



WASHINGTON  
STATISTICAL  
SOCIETY

# WSS NEWS

## May 1995

### Election Ballot

An election ballot for the 1995-1996 program year of the Washington Statistical Society Board of Directors is enclosed in this issue. Biographical information on the candidates is provided on pages 3 and 4. Ballots must be received by Friday, May 26, 1995 to be counted. Results will be announced at the WSS Annual Dinner at Casablanca Restaurant in Alexandria, VA on Wednesday, June 14, 1995.

### Presidential Invited Address

Victor Cohn, former science editor for the Washington Post, and "one of the country's best science reporters" according to the New York Times, will give this year's Presidential Invited Address. His talk, entitled "NEWS AND NUMBERS: How Reporters Can Tell Facts from Lies, How You can Help Them," will be based on his extensive experience writing about science and medicine for the Minneapolis Tribune and the Washington Post and his book NEWS & NUMBERS: A Guide to Reporting Statistical Claims and Controversies in Health and Other Fields. Commentary will be provided by Miron Straf, Director, Committee on National Statistics, National Academy of Sciences, and Mary Hanson, Public Affairs Specialist, Office of Legislative and Public Affairs, National Science Foundation (NSF). WSS President, Sue Ahmed, will chair the meeting, which will be cosponsored by NSF's Division of Science Resources Studies.

The event will be held at NSF in Room 375 on May 30 from 3:00-4:30 PM. Refreshments will be served after the talk. NSF is located at 4201 Wilson Blvd., Arlington, Virginia (Orange Line - Ballston Metro). See the enclosed flyer for further information.

<b>WSS Seminars</b>		
(All events are open to any interested persons)		
<b>May</b>		
5	Fri.	Statistics and the Question of Standards
8	Mon.	Postmodern Data Analysis: The End of Statistics
11	Thur.	The CPS After the Redesign: Refocusing the Economic Lens
17	Wed.	Updating and Reconstructing USDA Price Indexes
18	Thur.	The Future of Colleges of Agriculture at Land Grant Universities
18	Thur.	Developing an Estimation Strategy for a Pesticide Data Program
19	Fri.	Accounting for Confounders Observed Post Randomization for Discrete and Continuous Repeated Measures Data
30	Tues.	Presidential Invited Address: NEWS AND NUMBERS: How Reporters Can Tell Facts from Lies, How You can Help Them

**Call (703) 803-8109 for up-to-date information.**

## Announcements

### Open Board Meeting

The Board of Directors of the Washington Statistical Society generally meets on the last Tuesday of each month. While interested members are welcome to attend at any time, the by-laws provide for at least one open meeting.

This year the WSS Board invites all members to attend its open meeting on Tuesday, May 30, 1995. The meeting will be held at the BLS Cognitive Lab, Postal Square Building, Room 2990, 2 Massachusetts Avenue NE, Washington, DC from 12:30 - 2:00 PM (Red Line - Union Station). Enter at Massachusetts Avenue and North Capitol Street.

The open meeting is an opportunity for members to learn more about WSS and possibly become involved in some of the many and varied activities WSS sponsors. We look forward to seeing you there.

### Quantitative Literacy

On March 24th and 25th, ASA held a pilot for its new workshop on Data Driven Curriculum in Manassas, VA. The 40 participants were mainly the math officials in charge of representing the public school system for their county; these participants are considered to be the "movers and shakers" of the QL movement. WSS provided five statisticians (Jeff Bailey, NASS; Shail Butani, BLS; Robert Clickner, Westat; and Laura Gooding, Price Waterhouse) to network with the school officials. The new QL pamphlets were distributed to each participant. There was great demand for these pamphlets as participants asked for additional copies. In all, about 250 copies were distributed. As a result, we can expect to see increased QL activities in all counties. We will, therefore need additional volunteers. If you can spare a few hours per year, please contact Kirk Mueller at 202-606-6352.

Last September, Shail Butani, QL Coordinator for the D.C. Metropolitan Area, chaired a WSS session on Quantitative Literacy. Several

jurisdictions have recently been incorporated into the QL effort. Tamara Sue Zimmerman is the first county coordinator for Loudoun County; and Dan Ramey is initiating the QL effort in Arlington County. In the District of Columbia, QL efforts have begun into the public school system. In Fairfax County, co-coordinators Diem-Tran Kratzke and Jill Montaquila met in November with Ron Zirkle, mathematics curriculum teacher for Fairfax County Schools. Since then, several requests for speakers have been received from Fairfax County. In addition, volunteers in Fairfax County have assisted with Career Day activities. We would like to acknowledge the volunteers who have taken part in QL activities to date in Fairfax County this academic year: Susan Ahmed, Yahia Ahmed, Wendy Alvey, Mary Batcher, Sharon Bobbitt, Bob Clickner, Susan Cowles, John Gaudiosi, Gloria Gridley, Tom Harahusa, Don Keathley, Joseph Koshansky, Diem-Tran Kratzke, Karen O'Connor, Terry O'Connor, Sid Schwartz, Andy Spisak, Armentia Thomas, Bill Weaver, Steve Woodruff. We would especially like to thank Mary Batcher and Terry O'Connor, who have kindly and generously helped us find speakers.

## Biographical Information

### 1995 Candidate for Office on the WSS Board of Directors

Please mark your selection on the enclosed ballot and return to the address on the reverse side of the ballot by Friday, May 26, 1995.

#### President-Elect (President 1996):

John Czajka is a Senior Sociologist at Mathematica Policy Research, Inc., where he has been employed since 1978. John has a Ph.D. in Sociology from the University of Michigan. Since 1983 he has directed a series of statistical support contracts with the Statistics of Income Division of the Internal Revenue Service. This work has included the evaluation of current methodologies and the development of new procedures for handling incomplete data and addressing problems of nonsampling error in a number of contexts. In recent years John has devoted much of his research to issues involving the representativeness of panel data. He is a member of the ASA Survey Research Methods Working Group on the Technical Aspects of the Survey of Income and Program Participation. John has been active with WSS since 1986, serving as a member of the Board of Directors through 1993. From 1991 through 1993 he was the WSS (and ASA district) representative on the governing board of the ASA Council of Chapters.

Phillip S. Kott is the Chief Research Statistician, Research Division, National Agricultural Statistics Research Service, U.S. Department of Agriculture. Phil began his government career as an economist with the Bureau of Labor Statistics in 1978. He has also worked for the Energy Information Administration as an economist and the Census Bureau as a statistician. Phil was an organizer of the ASA sponsored International Conference on Establishment Surveys and an associate editor of the conference monograph, *Business Survey Methods*. He has taught courses in intermediate and advanced survey sampling theory at the USDA Graduate School. He has been on the Board of the WSS, serving as the methodology program and section chair. Phil has a Ph.D. from Brown University in economics, but most of his statistical focus has been on survey sampling issues, in particular sample design, weighting for nonresponse, and the analysis of complex survey data.

#### Methodology Chair-Elect (Chair 1996):

Yahia Ahmed is Chief, Mathematical Statistics Section, Statistics of Income Division, Internal Revenue Service. He has an M.S. degree in statistics from Iowa State University. Yahia has served on the Federal Committee on Statistical Methodology's Subcommittee on Data Editing in Federal Statistical Agencies. His areas of interest include design-based and model-based sampling and data editing.

Julia L. Bienias has a master's degree in psychology from Washington University and a doctoral degree in biostatistics from Harvard. After working on questionnaire design research at the Bureau of Labor Statistics, she joined the Census Bureau as a Mathematical Statistician in January of 1989. While in the Demographic Statistical Methods Division, she was involved in research for the sample redesign of the household surveys and on producing lifetables for the National Longitudinal Mortality Study. Julia is one of eight Math Stats chosen for a rotational management training program at Census, working on editing and outlier detection. She is currently in the Statistical Research Division, working primarily on modelling and estimation of

program participation spells for the SIPP. Julia's interests include analysis of longitudinal survey data, survival analysis, measurement error models, and questionnaire design. She served on the local arrangements committee in 1992.

**Representatives-at-Large (1995-1997):**

**Johnny Blair** is currently Associate Director of the Survey Research Center, University of Maryland. Prior to that, he was Operations Manager and Head of Sampling at the Survey Research Laboratory, University of Illinois. He has a BA in Political Science and Mathematics. His research interests include telephone sample designs, proxy reporting and evaluation of alternative pretesting methods. Currently, he serves on the editorial board of Public Opinion Quarterly and the executive committee of the National Network of State Polls. His book with Ronald Czaja, *Designing Surveys: A Guide to Decisions and Procedures*, will be published this summer by Pine Forge Press.

**Carolee Bush** is Manager of Products and Services Information at the Bureau of Transportation Statistics, Department of Transportation. Prior to joining the Bureau, she was Director of Chapter and Section Relations at the American Statistical Association for over 6 years. She has a bachelor's degree in Applied Behavioral Sciences from National-Louis University. Her areas of interest are in statistical coordination and outreach. While at ASA, Carolee worked with ASA's 79 Chapters and 20 Sections, their Governing Boards, various ASA Committees, and the Board of Directors, as well as administering the ASA/NSF Fellowship Programs.

**Robert Latta** is a Mathematical Statistician in the Energy End Use and Integrated Statistics Division of the Energy Information Administration (EIA). Robert has worked for EIA since 1980. He received his Ph.D. from Stanford University in 1976. His main areas of interest include small area estimation, survey design, imputation for item nonresponse, and the application of non-linear regression techniques in the analysis of energy consumption data.

**Phillip Ross** is the Director of Environmental Statistics and Information Division for the U.S. Environmental Protection Agency, Office of Policy, Planning and Evaluation. Phillip received his Ph.D. in Statistics from the University of Maryland in 1973. He was the past Chair of the American Statistical Association's section on statistics and the environment. He represents the statistical community in a number of federal and non-governmental panels and task forces involving statistics and the environment. He is an adjunct Professor of mathematics and statistics at the American University in Washington, DC.

**Secretary (1995-1998):**

**Elizabeth Sweet** is a mathematical statistician at the Bureau of the Census, having worked there approximately 7 years. For the past 2 years, she has been in a rotational program at the Census Bureau, informally known as the "Math Stat Intern Program." The statisticians in this program spend approximately 1 year in each of the statistical areas of Census Bureau: demographic, economic, research, and decennial. She is currently working on an electronic reporting project, which is related to her ongoing interest in questionnaire development. Elizabeth received an M.S. degree in statistics in 1992 from George Washington University.

**Program Abstracts**

- Topic:** Statistics and the Question of Standards
- Speaker:** Professor Stephen Stigler, University of Chicago
- Chair:** Joan Rosenblatt, National Institute of Standards and Technology (NIST)
- Date/Time:** Friday, May 5, 1995, 3:00 - 4:00 PM (Reception Follows)
- Location:** Green Auditorium, NIST (From Washington, coming northbound on Rt. 270, enter the Collector/Distributor lanes to Exit 9 and take Exit 10, Rt. 117 West. Turn left at the first traffic light and proceed through the main gate (Gate A). If coming southbound on Rt. 270, take Exit 11B, Rt. 124 West. Go to the lobby of the Administration Building for directions to the Green Auditorium. For more information, contact Kaye Wade (301) 975-2838.
- Sponsor(s):** NIST Statistical Engineering Division  
Physical Science & Engineering Section  
NIST Standards Alumni Association
- Abstract:** This talk, with an introduction by Joan Rosenblatt, will honor the memory of Churchill Eisenhart, Founder of the NIST Statistical Engineering Division in 1947. Churchill made fundamental contributions to statistics for measurements, quality, and standards. Professor Stephen Stigler will survey several historical themes associated with the setting and maintenance of standards. A number of examples drawn from the past two centuries, not all successes, will illustrate the importance of standards in the history of statistics and of the importance of statistics in the history of standards.

**Program Abstracts (Cont'd)**

- Topic:** Postmodern Data Analysis: The End of Statistics
- Speaker:** James R. Thompson, Department of Statistics, Rice University
- Chair:** Jim Gentle, George Mason University
- Date/Time:** Monday, May 8, 1995, 12:30-2:00 PM
- Location:** BLS Cognitive Lab, Postal Square Building, Room 2990, 2 Massachusetts Avenue, NE, Washington, DC (Red Line -- Union Station). Enter at Massachusetts Avenue and North Capitol Street.
- Sponsor:** Methodology Section
- Abstract:** Statisticians were perceived of by Karl Pearson as the grammarians of science, the high priests of the scientific method. But the scientific method presupposes as a goal a chain of models, each better than the last, as approximations to some part of a system in the real world. The radical pragmatism of Exploratory Data Analysis is fundamentally opposed to models and most of its proponents do not use it as a means of model inference. Similarly, such areas as resampling, nonparametric regression, nonparametric density estimation, fuzzy neural networks, etc., generally dispense with modeling. Thus, with curve fitting, as opposed to modeling, dominating the current "statistical" culture, it may be that statistics will simply fade away as its *raison d'être* disappears.

**Program Abstracts (Cont'd)**

- Topic:** The CPS After the Redesign: Refocusing the Economic Lens
- Speaker:** Anne Polivka, Bureau of Labor Statistics
- Chair:** Mike Horrigan, Bureau of Labor Statistics
- Date/Time:** Thursday, May 11, 1995, 12:30-2:00 PM
- Location:** BLS Cognitive Lab, Postal Square Building, Room 2990, 2 Massachusetts Avenue, NE, Washington DC (Red Line -- Union Station). Enter at Massachusetts Avenue and North Capitol Street.
- Sponsor:** Social and Demographics Section
- Abstract:** The Current Population Survey (CPS), a national survey of 60,000 households, is a major source of information about the American labor market. In addition to providing monthly estimates of unemployment and employment, data from the CPS are used to examine broad societal and cyclical changes in economic activity over time. In January 1994, the CPS underwent a major redesign both in the wording of the questionnaire and the methodology used to collect the data. The objective of the redesign was to improve the quality and expand the quantity of available data. However, the redesign also caused changes in the measurement of many of the estimates derived from the CPS. This paper estimates adjustment factors for various aggregate measures derived from the CPS in order to permit comparisons of estimates before and after the redesign. In addition, these adjustment factors are analyzed to assess the impact of the redesign on some of the key conclusions drawn from the CPS.

**Program Abstracts (Cont'd)**

**Topic:** Updating and Reconstructing USDA Price Indexes

**Speaker(s):** Herb Vanderberry, U.S. Department of Agriculture  
Doug Kleweno, U.S. Department of Agriculture

**Chair:** Bob Milton, U.S. Department of Agriculture

**Day/Time:** Wednesday, May 17, 1995; 12:30-2:00 PM

**Location:** 1301 New York Ave., NW, Washington, DC (13th & New York Ave.), Waugh Auditorium, in basement (Blue or Orange Line - between Metro Center and McPherson Square). Call Linda Atkinson on (202) 219-0505 to place your name on the guard's list for entry.

**Sponsor:** Economics Section

**Abstract:** USDA's price indexes are required by law in computing parity prices. Besides providing the chief measurement of change in commodity and farm input prices, the indexes have many other uses, such as in farm income projections, costs of production models, and farm policy decisions. This session will discuss the changes in the weighting and reconstruction of USDA prices received and paid by farmers indexes in an effort to make the indexes more accurate, continuous measures of overall price change.



**Program Abstracts (Cont'd)**

- Topic:** The Future of Colleges of Agriculture at Land Grant Universities
- Speaker:** Nicole Ballenger, National Research Council  
Board on Agriculture
- Chair:** Mike Horrigan, Bureau of Labor Statistics
- Date/Time:** Thursday, May 18, 1995, 12:30-2:00 PM
- Location:** BLS Training Center, Postal Square Building, Suite G-440, Room 8, 2 Massachusetts Avenue, N.E., Washington D.C. (Red Line -- Union Station). Enter at First Street, N.E.
- Sponsor:** Social and Demographics Section
- Abstract:** Land grant colleges were authorized by an act of Congress over 130 years ago to provide practical instruction to the "industrial classes," and they grew up in every State and territory of the Nation. True to the business of the day, the colleges specialized in agriculture and mechanical arts. The colleges became well known for their plant and animal breeding and other applied research, and for their successful delivery of new technologies to the farm through cooperative extension programs. Many land grant colleges of agriculture expanded into full-fledged universities, including a number of country's most prominent public institutions of higher education. What role do the colleges of agriculture, still a component of almost every land grant university, have in today and tomorrow's society? Are they a "dying breed," or does their service orientation and integrated approach to teaching, research, and extension still offer a model for higher education?

**Program Abstracts (Cont'd)**

**Topic:** Developing an Estimation Strategy for a Pesticide Data Program

**Speaker:** Phillip S. Kott, National Agricultural Statistics Service

**Chair:** Michael P. Cohen, National Center for Education Statistics

**Date/Time:** Thursday, May 18, 1995, 12:30-2:00 PM

**Location:** BLS Cognitive Lab, Postal Square Building, Room 2990, 2 Massachusetts Avenue, NE, Washington DC (Red Line -- Union Station). Enter at Massachusetts Avenue and North Capitol Street.

**Sponsor:** Methodology Section

**Abstract:** The Agricultural Marketing Service's Pesticide Data Program (PDP) is a cooperative effort of AMS and several state agencies. The National Agricultural Statistics Service (NASS) provides statistical support to the PDP. The ultimate purpose of the program is to make scientific statements about the distribution of certain pesticide residues in particular products (mostly fresh fruits and vegetables) consumed by the US public.

Developing a statistically defensible estimation strategy for the PDP required overcoming a number of thorny problems. Chief among them was the non-random nature of the "sample" of participating states. Also of concern was the level-of-detection/level-of-quantification issue: not all potential levels of pesticide residue can be detected by a given lab; moreover, certain detectable levels are not quantifiable.

A graphical method was developed to display parameter estimates (means and percentiles) in light of the detection/quantification problem. Included on the graphs (as an option) are fairly robust, model-based estimates of confidence intervals.

## Program Abstracts (Cont'd)

- Topic:** Accounting for Confounders Observed Post Randomization for Discrete and Continuous Repeated Measures Data
- Speaker:** James Rochon, George Washington University
- Chair:** Paul Albert, National Heart, Lung, and Blood Institute
- Discussant:** Dean Follmann, National Heart, Lung, and Blood Institute
- Date/Time:** Friday, May 19, 1995, 1:30-3:00 PM (Note special time)
- Location:** Executive Plaza North, Conference Room J, 6130 Executive Blvd., Rockville, MD
- Sponsor:** Public Health and Biostatistics Section
- Abstract:** A problem which, frequently arises in the analysis of clinical trials is accounting for covariates post randomization. Two examples are patient compliance measured through pill counts and the dose of a concomitant medication. Typically these repeated measures are observed concurrently with the primary endpoint at the regularly scheduled follow-ups during the course of the study. To account for these effects, the confounders are sometimes introduced as time-dependent covariates into the statistical model. However, there are conceptual and statistical difficulties with this approach.
- We adopt the view that, since the confounder is observed post randomization, it must be considered as an endpoint in its own right. A GEE model is prescribed to allow each set of repeated measures to be modeled as a function of explanatory variables. Seemingly Unrelated Regression is proposed to combined these GEE models into an overall structure. Inference is then performed by imposing restrictions on the confounder regression parameters to reflect the behavior profile of interest. For example, if two treatment groups had received an equivalent amount of concomitant medication, is there a significant difference in the primary endpoint? The methodology is illustrated with an example.

## Announcements

### **New Approaches to Defining Metropolitan and Non-Metropolitan Areas**

COPAFS will host a conference on New Approaches to Defining Metropolitan and Non-Metropolitan Areas on November 29-30, 1995. The Office of Management and Budget (OMB) is considering new ways of defining metropolitan and nonmetropolitan areas. The purpose of this conference is to provide a forum for evaluating alternative definition approaches and for OMB to hear the concerns of the user community. Following the conference, OMB will begin work on developing the standards that will be used to define areas with 2000 Census data.

The central question at issue is whether the revisions of the standards have enabled metropolitan areas to remain an effective classification. Or do evolving settlement patterns, changes in data uses, and technological opportunities indicate changes in approach for the start of the 21st century?

Conference participants will include federal, state and local users of metropolitan areas as well as others from the universities and the private sector who use these areas. Subjects to be covered include:

- \* What are the basic geographic units for defining areas?
- \* What criteria should be used to aggregate the basic geographic units?
- \* Should there be hierarchies of statistical areas?
- \* What kinds of areas should receive official recognition to meet the needs of various users?
- \* Should the defined areas provide nationwide territorial coverage?
- \* What kinds of data are most appropriate and available for defining areas?

- \* Should the definition process follow strictly statistical criteria or allow for local opinion?
- \* What should be the frequency of updating?
- \* Should the metropolitan concept be eliminated?

The cost for the two-day seminar, which will take place at the Bethesda, MD Holiday Inn, will be \$125.00 per person. Registration will be limited to 250 participants. For further information, contact Edward Spar or Susan Cohen in the COPAFS office tel: 703/836-0404; FAX: 703-684-2037.

### **Social Committee Volunteer Needed**

The WSS Board of Directors needs an interested person to work on the Social Arrangements Committee. This committee plans events such as the Annual Dinner and the Holiday Party. Please call Suzanne Dorinski at 301-505-3965 for more information.

### **SIGSTAT Meetings**

SIGSTAT, the Special Interest Group in Statistics for the Capital PC User Group and the Washington Operations Research and Management Science Council (WORMSC), will be sponsoring the following meetings. On May 10, 1995, the topic will be Idrisi, a reasonably priced PC GIS package.

All meetings are scheduled from 12:30 PM to 1:30 PM in Room B-14, 1301 New York Avenue, NW. The building is located midway between the Metro Center and McPherson Square Metro stops. If this is your first SIGSTAT meeting, call Charlie Hallahan at (202) 219-0507 or e-mail to hallahan@ers and leave you name in order to gain entry into the building.

## Employment Column

As a service to local statisticians, *WSS News* provides notification of employment opportunities and description of those seeking employment here in the Washington, DC, area. Readers are encouraged to take advantage of this feature of the newsletter. The deadline for inserting notices is five (5) weeks before the publication date. Those interested should write or call: Bill Arends, USDA-NASS, Room 4133 South Building, Washington, DC 20250-2000, (202) 720-6812.

### Vacancies

#### ASA Director, Chapter and Section Relations

**Nature of Position:** The Director of Chapter and Section Relations is responsible for the activities of the Council of Chapters and its Governing Board; the Council of Sections and its Governing Board; the ASA/NSF Fellowship Programs; the Chapter, Committee, and Section data base rosters, and notebooks; serves as liaison with selected Committees and Sections; liaison with related professional, governmental, and other organizations; and working with the Executive Director to meet the needs of the Board of Directors.

#### Background Requirements:

**Education:** Bachelor's degree or equivalent in statistics, marketing, or related field.

**Skills:** Broad knowledge of the Association and the profession; strong interpersonal relationship talents; participation in the Association's programs at some level; excellent oral and written communications skills; knowledge about fellowship programs and advisory committees; demonstrated organizational and managerial abilities.

**Relevant Experience:** Substantial experience as a manager in a statistical organization; experience

with coordinating statistical units such as statistical panels, advisory committees, research programs, or other statistical committees; experience with dealing with members, elected leadership, and staff of professional organizations.

**Salary:** Commensurate with qualifications and experience.

**Applications:** Applicants should forward a statement detailing their professional experience and relating it to the position. They should also include a resume and the names of at least three references with their application. Applications should be sent to: Dr. Daniel G. Horvitz, Interim Executive Director, American Statistical Association, 1429 Duke Street, Alexandria, VA 22314-3402.

### Faculty Appointment

The Joint Program in Survey Methodology (JPSM) seeks applications for an open rank (tenured or tenure-track) faculty appointment from persons with research interests in survey methodology. Responsibilities include graduate teaching and research. Research interest should include areas such as questionnaire design, computer-assisted data collection, cognition and survey measurement, interviewer effects, survey management, and the measurement and reduction of nonsampling errors. Doctorate in a relevant field is required. A strong record in funded research is desirable. Send CV and names of three references to Dr. G. Kalton, Search Committee Chair, 2181 Lefrak Hall, College Park, Maryland 20742. Reviews begin May 1, 1995, and will continue until the position is filled. For more information call Dr. Kalton at 301 251-8253 or e-mail to Gkalton@survey.umd.edu.

## Employment Column

### **Statisticians and Statistical Programmers/Entry and Mid-Level**

Employee-owned SAIC is seeking statisticians and statistical programmers to support statistical/analytical aspects of multidisciplinary, public-sector projects in the environmental/health program areas of water-pollution control, hazardous-waste disposal and treatment, regulatory analyses, risk assessment, and human-health effects.

Statistical efforts to support Federal decision-making range from developing survey-sample designs to applying traditional inferential and modeling methods, including testing assumptions, imputing missing data, and applying innovative methods to incorporate censored data into estimation procedures.

Statistical programming encompasses data base design, development, quality assessment, and documentation; algorithm and simulation development and testing; and graphical presentations of data.

Successful candidates will possess a bachelor's or master's degree or equivalent experience, a commitment to quality, and strong written and verbal communication skills. Positions offer competitive salaries and an excellent benefits package including stock ownership and retirement programs.

For immediate consideration, please forward a resume with salary history to SAIC, EHS/GHC: MS T1-12-9, 1710 Goodridge Drive, McLean, VA 22102.

### **Program Directors**

The National Research Council (NRC) seeks to fill two Director positions on the staff of the

Mathematical Science Education Board (MSEB), whose mission is to improve mathematics education for all students at all levels. One Director will be responsible for programs dealing primarily with K-12 mathematics education, the other for programs in postsecondary mathematics education. One will also serve as Director of the MSEB. Current projects center on standards and assessment for school mathematics, preparation for the technical work force, and indicators of quality in undergraduate mathematics programs.

The MSEB Directors work as part of the staff of the NRC Center for Science and Mathematics Education, joining in common projects on behalf of science and mathematics education wherever appropriate. The Directors work with various mathematical, scientific, and educational organizations to carry out the work of the MSEB; make public presentations of the Board's work; provide administrative, fiscal, and logistical support of programs under their jurisdiction, and provide leadership in fund raising for the Board.

Requirements: Ph.D. or equivalent in mathematics or mathematics education; at least 6-8 years relevant experience, preferably including background in teaching at school or undergraduate levels; familiarity with the program and leadership of the various mathematics professional organization; and excellent organizational, interpersonal, writing, editing, and management skills.

The positions might be filled either on the basis of a regular staff appointment or as borrowed personnel (IPA). Please submit resume and salary requirements to Richard Lawrence, Office of Human Resources, National Research Council, 2101 Constitution Avenue NW, Washington DC 20418.

## Employment Column

### **Supervisory Mathematical Statistician**

The Food and Drug Administration (FDA), Center for Devices and Radiological Health (CDRH), Office of Surveillance and Biometrics, located in Rockville, Maryland invites application for the position of Supervisory Mathematical Statistician, GS-1529-15, to serve as Director, Division of Biostatistics. The Director will manage the personnel and resources of the Division with programmatic responsibility for evaluating statistical materials and documents submitted to or generated by the Center for Devices and Radiological Health to assure statistical validity and consistency; supervising a subordinate staff comprised of 17 professional mathematical statisticians and 2 support personnel; establishing statistical policy; performing statistical research or risk/benefit analyses on the safety, effectiveness, and use of medical devices, or on the risks of radiation; and developing statistical information required by CDRH for risk assessment, device evaluation, postmarket surveillance, compliance, performance, standards, and other activities. The Director will serve as the key advisor to the Office Director and Center Director and other FDA officials on statistical issues.

This position is appropriate for senior-level statisticians or individuals in related fields; a high level of experience in the conduct and leadership of clinical trials and other types of biomedical investigations is desirable. Candidates should have experience with collaborative applied research projects, the capability of conducting original research in statistical methodology, possess excellent written and oral communication skills, and must meet the following education requirements:

(1) degree that included 24 semester hours of mathematics and statistics, of which 12 semester

hours were in mathematics and 6 semester hours were in statistics; or (2) combination of education and experience - at least 24 semester hours of mathematics and statistics, including at least 12 hours in mathematics and 6 hours in statistics, as shown in (1), plus appropriate experience or additional education.

Salary \$71,664 to \$93,166 per annum. The Federal Government provides an excellent benefits package. To apply for this position, applicants MUST request a copy of vacancy announcement number FDA-95-165 by calling (301) 443-1969. Failure to submit requested information/documents will result in nonconsideration and/or lower rating in the evaluation process. All applications for this position must be postmarked by June 1, 1995.

### **Faculty Appointment**

The Joint Program in Survey Methodology (JPSM) seeks applications for an open rank (tenured or tenure-track) faculty appointment from persons with research interests in survey statistics. Responsibilities include graduate teaching and research. Research interest should include areas such as sample design, variance estimation with complex sample designs, weighting and imputation, model-based vs. design-based inference, measurement error models, and small area estimation. Doctorate in statistics, biostatistics or a related field is required. A strong record in funded research is also desirable. Send CV and names of three references to Dr. Graham Kalton, Search Committee Chair, 2181 Lefrak Hall, College Park, Maryland 20742. Reviews begin May 1, 1995, and will continue until the position is filled. For more information call Dr. Graham Kalton at 301 251-8253 or e-mail to [Gkalton@survey.umd.edu](mailto:Gkalton@survey.umd.edu).

<b>President</b> Sue Ahmed (202) 219-1781	<b>Past President</b> Michael L. Cohen (202) 334-3765	<b>President-Elect</b> Ron Fecso (703) 235-5213
<b>Secretary</b> Ruth Ann Killion (301) 457-1030	<b>Treasurer</b> Carolyn Shettle (703) 306-1780	

### WSS Program Chairs

<b>Agriculture &amp; Natural Resources</b> Carol House (202) 720-3895 John Herbert (202) 586-4360	<b>Economics</b> Linda Atkinson (202) 219-0505 Art Kennickell (202) 452-2247	<b>Methodology</b> Michael P. Cohen (202) 219-1917 Sandra West (202) 606-7384
<b>Physical Sciences &amp; Engineering</b> Tom Mazzuchi (202) 994-7528 Pat Massimini (703) 883-6490 Vince Massimini (703) 883-5893	<b>Quality Assurance</b> Philip Gbur (301) 457-4206 Amrut Champaneri (202) 268-2299	<b>Social &amp; Demographic Statistics</b> Mike Horrigan (202) 606-5907 Michael Greene (703) 247-1575
<b>Statistical Computing</b> Jim Gentle (703) 993-1994 Mark Pierzchala (703) 235-5218 X114	<b>Short Courses</b> Glenn White (202) 874-1114 Jeri Mulrow (202) 874-0434	<b>Public Health and Biostatistics</b> Sally Hunsberger (301) 496-5905 Bill Rosenberger (301) 881-9260
	<b>Data Collection Methods</b> Theresa DeMaio (301) 457-4894 Mary Grace Kovar (202) 223-6040 Roger Tourangeau (202) 223-6040	
<b>Employment</b> Bill Arends (202) 720-6812	<b>WSS NEWS Editors</b> Theresa Hallquist (202) 586-2051 Hattie Ramseur (202) 586-1124	<b>Membership</b> Antoinette Martin (202) 254-5409 Renee Miller (202) 254-5507 Fritz Scheuren (703) 549-1120
<b>Videotapes</b> Ed Milton (202) 366-2751	<b>Quantitative Literacy</b> Shail Butani (202) 606-6347	<b>Local Arrangement</b> Robie Sangster (202) 606-7517



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