swiftness with which he was able to choose an optimum method of analysis. The statistical procedures which bear his name are really nothing compared to his ability to analyze data."

Born in 1919 to impoverished immigrant parents, Mantel grew up in New York and spent some of his adolescence in a Hebrew Orphan Asylum. In later years he attributed part of his success to his innovative teachers at Manhattan's Stuyvesant High School. He graduated in 1939 from City College, NY. Twenty years later, already having published a number of professional papers, he earned his MSc in statistics from American U in Washington.

In 1940, after several low-level federal jobs, including working nights at the Government Printing Office, Mantel was recruited into what became the War Production Board, where his skills helped increase the output of the nation's factories. Later in the war, part of his military service involved statistical analysis of medical research. At the end of the war he returned to the successor to the War Production



Photo from <http://members.aol.com/savilon/nmantel>

Board, but the agency closed down and Mantel found himself without a job.

In 1947, Mantel, drawing unemployment, was sent for a job interview at the National Cancer Institute, and was quickly hired as the third member of a new statistical group. He published his first professional paper three years later.

A recipient of many professional honors, after retiring from the National Cancer Institute in 1974, Mantel served as a research professor at The George Washington University and later at American University. He had been a visiting scientist at the New York University School of Medicine and a visiting professor at the University of Tel-Aviv and a visiting professor in neuroepidemiology at Temple University School of Medicine. He was also a lecturer at the China National Center for Preventive Medicine in Beijing.

He is survived by his second wife, Helen Frey Mantel, and their son David Albin Mantel and stepdaughter Julie Phillips. His first wife, Rhoda Seligson Mantel, from whom he was divorced, died in 1998. From that marriage he is survived by his daughter Amy Mantel Hale and son Eli David Mantel. Another son of that marriage, Jesse Marc Mantel, died in 1990. He is also survived by his youngest sister Anne "Mutzi" Mantel Smith, and his six grandchildren.

Amy Hale & Lauren Hale

IMS Meetings around the world



Joint Statistical Meetings: JSM 2002

August 11-15, 2002, New York, NY

Program now available online at <http://www.amstat.org/meetings/jsm/2002/onlineprogram/index.cfm>

JSM2002 will be co-headquartered at both the New York Hilton and Towers (1335 Avenue of the Americas, 53rd & 54th Streets) and Sheraton New York Hotels (811 Seventh Avenue at 52nd Street). More hotel and program information is available on the JSM website at www.amstat.org/meetings/jsm/2002/.

JSM2002: IMS Welcome Reception for New Members, New Graduates and Students August 13, 5:15-6:45 pm, at Hudson's Sports Bar, Sheraton New York, 811 Seventh Avenue and 52nd Street.

All members who have joined the IMS during the past two years, all IMS New Graduate members and all IMS Student members are encouraged to attend. Appetizers and open bar will be available. If you wish to join the IMS, please come by the reception and applications will be available. Alternatively, you can join online at www.imstat.org. RSVP for the welcome reception to erg@imstat.org. Photos from last year's Welcome Reception are on page 14.

Late Breaking Sessions at the Joint Statistical Meetings:

The Joint Statistical Meetings (JSM) partner societies (IMS; American Statistical Association; International Biometric Society, Eastern and Western North American Regions; and Statistical Society of Canada) have now approved up to two additional session slots, on an as-needed basis, for special invited Late-Breaking Sessions to cover important topics that might emerge close in time to each JSM.

The late breaking sessions will cover: **Breaking the Promise after 9-11: Confidentiality in the Age of Terrorism and Statistical Terminology, Census 2000, and the Supreme Court: Lessons Learned from Utah v. Evans.**

Times and locations at the Hilton New York are:

Tuesday, August 13: Session 186, 10:30 am-12:20 pm, H-Mercury Ballroom

Wednesday, August 14: Session 292, 10:30 am-12:20 pm, H-East Ballroom

THE H. K. NANDI LECTURES AT JSM2002, PRESENTED BY THE FRIENDS OF I.S.I. Sunday, August 11, 12:00-1:45 pm, in Meeting Room: H-Gramercy B

Two expository lectures and discussions from distinguished researchers The Friends of ISI (the Indian Statistical Institute) has arranged special H. K. Nandi Lectures to be held during the Joint Statistical Meetings in New York. Malay Ghosh, University of Florida, Gainesville, is the organizer and chair, and will open the session at 12:05 with some introductory remarks. J. K. Ghosh, Indian Statistical Institute and Purdue University, West Lafayette will talk on "*Adaptive Sampling and Empirical Bayes Analysis For Estimation of Localized Population Segments: Two Case Studies*" from 12:15-12:50, then P K Sen, University of North Carolina, Chapel Hill will talk on "*Bioinformatics: Nonparametrics Perspectives and Controversies*" from 12:50-1:25. There will then be a Floor Discussion until the end of the session.

For more information contact Sujay Datta sdatta@euclid.acs.nmu.edu or Nitish Mukhopadhyay mukhop@uconnvm.uconn.edu

JSM (the Joint Statistical Meetings) is the largest gathering of statisticians held in North America. It is held jointly with the American Statistical Association, The International Biometric Society (ENAR and WNAR), IMS, and the Statistical Society of Canada. Attended by over 4000 people, activities of the meeting include oral presentations, panel sessions, poster presentations, continuing education courses, exhibit hall (with state-of-the-art statistical products and opportunities), a placement service, society and section business meetings, committee meetings, social activities, and networking opportunities. New York City is the host city for JSM 2002 and offers a wide range of possibilities for sharing time with friends and colleagues. For information, contact meetings@amstat.org or phone (703) 684-1221.



IMS Invited Paper Session at the Royal Statistical Society general meeting:**Statistical Analysis of Microarray Data****3-6 September 2002****University of Plymouth, UK**www.tech.plym.ac.uk/maths/research/stats/RSSstalks.html#microarraywww.tech.plym.ac.uk/maths/research/stats/RSS2002.html

Speakers: **Jun Liu**, Harvard U, Dept of Biostatistics, **Jennifer Bryan**, U of British Columbia, Dept of Statistics and Institute of Biotechnology. IMS Organiser **Mark van der Laan**, Dept of Biostatistics and Statistics, U of California, Berkeley.

New developments in biotechnology and the flood of biological data issuing from genome projects have revolutionized the way biological and medical problems are defined, approached and ultimately solved. In this session statisticians working on these biological questions will discuss relevant theoretical background and statistical methods for the analysis of the high dimensional microarray data arising in these experiments.

IMS Sponsored Mini-Meeting:**January 10-11, 2003****University of Florida, Gainesville, Florida.****Conference on Functional Data Analysis**

The Department of Statistics at the University of Florida will host its Fifth Annual Winter Workshop on January 10-11, 2003 in Gainesville, Florida. The workshop will focus on recent developments in functional data analysis (FDA) which is emerging as one of the most important new statistical methodologies with diverse applications in all areas of statistics ranging from image analysis to bioinformatics.

Invited speakers include: Randy Eubank (Texas A & M), Jinxing Fan (U of North Carolina), Rob Kass (Carnegie-Mellon U), Mary Lindstorm (U of Wisconsin), Steve Marron (U of North Carolina), Susan Murphy (U of Michigan), Jim Ramsey (McGill U, Canada), Bernard Silverman (U of Bristol, UK), Brani Vidakovic (Georgia Tech U), Naisyin Wang (Texas A & M)

In addition to invited sessions, the conference will include a contributed poster session. Funds may be available for students and junior researchers from peer institutions who will present a poster in the conference. Interested students and junior researchers should e-mail fundat@stat.ufl.edu. The symposium is organized by George Casella, Alexandre Trindade, Bhramar Mukherjee, Jim Booth, Clyde Schoolfield, Jim Hobert, Brett Presnell and Samuel Wu.

For more detailed information please contact:

Carol Rozear,

Dept. of Statistics,

University of Florida,

P.O. Box 118545, Gainesville,

FL 32611-8545, USA

e-mail: carol@stat.ufl.edu

Phone 352-392-1941 Ext 207

Fax 352-392-5175.

or visit the conference website at:

<http://www.stat.ufl.edu/symposium/2003/fundat/>**IMS Sponsored Mini-meeting****The First Cape Cod Workshop on Monte Carlo Methods****September 13-14, 2002, Cape Cod, MA**

Organizer: Jun S Liu, Harvard U, Boston

<http://www.people.fas.harvard.edu/~junliu/workshop/index.html>**Co-Sponsored Meeting****Seminar on Stochastic Processes 2003****March 27-29, 2003, U of Washington, Seattle**IMS Representative: Chris Burdzy, burdzy@math.washington.edu<http://www.math.washington.edu/~burdzy/SSP2003/>**Sponsored/Numbered Meeting (280)****ENAR/IMS Eastern Regional****March 30-April 2, 2003, Tampa, Florida**Program Chair: Daniel Scharfstein, Johns Hopkins U, dscharf@jhsp.eduContributed Papers Chair: Karl Broman, Johns Hopkins U, kbroman@jhsp.eduDetails posted soon: www.enar.org**Sponsored/Numbered Meeting (281)****IMS New Researchers Conference****July 29-August 2, 2003, U of California, Davis**IMS Program Chair: Richard Levine (U of CA, Davis) levine@wald.ucdavis.eduIMS Local Chair: Juanjuan Fan (U of CA, Davis) jjfan@wald.ucdavis.edu<http://anson.ucdavis.edu/~levine/NRC/>**IMS Invited Paper Session at the****International Statistical Institute, 54th Biennial Session****The Analysis of Gene Expression Data August 13-20, 2003, Berlin**

IMS Organizer: Mike West, Duke U,

mw@stat.duke.edu (speakers are RainerSpang spang@molgen.mpg.de, Max

Planck Institut für Molekulare Genetik;

Sandrine Dudoit, sandrine@stat.berkeley.edu, of UC Berkeley and Mike West)

Last Year's Welcome Reception and Student Mixer in Atlanta



**Were you
there?**

Meetings around the world: Announcements and Information

Göttingen University opens new PhD Program

The Georg-August-Universität Göttingen has opened a new PhD program in Applied Statistics and Empirical Methods starting October 1, 2002. The program is offered by the Center of Statistics and is open to students in Agricultural Science, Biology, Economics, Forest Science, Mathematics, Medicine, or Social Science with a strong background in statistics. All courses are taught in English. Tuition fees are waived and registration fees are less than 200 Euro annually. Scholarships are available for outstanding candidates only. Applicants should hold an MSc (or equivalent). Good knowledge of the English language and statistical methods are required.



Current topics in statistical methods and data analysis techniques are taught by internationally recognized experts. Statistics courses offered by the ZfS include: Financial time series analysis; Smoothing techniques; Genetic epidemiology; Pattern recognition; Resampling methods and algorithms; Survey sampling; Spatial statistics; Survival analysis.

CUTTING EDGE PHD PROJECTS: The three year PhD period emphasizes independent and interdisciplinary research of our students. It is intended that your PhD project results in a major scientific contribution to your field of specialization. Large interest in development and application of current statistical methods and software is expected.

More detailed information about the procedure can be found at www.statistics.uni-goettingen.de.

The 10th International Congress on Mathematical Education, ICME-10 July 4-11, 2004, Copenhagen, Denmark

Under the auspices of ICMI (International Commission on Mathematical Instruction) the 10th International Congress on Mathematical Education, ICME-10, will be held in Copenhagen, Denmark, July 4-11, 2004



The aim of the ICME congresses is to: show what is happening in mathematics education worldwide, in terms of research as well as teaching practices; exchange information on the problems of mathematics education around the world; and learn and benefit from recent advances in mathematics as a discipline.

ICME-10 hopes to attract 3000-4000 researchers in mathematics education, mathematics educators, including teachers, and others working within the educational system, from around 100 countries.

Full information is at www.icme-10.dk

Journal of Concrete And Applicable Mathematics: Scope/Calling For Papers

The *Journal of Concrete and Applicable Mathematics* (JCAAM) is a peer-reviewed International Quarterly Journal, published by Nova Science, NY.

We are calling for high quality papers for publication to JCAAM.

The main purpose of JCAAM is to publish high quality original research articles from all subareas of Non-Pure and/or Applicable Mathematics and its many real life applications, as well as connections to other areas of Mathematical Sciences, as long as they are presented in a Concrete way. It also welcomes related research survey articles and book reviews.

A sample list of connected mathematical areas with this publication includes, and is not restricted to:

Applied Analysis, Applied Functional Analysis, Probability theory, Stochastic Processes, Approximation Theory, O. D. E, P. D. E, Wavelet, Neural Networks, Difference Equations, Summability, Fractals, Special Functions, Splines, Asymptotic Analysis, Fractional Analysis, Inequalities, Moment Theory, Numerical Functional Analysis, Tomography, Asymptotic Expansions, Fourier Analysis, Applied Harmonic Analysis, Integral Equations, Signal Analysis, Numerical Analysis, Optimization, Operations Research, Linear Programming, Fuzzyness, Mathematical Finance, Stochastic Analysis, Game Theory, Math. Physics aspects, Applied Real and Complex Analysis, Computational Number Theory, Graph Theory, Combinatorics, Computer Science Math, related topics, combinations of the above etc.

In general any kind of Concretely presented Mathematics which is applicable fits to the scope of this journal.

Working Concretely and in Applicable Mathematics has become a main trend in many recent years, so we can understand better and deeper and solve the important problems of our real and scientific world.

Interested authors should submit 4 hard copies typed in TEX or LATEX to the Editor-in-Chief, Dr George Anastassiou, by REGULAR MAIL only. We do not accept e-mail submissions and we do not accept registered mail.

George A. Anastassiou, Ph. D
Professor of Mathematics
Department of Mathematical Sciences
The University of Memphis,
Memphis, TN 38152, USA

2003 New Zealand Statistical Association Annual Conference

July 2-4, 2003: Palmerston North, New Zealand

www-ist.massey.ac.nz/stats/nzsa2003/
Contact Duncan Hedderley, IIST, Massey U, Private Bag 11222, Palmerston North, New Zealand, or email D.I.Hedderley@massey.ac.nz

10th Annual Merck-Temple Conference on Research Topics in Pharmaceutical Statistics November 22, 2002: Philadelphia, PA.

Speakers: David DeMets; Ingram Olkin; Sanat Sarkar; Keith Soper; Anastasios Tsiatis; Scott Zeger.

w www.sbm.temple.edu/~biostat **t** (215) 204-8637 **e** boris.iglewicz@temple.edu

The Second Thiele Symposium on Financial Econometrics

October 17-18, 2002: University of Copenhagen, Denmark

Organizers: David Lando, Thomas Mikosch and Michael Sørensen. Web-page: <http://www.math.ku.dk/~michael/thiele2/>

International Conference on Applied Statistics, Actuarial Science and Financial Mathematics

December 17-19, 2002, Hong Kong.

The University of Hong Kong and The Hong Kong Polytechnic University are pleased to host the International Conference on Applied Statistics, Actuarial Science and Financial Mathematics.

The aim of the conference is to provide a forum for researchers, practitioners and educators to share their experience and latest developments in Applied Statistics, Actuarial Science and Financial Mathematics.

Many leading experts and distinguished speakers will give invited talks, among whom are Jianqing Fan, Hans Gerber, Tze Leung Lai, Harry Panjer and Howard Waters.

We welcome papers relevant to the themes of the conference. Abstracts of not more than 200 words should be submitted by September 15, 2002. Submissions should be made electronically via e-mail to icaaf-abpa@hkustasc.hku.hk

Further information about the conference is at: <http://web.hku.hk/~icaaf/>

Justus F. Seely Memorial Conference on Linear Models

July 31 - August 1, 2003, Corvallis, Oregon

A two-day conference on linear models will be held at Oregon State University in memory of Justus F. Seely, a long-time faculty member of the Department of Statistics and an internationally recognized researcher in linear model theory.

Current conference plans include a keynote address, several invited paper and contributed poster sessions, as well as a mid-conference banquet. The conference occurs immediately prior to the Joint Statistical Meetings in San Francisco to allow convenient attendance at both events. Limited financial support will be available to help defray the expenses of student and junior faculty attendees. Visit the conference website, www.oregonstate.edu/dept/statistics/seelyconf, for further information. Updates to the website will be made periodically as conference plans are finalized. Questions concerning the conference may be addressed to the conference co-chairs: Cliff Pereira (pereira@stat.orst.edu; tel. 541 737-1984) and Dave Birkes (birkes@stat.orst.edu; tel. 541 737-1986).

Past IMS Bulletin Editors

Leo Katz (1972-74)

Dorian Feldman (1975-80)

William C Guenther (1981-86)

George P H Styan (1987-92)

Susan R Wilson (1992-97)

Dipak K Dey (1998-2001)

International Conference on Reliability and Survival Analysis

May 21-24, 2003, Columbia, South Carolina

The 2003 International Conference on Reliability and Survival Analysis (ICRSA2003) will be held on May 21-24 on the campus of the University of South Carolina in Columbia. The objectives are to bring together senior researchers, young researchers, and practitioners from around the world in the areas of reliability theory and its applications, survival analysis, and related topics to learn about current work and future trends for research in these areas. There will be both invited and contributed paper sessions with a mix of senior and junior scientists. Also, plenary talks by distinguished leaders in the fields will cover key areas of current research. Sessions devoted to contributed poster presentations by graduate students and beginning doctoral researchers will also be organized. To encourage participation by new researchers, some support for graduate students who are contributing a poster or talk at the conference is expected to be available on a competitive basis. Additional conference information and registration details are available at www.stat.sc.edu/~padgett/ICRSA2003/ or contact Edsel Peña by e-mail at pena@stat.sc.edu.

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Cambridge Healthtech Institute's Second Annual

Microarray Data Analysis

Using Statistics and Standards to Navigate the
Microarray Data Minefield

September 10-11, 2002

Renaissance Washington DC Hotel • Washington, D.C.

SESSION TOPICS

Keynote Presentation

Statistics and Standards for the Omics Revolution

Data Quality and Experimental Design

Focusing on Experimental Design
Designing Gene Expression Studies
Minimizing Data Variation
Assessing Data Reliability

Normalization and Standardization

Using a Standard Data Set
Implementing Microarray Data Standards
Measuring Errors and Data Transformation
Linear Normalization
Probe Profiling
Array Imaging Parameters

Statistical Evaluation

Big Picture of Statistical Analysis
Analysis of Nonnormal Data
Gene Expression Matrices
Phylogenomic Analysis
Robust Singular Value Decomposition
Analysis of Affymetrix Data

Data Interpretation and Analysis (Applications)

Comparison of Expression Patterns in Silico
Post Gene Selection Analysis
Transcript Profiling
Information Management
Time Course Analysis
Model-Based Analysis

Conference Short Courses

Stats 101 for Biologists
Bio 101 for Statisticians
Interactive Data Visualization and Exploration

Cambridge Healthtech Institute's

Data Visualization and Interpretation

Making Breakthroughs Possible in the Omics Revolution

September 12-13, 2002

Renaissance Washington DC Hotel • Washington, D.C.

SESSION TOPICS

Keynote Presentation

Visual Representation in Data Analysis and Management

Data Visualization

Visualizing Gene Regulation
Cluster Analysis
Visualization Tools for Microarrays
3-D Data Visualization and Interpretation

Data Mining

Creating a Collaborative Environment
Experimental Design Issues
Cross-Referencing Biological Information
Enterprisewide Data Management
Life Sciences Discovery Platform
High-Dimensional Analysis and Visualization
Tools for Experimental Design

Data Integration

Visualization of Biological Pathways
Semantic Data Integration
Integrated Data Visualization Techniques
Taking a Chance from Integrated Solutions
Comparison of Genome-Scale Data Sets
Small-Molecule Drug Discovery Process
Data and Application Integration
Customizing Data Integration

Data Interpretation

Accelerating Drug Discovery
Transcript Profiling
Systems Biology Approach
Analyzing Data within a Biological Context
Compensation for the Changing Information
Addressing Critical Issues

Preconference Short Course

Interactive Data Visualization and Exploration

Cambridge Healthtech Institute, 1037 Chestnut Street, Newton Upper Falls, MA 02464
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Cambridge Healthtech Institute's Second Annual

Microarray Data Analysis**Using Statistics and Standards to Navigate the Microarray Data Minefield****September 10-11, 2002****Renaissance Washington DC Hotel • Washington, D.C.**

Microarrays have exploded in the field of biological research. In fact, over 80 percent of laboratories using microarrays expect to increase their utilization over the next year. However, with the "boom" of the technology also comes the need for careful navigation through interpretation of the data minefield. The facilitation of adoption of standards for microarray experimental annotation, data representation, and the introduction of standard experimental controls and data normalization is critical for the resulting "boom" to be either destructive or productive.

Cambridge Healthtech Institute's

Data Visualization and Interpretation**Making Breakthroughs Possible in the Omics Revolution****September 12-13, 2002****Renaissance Washington DC Hotel • Washington, D.C.**

A picture is worth a thousand words and provides instant recognition. Data analysis involves visual, as well as statistical, understanding. Today complete biological data analysis involves a team effort including biological researchers, statisticians, bioinformaticists, database developers, and software engineers. This program is designed to incorporate each specialty into a comprehensive unit to produce yet another beneficial avenue for understanding the overwhelming information produced by biologic research.

*See reverse for programs.***YES! Register me for ■ Microarray Data Analysis ■ Data Visualization****T73MDA02**
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PRICING INFORMATION

	Commercial	Academic, Government, Hospital-Affiliated
<input type="checkbox"/> Data Visualization AND Microarray Data Analysis Registration Fee	<input type="checkbox"/> \$1,705	<input type="checkbox"/> \$820
<input type="checkbox"/> Microarray Data Analysis Registration Fee	<input type="checkbox"/> \$1,190	<input type="checkbox"/> \$570
<input type="checkbox"/> Data Visualization Registration Fee	<input type="checkbox"/> \$1,190	<input type="checkbox"/> \$570

CONFERENCE SHORT COURSES

<input type="checkbox"/> Bio 101 for Statisticians (September 9, 2:00-5:00 pm)	<input type="checkbox"/> \$310	<input type="checkbox"/> \$180
<input type="checkbox"/> Stats 101 for Biologists (September 9, 2:00-5:00 pm)	<input type="checkbox"/> \$310	<input type="checkbox"/> \$180
<input type="checkbox"/> Data Visualization & Exploration (September 11, 5:45-8:45 pm)	<input type="checkbox"/> \$310	<input type="checkbox"/> \$180

☐ I cannot attend but would like to purchase a copy of the documentation ☐ binder OR ☐ CD for \$235 (plus shipping). ☐ Microarray Data Analysis ☐ Data Visualization

TOTAL _____

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☐ Enclosed is a check or money order payable to Cambridge Healthtech Institute, drawn on a U.S. bank, in U.S. currency.

☐ Invoice me, but reserve my space with credit card information listed below. Invoices unpaid one week prior to conference will be billed to credit card at full registration rate. Invoices must be paid in full and checks received by the deadline date to retain registration discount. If you plan to register on site, please check with CHI beforehand for space availability.

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Please send information about related CHI conferences:

- ☐ Pep Talk
☐ Lab-on-a-Chip and Microarrays (MFE)
☐ Deciphering the Data Deluge (MDE)
☐ Macro Results through Microarrays (MAR)

All attendees of CHI's genomic events will receive a complimentary subscription to CHI's *Genome Link* e-newsletter. If you do not wish to receive a subscription, please check this box. ☐

Reports

CHI offers a complete line of reports on all aspects of genomics and related technologies. For information about CHI's Life Science Reports, visit www.chireports.com, or call Cindy Ohlman at 617-630-1334.

Additional Registration Details

Each registration includes all conference sessions, posters and exhibits, one luncheon, one reception, continental breakfasts, all refreshment breaks, and a copy of the document binder.

Group Discounts

Special rates are available for bringing multiple people from the same organization. Contact David Cunningham at Tel: 617-630-1372 to discuss your options and take advantage of the savings.

Handicapped Equal Access

In accordance with the ADA, Cambridge Healthtech Institute is pleased to arrange special accommodations for attendees with special needs. All requests for such assistance must be submitted in writing to CHI at least 30 days prior to the start of the meeting.

Substitution/Cancellation Policy

In the event that you need to cancel a registration, you may:

- Transfer your registration to a colleague within your organization
- Credit your registration to another Cambridge Healthtech Institute program
- Request a refund minus a \$75 processing fee per conference
- Request a refund minus the cost (\$235) of ordering a copy of the document binder or CD

NOTE: Cancellations will only be accepted up to one week prior to the conference.

Program and speakers are subject to change.

Royal Statistical Society, Research Section: Half-day Meeting On Inverse Problems

Call For Papers

The Research Section of the Royal Statistical Society is planning a half-day extended ordinary meeting on **Statistical Approaches To Inverse Problems**. The aim is to bring together statisticians and scientists working in this rapidly developing area. In the tradition of RSS Ordinary Meetings, papers presented at the meeting will be published in JRSS, with discussion.

The organisers are particularly looking for papers which develop generic statistical methodology applicable to a wide range of problems. Possible topics of interest include, but are not restricted to: deconvolution, inverse Laplace and Fourier problems, estimation of surfaces, source separation, model choice issues, tomography, wavelet and multiscale approaches.

The meeting is planned to take place in London in **December 2003**.

Key deadlines are the following:

- authors who wish to present a paper must submit a single-page abstract by 30 September 2002
- authors of selected abstracts will then be invited to submit a full paper of about 10 to 15 journal pages by 28 February 2003
- papers will be subject to refereeing, with feedback to authors by 31 May 2003
- final versions of accepted papers will be required by 30 September 2003.

If you would like to present a paper at this meeting, please send your single-page abstract electronically, as a LaTeX, postscript or PDF file to Christian.Robert@ceremade.dauphine.fr by 30 SEPTEMBER 2002.

Call For Nominations: C.R. And Bhargavi Rao Prize for Outstanding Research in Statistics

The C. R. and Bhargavi Rao Prize is established to honor and recognize outstanding and influential innovations in the theory and practice of mathematical statistics, international leadership in directing statistical research, and pioneering contributions by a recognized leader in the field of statistics. The Rao Prize is awarded by the Department of Statistics at Penn State University to a nominee selected by the members of the Rao Prize Committee.

Nominations for the 2003 Rao Prize should be submitted by December 1, 2002 to: Chair, Rao Prize Selection Committee, 326 Thomas Building, Penn State University, University Park, PA 16802-2111

The Rao prize shall be awarded every two years (odd numbered years) to an individual working in the United States. The award recipient will receive a medal, cash prize and an invitation to visit Penn State and give a talk.

Nominations should include a letter describing the nominee's outstanding contributions to leadership and research in statistics, a current curriculum vita, and two supporting letters. See www.stat.psu.edu for additional information.

Employment Opportunities around the world

AUSTRALIA

The University of Sydney

Applications are invited for a Lecturer/ Senior Lecturer in Bioinformatics in the School of Mathematics and Statistics. The position will be joint with the Sydney University Biological Information and Technology Centre (SUBIT) and the appointee will be located both in the School of Mathematics and Statistics and the Medical Foundation Building. The successful applicant will teach in the Statistics Program of the School of Mathematics and Statistics, will contribute to supervision of students with a special

focus on Bioinformatics and will be expected to participate in statistical research relevant to Bioinformatics.

Essential criteria: a PhD in Statistics; demonstrated computational skills; a good knowledge of theoretical statistics; ability to teach a range of courses in Statistics; good written and verbal communication skills; interest in application of statistics to Biology; ability to work cooperatively with others. Desirable criteria: demonstrated interest in one of the following areas, Models and inference for phylogenetic tree reconstruction; classification trees; stochastic

modelling; analysis of gene sequence data; population genetics.

The position is full-time continuing, subject to a satisfactory probation and/or confirmation period for new appointees.

For further information contact Professor John Robinson phone: 61 2 9351 5773, fax: 61 2 9351 4534 or e-mail: hos@maths.usyd.edu.au

Information on the School and details on methods of application are available from: <http://www.maths.usyd.edu.au:8000/> or <http://www.bio.usyd.edu.au/SUBIT/>

Closing Date: 16 August, 2002

Employment Opportunities continued

CANADA

NSERC FACULTY AWARD, DEPARTMENT OF STATISTICS THE UNIVERSITY OF BRITISH COLUMBIA

The Statistics Department at the University of British Columbia is seeking to nominate a female or aboriginal candidate for a NSERC University Faculty Award in the Fall 2002 competition. Nominees will have demonstrated potential for excellence in teaching and outstanding research in areas consistent with the Department's Academic and Hiring Plans (<http://www.stat.ubc.ca>). Successful nominees would assume tenure-track faculty positions at ranks commensurate with their qualifications, beginning July 1, 2003, with a reduced teaching load for the duration of the award. The University Faculty Award was created by the Natural Science and Engineering Research Council to encourage Canadian universities to appoint very promising female and aboriginal researchers to tenure-track positions in Science and Engineering.

Further information on the program can be found at the NSERC web page (www.nserc.ca/programs/schol4_e.htm). In accordance with the NSERC regulations for the awards, an applicant must be female or an aboriginal person and must be a Canadian citizen or a permanent resident of Canada. An applicant must either hold a doctorate degree, or have completed all the requirements for such a degree by the proposed appointment date. Applicants should submit a CV, preferably by email as a pdf file, to search@stat.ubc.ca, including a list of publications, preprints and reprints along with statements of research activities, research plans and teaching philosophy. In addition, they should arrange for three letters of recommendation to be sent by regular mail to:



Chair, Search Committee
Department of Statistics
University of British Columbia
#333 - 6356 Agricultural Road
Vancouver, BC, V6T 1Z2 CANADA

Applications must be received before September 1, 2002. The University of British Columbia hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply; however Canadian citizens and permanent residents will be given priority.

USA: MASSACHUSETTS

The Williams College Department of Mathematics and Statistics invites applications for one position in statistics, beginning fall 2003, at the rank of assistant professor (in an exceptional case, a more advanced appointment may be considered). We are seeking a highly qualified candidate who has demonstrated excellence in teaching and research, and who will have a Ph.D. by the time of appointment.

Williams College is a private, residential, highly selective liberal arts college with an undergraduate enrollment of approximately 2,000 students.

The teaching load is two courses per 12-week semester and a winter term course every other January. In addition to excellence in teaching, an active and successful research program is expected.

To apply, please send a vita and have three letters of recommendation on teaching and research sent to the Hiring Committee, Department of Mathematics and Statistics, Williams College, Williamstown, MA 01267.

Teaching and research statements are also welcome. Evaluations of applications will begin on or after November 25 and will continue until the positions are filled. Williams College is dedicated to providing a welcoming intellectual environment for all of its faculty, staff and students; as an EEO/AA employer, Williams especially encourages applications from women and underrepresented minorities. For more information on the Department of Mathematics and Statistics, visit <http://www.williams.edu/Mathematics>.

USA: MASSACHUSETTS

Radcliffe Institute, Harvard

The Radcliffe Institute for Advanced Study at Harvard University awards 40 fully funded residential fellowships each year designed to support post-doctoral scholars and scientists of exceptional promise and demonstrated accomplishment. Please check the Web site for more information: www.radcliffe.edu.

Radcliffe Application Office, 34 Concord Ave, Cambridge, MA 02138

t 617-496-1324

f 617-495-8136

fellowships@radcliffe.edu

Applications must be postmarked by October 1, 2002.

CANADA

CANADA RESEARCH CHAIR IN ENVIRONMENTAL AND HEALTH RISK ASSESSMENT, BIOSTATISTICS, OR INTELLIGENT DECISION MAKING AND BAYESIAN ANALYSIS DEPARTMENT OF STATISTICS, THE UNIVERSITY OF BRITISH COLUMBIA

The Department of Statistics at the University of British Columbia is seeking a candidate to nominate for a Junior (Tier II) or Senior (Tier I) Canada Research Chair focused in environmental and health risk assessment, biostatistics or intelligent decision-making and Bayesian analysis. That nomination would be made under the Canada Research Chairs Program (www.chairs.gc.ca) established by the Government of Canada to promote research excellence in Canadian universities. To participate in that program, the University of British Columbia has developed a Strategic Research Plan that emphasizes certain thematic research clusters. The advertised Chairs would be in the clusters called, "Sustainability and the Environment", "Population Health, Services and Human Development" and "Microelectronics and Information Technology", respectively.

Tier I Chairs are intended for research scientists of the highest international stature. In particular, applicants for a Tier I Chair must be full Professors or Associate Professors expected to be promoted to full professorship within two years of the nomination. Alternatively, if they come from outside the academic sector they must possess the necessary qualifications to be appointed at these levels. They are expected to: be outstanding researchers with innovative research accomplishments and major impacts on the field; be internationally recognized leaders; have a superior record in attracting and supervising graduate students, as well as postdoctoral fellows (for nominees coming from the academic sector); develop an innovative and original proposed research program.

Candidates for a Tier II Chair nomination can be relatively new researchers but must have demonstrated exceptional promise and have the potential to become world leaders in the field.

The successful nominee would hold a tenured or tenure-track position and would be appointed in the Department of Statistics that now has 11 regular faculty members, as well as a number of Adjunct Professors, Associate Members, and Professors Emeriti. One has a joint appointment in the Biotechnology Lab. Through its affiliated faculty, the Department has strong ties with the statisticians in the Faculty of Commerce and the BC Cancer Agency and with the probabilists in Mathematics. Similarly, through the Biostatistics Research Group, the Department enjoys active linkages with other biostatisticians at UBC and throughout Vancouver. It hosts a number of post-doctoral fellows and long-term visitors each year. Its Statistical Consulting and Research Laboratory employs several Consultants, a Systems Manager, and two Teaching Lab Managers.

Its graduate programs leading to M.Sc. and Ph.D. degrees are flexible enough to accommodate various interests and combine the study of statistical theory with practical training in applied statistics. Undergraduate studies include Major and Honours programs, a combined Honours program with Mathematics, a joint Majors (BA and BSc) in Economics & Statistics as well as a Major in the Mathematical Sciences offered jointly by Computer Science, Mathematics and Statistics.

Current faculty members are active in a wide variety of research areas. Faculty research fields include Bayesian methods, clinical trials, data mining, decision theory, density estimation, environmetrics, extreme values, image processing, inequalities, longitudinal data, measurement error models, medical statistics, Monte Carlo methods, multivariate models, network design, robustness, sequential methods, smoothing, statistical computing, statistical genetics, and survival analysis. Faculty have established collaborations with other UBC research groups in areas such as data mining, environmental hygiene, medical genetics, multiple sclerosis, neurodegenerative disorders, ophthalmology, psychology, and respiratory medicine, as well as with government agencies and private organizations.

The Statistical Consulting and Research Laboratory, in addition to providing consultation to subject-area researchers, provides research support for statistical researchers, opportunities for collaborative research, training for graduate students, short courses on statistical science and statistical computing for various research communities, and an infrastructure for the development and testing of statistical software. The Lab maintains a research-computing network with Unix servers and thus provides state-of-the-art statistical research software.

To be considered for nomination, candidates should send the names and addresses of at least three [3] individuals who are at "arms length", to serve as references. These individuals should be established authorities in the field who have not been the applicant's collaborators within the last five years, are not affiliated with his or her institution and are not involved in the individual's research program. Also excluded is anyone with whom the nominee has a personal relationship. Candidates should also send a current CV, preferably by email as a pdf file, including a statement of research interests by **September 2, 2002 to search@stat.ubc.ca, or alternatively to the Search Committee, Department of Statistics, #333-6356 Agricultural Road, University of British Columbia, Vancouver, British Columbia, CANADA, V6T 1Z2.**



The start date would be negotiable, but is nominally July 1, 2003. There is no restriction with regard to nationality or residence, and the position is open to all candidates. Offers will be made in keeping with immigration requirements associated with the Canada Research Chairs program. UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply.

MEXICO

Tenure track/visiting positions in Probability and Statistics**Centro De Investigacion En Matematicas, Guanajuato, Gto., Mexico**

The Department of Probability and Statistics (<http://random.cimat.mx/~pye/>) announces the opening of two open-level tenure track/visiting positions, starting February 2003. The candidates should have a Ph. D. in Statistics or Mathematics and a strong commitment for teaching and continuing and directing research in the areas of Statistics, Probability and their applications. We require good communication skills. Conversational knowledge of Spanish is a plus.

Salaries will depend on qualifications. Applications should include curriculum vitae, a summary of research interests and projects of the candidate, and three letters of recommendations which should describe in some detail the candidate's teaching and research qualifications. It would be useful to include a copy of the academic transcripts and diplomas.

Review of applications will begin on October 1st, 2002. Visiting position applicants should indicate the part of the year they wish to visit. The positions will remain open until filled. Applications should be sent to: Departamento de Probabilidad y Estadística, Centro de Investigación en Matemáticas, Apartado Postal 402, 36000 Guanajuato, Mexico.

Fax: +52 473 7325749

Contact person: Jose Alfredo Lopez Mimbela

UNITED KINGDOM

The University of Nottingham

SCHOOL OF MATHEMATICAL SCIENCES

Lecturer in Statistics

Applications are invited for the above post available from 1 February 2003 or an alternative date by mutual agreement.

Candidates should have achieved research distinction or have outstanding research potential in a branch of statistics, and will be strongly committed to high quality teaching. The Unit of Assessment for Statistics and Operational Research at the University of Nottingham was graded 5A in the 2001 Research Assessment Exercise. The successful candidate will be expected to contribute to maintaining and enhancing our research record.

Salary will be within the range £20,470 - £32,537 pa, depending on qualifications and experience.

Informal enquiries may be addressed to Professor F G Ball,
tel: 0115 951 4969 or Email: Frank.Ball@Nottingham.ac.uk.

Further information about the Division of Statistics is available on the WWW at <http://www.maths.nott.ac.uk/statsdiv>.

Further details and application forms are available on the WWW at: <http://www.nottingham.ac.uk/personnel/vacancies/academic.html> or from the Personnel Office, Highfield House, The University of Nottingham, University Park, Nottingham NG7 2RD. Tel: 0115 951 3263. Fax: 0115 951 5205. Email: Personnel.Applications@Nottingham.ac.uk.

Please quote ref. RUB/460S. Closing date: 23 August 2002.

HONG KONG, R.O.C.

The Hong Kong University Of Science And Technology, Department of Mathematics

The Department of Mathematics invites applications for faculty positions at the rank of Associate Professor or Assistant Professor from all areas of mathematics with preference on statistics and applied mathematics.

Exceptionally strong research and teaching experience is required. Applicants must demonstrate excellence in teaching and proven ability to teach effectively in English.

Starting rank and salary will depend on qualifications and experience. Benefits including medical and dental benefits, and assistance in housing will be provided where applicable. Initial appointment will normally be on three-year contract. A gratuity will be payable upon successful completion of contract.

Applicants should send a curriculum vitae and ask at least three referees to send letters of recommendations direct, before **30 November 2002** to the Personnel Office, HKUST, Clear Water Bay, Kowloon, Hong Kong [Fax: (852) 2358 0700]. More information about the University is available on the University's homepage <www.ust.hk>.

(Information provided by applicants will be used for recruitment and other employment-related purposes.)

THE NETHERLANDS

EURANDOM vacancies in statistics

PhD studentship Postdoctoral Fellows

The **Phd student** will be appointed in the framework of the research project entitled "**Battery Management**". Batteries have become very important for portable equipment such as telephones, computers and other similar devices. Various battery types are available for these purposes and, although their chemical description is currently satisfactory, complex mathematical problems still need to be investigated.

The work will be carried out in close collaboration with a post-doctoral fellow at EURANDOM, in regular contact with researchers of the Eindhoven University of Technology (TU/e) and with the Research Laboratory of Royal Philips Electronics, all three at Eindhoven. The task includes the publishing of the research results in international journals and a completed PhD dissertation.

Postdoc positions: There are several positions available in the area of Statistics.

EURANDOM is a European research institute for the study of random phenomena. It conducts research in mathematical applied statistics, probability theory, stochastic operations research and their applications. EURANDOM is located at the campus of Eindhoven University of Technology in the Netherlands.

The research programmes are carried out by postdocs and graduate students, coordinated by senior scientists in the relevant areas. Workshops, seminars and an extensive visitors' programme are part of the scientific activities of EURANDOM.

Requirements

PhD student: We need an energetic person with high qualification in mathematics as well as familiarity with programming and programming languages. An enthusiasm for scientific and industrial applications would be an advantage. The ability to communicate effectively with a variety of professionals is also important. The position is available for four years subject to a positive review at the end of year one. During this period of four years a thesis will be prepared, resulting in the degree of Doctor.

Postdocs:

Candidates should have a strong background in statistical theory and methods. Examples of relevant areas are: statistical process control, design of experiments, time series, nonparametric statistics, multivariate statistics or control theory, spatial statistics, image analysis, statistical inverse problems (such as computer tomography), neural networks, curve and surface estimation

Postdocs will work in a mix of industrial projects and theoretical work on a broad range of topics of relevance to industrial statistics. Postdoctoral fellows typically receive an appointment for 2 years with a possibility of extension.

Candidates for all positions are encouraged to send a letter of application, together with a curriculum vitae with full educational details to:

Prof.dr. W.Th.F. den Hollander, Scientific Director,
EURANDOM, P.O. Box 513, 5600 MB Eindhoven, the Netherlands.

Phone: + 31 40 247 8100; fax: + 31 40 247 8190; e-mail: office@eurandom.tue.nl.

Requests for further information may be sent to the same address.

For more information about EURANDOM, please consult: <http://www.eurandom.tue.nl>.



International Calendar of Statistical Events

IMS meetings are highlighted in **maroon** with the  logo and new or updated entries have the  symbol. **t** means telephone, **f** fax, **e** email and **w** website. Please send additions and corrections to Tati Howell at bulletin@imstat.org

2002

July

1-5: Melbourne, Australia. 28th Conference on Stochastic Processes and their Applications, under the auspices of the Bernoulli Society for Mathematical Statistics and Probability. **w** www.spa28.ms.unimelb.edu.au

3-5: Leeds, UK. Statistics of Large Datasets: Functional and image data, bioinformatics and data mining. 21st Leeds Annual Statistical Research Workshop: Robert Aykroyd **w** www.maths.leeds.ac.uk/Statistics/workshop

7-10: Academia Sinica, Taiwan, R.O.C. The 2002 Taipei International Statistical Symposium and Bernoulli Society EAPR Conference. **w** www.stat.sinica.edu.tw/2002symp

7-11: Canberra, Australia. 16th Australian Statistical Conference. **w** www.statsoc.org.au/asc16.html

7-12: Durban, South Africa. International Conference on Teaching Statistics ICOTS-6, International Convention Centre in Durban. **w** www.beeri.org.il/icots6/

 **15-19:** Crete, Greece. Current Advances and Trends in Nonparametric Statistics: Bernoulli/IMS/ Nonparametrics Section of ASA. **w** www.stat.psu.edu/~npconf/

 **July 28-August 1:** Banff, Canada. IMS Annual Meeting. www.stat.cornell.edu/news/imsmeeting/frontpage.htm

July 31 - August 2: Banff, Canada. 4th International Symposium on Probability and its Applications. **w** www.math.wisc.edu/~annprob/banff/banff.htm


August

4-7 Bethesda, Maryland. 3rd International Conference on Multiple Comparison

Procedures (MCP2002). Ajit Tamhane **e** ajit@iems.northwestern.edu or Peter Westfall **e** westfall@ba.ttu.edu **w** www.ba.ttu.edu/isqs/westfall/mcp2002.htm

4-9: Neuchâtel, Switzerland. Fourth International Conference on Statistical Data Analysis Based on the L1 Norm and Related Methods **e** L1.norm@unine.ch or yadolah.dodge@unine.ch **w** www.unine.ch/statistics

10-11: New York, NY. Pathways to the Future: workshop running on the Saturday evening and Sunday preceding JSM, primarily for young women researchers. Funding for US-based scientists provided by NSF. Lynne Billard, Department of Statistics, University of Georgia, Athens GA 30602-1952 **t** 1-706-542-3281, **f** 1-706-542-3391, **e** lynne@stat.uga.edu

 **11-15:** New York, NY. Joint Statistical Meetings (ASA/IMS/ENAR/WNAR/SSC) [See feature on page 12] Including IMS Welcome Reception August 13, and HK Nandi Lectures August 11 **w** www.amstat.org/meetings/jsm/2002/

15-17 Singapore. Symposium on Stochastics and Applications (SSA). The Organizing Committee, SSA 2002, c/o Department of Mathematics, National University of Singapore, 2 Science Drive 2, Singapore 117543, Republic of Singapore **f** 65-779 5452 **e** ssa@math.nus.edu.sg **w** www.math.nus.edu.sg/ssa

17-23: Ammarnäs, Sweden. Baltic-Nordic Conference on Survey Sampling. **w** www.matstat.umu.se/banocoss **e** banooss@matstat.umu.se

19-23: Prague, Czech Republic. 24th European Meeting of Statisticians, organized jointly with the 14th Prague Conference on Information Theory,

Statistical Decision Functions and Random Processes. Martin Janzura, Institute of Information Theory and Automation, POB 18, 182 08 Praha 8, Czech Republic **t** 420-2-6605 2572 **f** 420-2-688 4903 **e** janzura@utia.cas.cz **w** siprint.utia.cas.cz/2494#94ems/

29-31: Lyngby, Denmark. EIWMS-2002: The Eleventh International Workshop on Matrices and Statistics in Celebration of George P. H. Styan's 65th Birthday. **w** www.imm.dtu.dk/matrix02/

30-September 2: Venice, Italy. Fifth International Conference on Forensic Statistics, ICFS5. Julia Mortera **e** icfs5@eco.uniroma3.it **w** icfs5.eco.uniroma3.it

September

 **3-6:** U of Plymouth, UK. IMS Session at the RSS International Conference: Statistical Analysis of Microarray Data. Speakers: Jun Liu, Harvard U, Jennifer Bryan, U British Columbia, Mark van der Laan, U California, Berkeley. **w** www.tech.plym.ac.uk/math/research/stats/RSS2002.html

 **10-13:** Washington DC. Microarray Data Analysis & Data Visualization and Interpretation. **w** www.healthtech.com

  **13-14:** Cape Cod, MA. First Cape Cod Workshop on Monte Carlo Methods. IMS Sponsored Mini-meeting Organizer: Jun S Liu, Harvard U **w** www.people.fas.harvard.edu/~junliu/workshop/index.html

13-14: Ames, Iowa. Topics in Linear Algebra (and Its Applications in Statistics). Huaiqing Wu, Department of Statistics, Iowa State University, Ames, IA 50011; **t** (515) 294-8949 **f** (515)-294-4040 **e** isuhwu@iastate.edu **w** www.math.iastate.edu/lhogben/TLA/homepage.html



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741-01

International Calendar continued

18-20: Chamonix, France. 2nd Euro-Japanese Workshop on Stochastic Modelling for Finance, Insurance, Production and Reliability **w** www.dma.utc.fr/Workshop/index.htm


23-24: Rimini, Italy. The European Network for Business and Industrial Statistics (ENBIS). Fabrizio Ruggeri, CNR IAMI, Via A.M. Ampere 56, I-20131 Milano, Italy **w** www.iami.mi.cnr.it/~fabrizio **t** +39 0270643206 **f** +39 0270643212 **e** fabrizio@iami.mi.cnr.it

24-27: Malaga, Spain. Third International ICSC Symposium on Engineering of Intelligent Systems. ICSC-NAISO (Operating Division), PO Box 1091, 3360 BB Sliedrecht, The Netherlands **t** +31-184-496999 **f** +31-184-421065 **e** eis2002@ITStransnational.com (Operating Division), planning@icsc.ab.ca (Planning Division)

25-28: Porto, Portugal. 10th Conference of the Statistical Portuguese Society (SPE) including a tutorial on "Heterocedastic Models, Applications with EvIEWS software" on 25 September. Registration and abstract submission until May 15. www.fep.up.pt/spe2002

October

11-12: Texas A&M University. Frontiers of Statistical Research: a Celebration of the 40th Anniversary of the Department of Statistics. Thomas Wehrly **t** 979-845-3151 **f** 979-845-3144 **e** twehrly@stat.tamu.edu **w** stat.tamu.edu/40thanniversary

 **17-18:** U of Copenhagen, Denmark. 2nd Thiele Symposium on Financial Econometrics. **w** www.math.ku.dk/~michael/thiele2

18-19: Northwestern University, Evanston, Illinois. 24th Midwest Probability Colloquium. Speakers: Oded Schramm (Weizmann Institute/Microsoft), Amir Dembo (Stanford), Fraydoun Rezakhanlou (Berkeley). Thursday Program tutorial lectures on Thursday, October 17 by Yuval


Peres (UC Berkeley) and Balint Virag (MIT). Local organizer Mark Pinsky **e** mark.pinsky@math.nwu.edu **w** www.math.nwu.edu/mwp

21-23: Sydney, Australia. International Clinical Trials Symposium, hosted by the NHMRC Clinical Trials Centre, University of Sydney. **e** enquiry@ctc.usyd.edu.au **w** www.ctc.usyd.edu.au/4news/Symposium2002/ICTS_home.htm

31 - November 3: Schloss Hohenried, Bernried, near Munich, Germany. EWSM (Euroworkshop on Statistical Modelling): Model Building and Evaluation. Goeran Kauermann, Department of Statistics, University of Glasgow, Mathematics Building, University Gardens, Glasgow G12 8QW, UK **e** goeran@stats.gla.ac.uk **w** www.stat.uni-muenchen.de/euroworkshop/2002.html


November

14-17: Charleston, South Carolina. International Conference on Questionnaire Development, Evaluation and Testing. Jennifer Rothget, U.S. Census Bureau, Center for Survey Methods Research/SRD/FB #4, Rm. 3125, Washington, D.C. 20233 **t** (301) 457-4968 **e** jennifer.m.rothgeb@census.gov

 **22:** Philadelphia, PA. 10th Annual Merck-Temple Conference on Research Topics in Pharmaceutical Statistics. **w** www.sbm.temple.edu/~biostat

December

9-13: Savannah, GA. 9th Annual Biopharmaceutical Applied Statistics Symposium: 12 tutorials, 4 short courses, on topics related to research, development & regulation of pharmaceuticals, with emphasis on biostatistics. **e** KEPeace@gasou.edu

 **17-19:** Hong Kong. International Conference on Applied Statistics, Actuarial Science and Financial Mathematics. **w** <http://web.hku.hk/~icaaf>

17-21: Cochin, India. International Conference on Stochastic Modelling and IV International Workshop on Retrial Queues. Chair: A Krishnamoorthy, Dept of Mathematics, Cochin University of Science and Technology, Cochin - 682022, India **e** ak@cusat.ac.in. Co-Chair: J R Artalejo, Dept of Statistics and OR, Complutense University, Madrid, Spain, **e** jesus_artalejo@mat.ucm.es

22-23: Trivandrum, Kerala, India. Statistics in the 21st Century. Dr N Krishnan Namboodiri, Ohio State University, Columbus, OH 43210, USA **t** 614-292-2308 **e** namboodiri.2@osu.edu or Dr P Sadasivan Nair, Population Centre, University of Kerala, Trivandrum, India **t** 418057 **e** psnair@vsnl.com

28-30: Chennai, Tamilnadu, India. Ranking and Selection, Multiple Comparisons, Reliability, and their Applications. N Balakrishnan, McMaster U, **e** bala@mcmail.cis.mcmaster.ca N Kannan, U of Texas at San Antonio, **e** nkannan@utsa.edu H N Nagaraja, Ohio State U, **e** hnn@stat.ohio-state.edu

2003

January

2-4: Cochin, India. Statistics in Industry & Business. Contact Bovas Abraham, U of Waterloo, Canada **t** 519-888-4593 **f** 519-746-5524 **e** babraham@uwaterloo.ca **w** www.iiqp.uwaterloo.ca

  **10-11:** U of Florida, Gainesville, FL. Fifth Annual Winter Workshop: Conference on Functional Data Analysis. IMS Sponsored Mini-meeting. Funds available for students and junior researchers: **e** fundat@stat.ufl.edu. Contact Carol Rozear **e** carol@stat.ufl.edu **t** 352 392 1941 **w** www.stat.ufl.edu/symposium/2003/fundat

March


  **27-29:** U of Washington,

Seattle. Seminar on Stochastic Processes. Co-sponsored meeting. IMS Rep Chris Burdzy: **e** burdzy@math.washington.edu **w** www.math.washington.edu/~burdzy/SSP2003

 **NEW** 30-April 2: Tampa, FL.

ENAR/IMS Eastern Regional (Sponsored/Numbered meeting 280). Program Chair: Daniel Scharfstein, Johns Hopkins U **e** dscharf@jhsph.edu Contributed Papers Chair: Karl Broman, Johns Hopkins U **e** kbroman@jhsph.edu Details will be posted soon at **w** www.enar.org

May

 **NEW** 21-24: Columbia, South Carolina. International Conference on Reliability and Survival Analysis. **w** www.stat.sc.edu/~padgett/ICRSA2003


June

9-12: (note new contact information) KIMEP, Almaty, Kazakhstan. ASIM 2003, International Conference on Advances in Statistical Inferential Methods. (theory and applications) **w** www.kimep.kz/research/asim **e** voinov@kimep.kimep.kz

23-26: Dublin, Ireland. International Symposium on Forecasting, ISF2002. John Haslett, Department of Statistics, Trinity College, Dublin 2, Ireland **t** +353 1 6081114 **f** +353 1 6615046 **e** john.haslett@tcd.ie **w** www.isf2002.org

24-27: Technical U of Gdansk, Poland. 1st World Congress on Information Technology in Environmental Engineering (ITEE2003) **w** www.icsc-naiso.org/conferences/itee2003

July

 **NEW** 2-4: Palmerston, New Zealand. NZ Statistical Association Annual Conference. **w** www-ist.massey.ac.nz/stats/nzsa2003


14-18: University of Antwerp, Belgium. International Conference on Robust Statistics 2003 (ICORS2003) **e** statis@uia.ua.ac.be **w** win-www.uia.ac.be/u/icors03.htm

 **NEW** 29-August 2: U of California, Davis. IMS New Researchers Conference

(Sponsored/Numbered meeting 281). Program Chair: Richard Levine, U of California, Davis **e** levine@wald.ucdavis.edu IMS Local Chair: Juanjuan Fan, U of California, Davis **e** jjfan@ucdavis.edu **w** www.anson.ucdavis.edu/~levine/NRC

 **NEW** 31-August 2: Corvallis, OR. Justus Seely Memorial Conference on Linear Models. **w** www.oregonstate.edu/dept/statistics/seelyconf


August

 3-7: San Francisco, CA. Joint Statistical Meetings (ASA/IMS/ENAR/WNAR) including IMS Annual Meeting 10-20: Berlin, Germany: International Statistical Institute, 54th Biennial Session.

Includes meetings of the Bernoulli Society, The International Association for Statistical Computing, The International Association of Survey Statisticians, The International Association for Official Statistics and The International Association for Statistical Education. Including IMS Invited Paper Session: contact Mike West **mw@stat.duke.edu**

2004

July

 **NEW** 4-11: Copenhagen, Denmark. 10th International Congress on Mathematical Education. **w** www.icme-10.dk

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In the next issue (September/ October 2002)

Reports from the IMS Annual Meeting, plus news from members around the world, meeting announcements and job opportunities. Send in your articles, feedback, letters...

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