



WASHINGTON
STATISTICAL
SOCIETY

WSS NEWS

May 1994

Election Ballot

An election ballot for the 1994-1995 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 27, 1994 to be counted. Results will be announced at the WSS Annual Dinner at Positano Ristorante Italiano in Bethesda, MD on Wednesday, June 15, 1994.

Presentation in Honor of Mahalanobis' Birth Centenary

Prasanta Chandra Mahalanobis' birth centenary is being celebrated this year. In honor of this occasion, we are very pleased to announce that on Tuesday, June 14th, at 3:00 p.m., Professor C.R. Rao of Penn State University will be discussing the many contributions of this great statistician. Following this talk, to be held at George Washington University Medical School, there will be a small reception. Everyone is welcome to help commemorate this occasion. (For more details on Mahalanobis' life, see the Vol. 22, No. 6, 1993 issue of The IMS Bulletin, on pp. 593-597.)

WSS Seminars (All events are open to any interested persons)		
May 4	Wed.	Visual Clustering, Modes, and Nonparametric Density Estimation
11	Wed.	Impact of Health Reform on Specific Corporations: A New Use for Health Policy Microsimulation Models (2nd in a series on modeling health policy)
13	Fri.	Asymmetric Least Squares Analysis of Correlated Antibody Response Data
24	Tues.	Longitudinal Data Analysis: Evaluation of Methods for Applications to Epidemiologic Data on Aging (Eighth Presentation in Methodology Seminar Series on Analysis of Complex Survey Data)
26	Thurs.	Natural Gas Futures Prices: Uncovering Systematic Behavior

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 31, 1994. The meeting will be held in the BLS Cognitive Lab, Room 2990, Postal Square Building, 2 Massachusetts Avenue NE, Washington, DC from 12:30 - 2:00 p.m. (Red Line -- Union Station). Enter at Massachusetts Avenue and North Capitol Streets. Federal employees show their badge; non-government employees contact Ed Riddick at (202) 606-7376 to add name to visitors' list.

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 the Society sponsors. We look forward to seeing you there.

Social Committee Volunteers Needed

The WSS Board of Directors needs interested people to work on the Social Arrangements Committee. This committee plans events such as the Annual Dinner and the Holiday Party. Please call Kim Long at (301) 299-5904 for more information.

Data in the Department of Defense

On Wednesday, June 22, 1994 at 12:30 p.m. WSS and ASA's Committee on National and International Security will sponsor a WSS seminar on Data in the Department of Defense--Managing a Vast and Valuable Resource. David Signori, Associate Director of the Defense Information Systems Agency, will present an overview of the problems and issues involved in managing such a vast resource. Topics will include documenting data about data and about information assets and dealing with the hacker threat.

The discussants will be: Cathryn Dippo, Bureau of Labor Statistics; Fritz Scheuren, Internal Revenue Service; and Terry Ireland, National Security Agency. The conference will be held at the BLS

Training Center, Room #7, 2 Massachusetts Avenue, NE, Washington, D.C. (Red Line -- Union Station). Enter at First Street. Federal government employees show ID; non-government employees call Ed Riddick at (202) 606-7376 to add name to visitor's list.

Joint Program in Survey Methodology

The University of Maryland - University of Michigan Joint Program in Survey Methodology (JPSM) announces the following courses:

- Data Collection Methods in Survey Research, June 1-July 20, M,W 7:00-9:30 p.m.
- Applied Sampling, June 2-July 21, T,TH 7:00-9:30 p.m.
- Cognition, Communication and Survey Measurement, June 1-June 24, M,T,W,TH,F 5:00-7:00 p.m.
- Nonresponse in Surveys, June 27-July 22, M,T,W,TH,F 5:00-7:00 p.m.

Call the JPSM office at (301) 314-7911 for more information.

Biographical Information

1994 Candidates for Office on the Board of Directors Washington Statistical Society

Please mark your selections on the enclosed ballot and return to the address on the reverse side by Friday, May 27, 1994.

President-Elect (President 1995):

Ron Fecso is a Senior Research Statistician at the Research Division of the National Agricultural Statistics Services, USDA. His activities include survey design, nonsampling error studies, and application of quality improvement techniques to survey and other processes.

Ron returned to the USDA last year from an Intergovernmental Personnel Act assignment as Study Director at the Committee on National Statistics, National Academy of Sciences. The panel study resulted in the report, Quality in Student Financial Aid Programs, which he edited.

He is active in development of educational opportunities of interest to statisticians in the Washington area: teaching courses at the USDA Graduate School and at George Mason University; serving as a member of statistics curriculum advisory committees at those institutions; contributing to the monographs on the conferences on measurement errors in surveys and survey methods for businesses, farms, and institutions; co-founding and chairing the WSS Quantitative Literacy Group; and serving on the initiating and four subsequent WSS Quality Assurance in Government Symposium committees.

Ron's past service to WSS also includes chairing the Audit Committee during the 1980s and serving as Representative-at-large.

Clyde Tucker is Director of the Behavioral Science Research Center at the Bureau of Labor Statistics (BLS). He previously served as a mathematical statistician at BLS. Prior to coming to Washington, he was Assistant Manager of Surveys and Assistant to the Director of Elections and Surveys at CBS News. Clyde has serviced as co-chair of the Data Collection Methodology Section of WSS. He is currently chair of the ASA Committee on Privacy and Confidentiality. Clyde has a Ph.D., in political science and an M.S., in statistics, both from the University of Georgia. His research interests include measurement error, nonresponse modeling, and telephone survey design.

Methodology Chair-Elect (Chair 1995):

Gregg Diffendal has a Masters Degree in statistics from Pennsylvania State University and currently works in the Statistical Research Division of the Bureau of the Census, where he has been for the

past 13 years. Gregg has worked on census and survey coverage issues, missing data problems, small area estimation, and survey estimation.

Sandra A. West has a Ph.D. from Harvard University and currently is a mathematical statistician in the Office of Research and Evaluation at the Bureau of Labor Statistics. She formerly held teaching positions at Harvard University and Worcester Polytechnic Institute (Associate Professor). Sandy's special interests are: statistical inference, Bayesian analysis, imputation, and regression analysis.

Representatives-at-Large, (1994-1996)

Shail Butani is Chief, Statistical Methods Division, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics. She has a B.A., and M.A., in mathematical statistics from George Washington University, Washington, D.C. For the past few years, Ms. Butani has been quite active in the Quantitative Literacy Program of WSS; she is the coordinator for Fairfax County Schools. Her areas of interest include sampling and establishments survey research especially in the area of measurement errors.

Robert P. Clickner is a senior statistician and Associate Director of Environmental Studies at Westat, Inc. He has previously been a mathematical statistician for the Department of Agriculture and the Department of Housing and Urban Development, and an Associate Professor of Statistics at Temple University. Robert has a Ph.D., in statistics from the Florida State University. For WSS, he has served on the quantitative literacy program and has been a science fair judge. His statistical activities focus on the statistical design, implementation and analysis of environmental surveys and the statistical analysis of environmental data. Robert has trained environmental researchers on the use of statistical and survey research methods in environmental field studies.

Howard Hogan is Assistant Chief for Research and Methodology Branch in the Business Division at the Bureau of the Census. Previously, Howard was Chief of the Undercount Research Staff in charge of the research on population undercount and census adjustment. He also teaches exploratory data analysis and demography at the USDA Graduate School. He has an M.B.A., an M.A., and a Ph.D., from Princeton.

Blasa Toman is an Associate Professor of statistics in the Department of Statistics/Statistical Computing at George Washington University. Her main research interests are in the areas of experimental design and Bayesian statistics.

Treasurer (1994-1996)

Carolyn F. Shettle is Chief Statistician, Division of Science Resources Studies, National Science Foundation. She also has held applied social statistics positions at Health and Human Services, Boston University, and the Massachusetts Committee on Criminal Justice. She has a Ph.D., in Sociology with a major concentration in statistics and research methodology from the University of Wisconsin-Madison. She currently is the Local Arrangements Chair, Washington Statistical Society, and is serving on the OMB Working Group on Nonresponse, and the OMB Interest Group on Customer Surveys. Her current interests include survey research methods, social and demographic statistics, nonresponse error, and customer surveys.

Program Abstracts

- Topic:** Visual Clustering, Modes, and Nonparametric Density Estimation
- Speaker:** David W. Scott, Rice University
- Chair:** Ferdinand T. Wang, American University
- Date/Time:** Wednesday, May 4, 1994, 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. Federal government employees show ID; nongovernment employees call Ed Riddick at (202) 606-7376 to add name to visitors' list.
- Sponsor:** Social and Demographic Section
- Abstract:** In this talk, we discuss some ideas for clustering that are based on extracting certain features from an estimated density function. If we associate modes with clusters, then visualization of smoothed histograms is effective in three and four dimensions. This will be illustrated with a VHS tape. Also, the number and location of modes will be shown to vary with the degree of smoothing. We capture this variation in a diagram called the "mode tree" which is similar to a dendrogram. Applications to the Iris data and some MRI data of a brain tumor will be presented. We will conclude with a brief discussion of related dimension reduction issues.

Program Abstracts

- Topic:** Impact of Health Reform on Specific Corporations: A New Use for Health Policy Microsimulation Models (2nd in a series on modeling health policy)
- Speaker:** Jack Rogers, Price Waterhouse
- Chair:** Arthur Kennickell, Federal Reserve
- Date/Time:** Wednesday, May 11, 1994, 12:30 PM - 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. Federal government employees show ID; nongovernment employees call Ed Riddick at (202) 606-7376 to add name to visitors' list.
- Sponsor:** Economics Section
- Abstract:** Reform of the American health care system would cause a major change in the way that companies finance health benefits for their employees. Microsimulation models have been commonly used to estimate the aggregate impact of these changes on major sectors of the economy--for example, the effects of health reform on employers in each of four size categories might be examined. This paper illustrates the use of the same nation-level microsimulation modeling techniques to examine the effects of health reform on a specific firm. Microsimulation, using national data bases, is necessary and useful for this type of analysis because firms do not have enough information, or they have the wrong types of information, to analyze the effects of health reform on the costs of employer-provided health insurance. Microsimulation of firm-specific effects is based on a combination of firm-specific data, national data reweighted to reflect the specific firm's demographics, and assumptions about firm-specific reactions to health reform.

Program Abstracts (Cont'd)

- Topic:** Asymmetric Least Squares Analysis of Correlated Antibody Response Data
- Speaker:** Lawrence H. Moulton, Johns Hopkins University
- Chair:** George F. Reed, National Institute of Allergy and Infectious Diseases
- Date/Time:** Friday, May 13, 1994, 1:30 - 3:00 PM (Note Special Time)
- Location:** Federal Building, 7550 Wisconsin Avenue, Room B119, Bethesda, MD (Red Line Metro to Bethesda Stop, half block North on Wisconsin Avenue).
- Sponsor:** Public Health and Biostatistics
- Abstract:** Ordinary linear regression models estimate $E(Y|x)$, the mean response for a given covariate set. In public health research and application, however, it is often of interest to examine what variables are important in explaining the responses of those who are the least healthy, not those of the "average" person.

A relatively new method of examining the relationship between a set of explanatory variables and different levels of a response variable is that of regression percentile estimation via asymmetric least squares (ALS) (Newey and Powell, 1987 *Econometrica*; Efron, 1991 *Statistica Sinica*). It enables estimation of all the percentiles of the distribution of Y given x , as well as cross-percentile coefficient covariances, without the assumption of homoscedasticity.

The use and interpretation of ALS estimation is exemplified through application to a data set on the safety and immunogenicity of high-titer measles vaccine in Haiti. Antibody concentrations are sometimes measured at two or more points in time, as in this study example. A method is presented for gaining strength by combining the longitudinal data in one percentile regression analysis while accounting for within-child correlation.

Program Abstracts (Cont'd)

- Topic:** Longitudinal Data Analysis: Evaluation of Methods for Applications to Epidemiologic Data on Aging (Eighth Presentation in Methodology Seminar Series on Analysis of Complex Survey Data)
- Speaker:** Dwight B. Brock, National Institute on Aging
- Chair:** Michael P. Cohen, National Center for Education Statistics
- Date/Time:** Tuesday, May 24, 1994, 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. Federal government employees show ID; nongovernment employees call Ed Riddick at (202) 606-7376 to add name to visitors' list.
- Sponsor:** Methodology Section
- Abstract:** The National Institute on Aging Established Populations for Epidemiologic Studies of the Elderly (EPESE) have produced a variety of data on the health, social, demographic, and functional characteristics of more than 14,000 individuals age 65 and older. An important component of these studies is the characterization of changes in physical functioning and development of disabilities over time. This presentation is concerned with evaluation of classes of statistical models (including random effects, Markov/logistic, and survival models) for use with these data, in terms of statistical properties, software availability, and appropriateness for addressing specific substantive questions. The procedures will be illustrated by applying the models to EPESE physical functioning data collected over five years of follow-up.

Program Abstracts (Cont'd)

- Topic:** Natural Gas Futures Prices: Uncovering Systematic Behavior
- Speaker:** John H. Herbert, Energy Information Administration
- Chair:** Chuck Dale, Energy Information Administration
- Discussant:** Ted Covey, U.S. Department of Agriculture
- Date/Time:** Thursday, May 26, 1994, 12:30 - 2:00 PM
- Location:** Room GJ-015, Forrestal Building, 1000 Independence Avenue, SW, Washington, DC (Yellow or Blue/Orange Lines--L'Enfant Plaza/Smithsonian). Government employees show ID; nongovernment employees show drivers license.
- Sponsor:** Agriculture and Natural Resources Section
- Abstract:** The natural gas futures price is probably the most volatile of all futures contracts traded on regulated exchanges in the United States. In this presentation not only will we estimate and examine this volatility, but we will also evaluate a variety of hypotheses about daily price changes in this market.

Announcements Cont'd

BLS Research and Evaluation Series

The Bureau of Labor Statistics (BLS) announces the following seminars:

On Friday, May 13, 1994 at 10:00 a.m., Kevin Lang from Boston University will speak about "Ability Bias, Discount Rate Bias, and the Returns to Education".

On Tuesday, June 14, 1994 at 10:00 a.m., David Blau from the University of North Carolina will speak about "Labor Market Dynamics of Older Married Couples".

On Friday, June 24, 1994 at 10:00 a.m., James Brown from Rice University will speak about "Multi-party Bargaining in the Newspaper Industry".

These seminars will be held in the BLS Behavioral Science Lab, 2990 Postal Square Building, 2 Massachusetts Avenue NE (across from Union Station). Please direct any questions to Patricia O'Neal at (202) 606-7391.

The American University Summer Classes

The Department of Mathematics and Statistics of The American University announces its Summer 1994 Schedule of Graduate Classes: Statistical Methods, Regression, Generalized Linear Models. These courses will be held MW 5:30-8:10 p.m. For additional information, please call (202) 885-3120.

Visualizing Data: The New Frontier of Data Analysis

The Joint University of Maryland-University of Michigan Program in Survey Methodology (JPSM) will sponsor a short course on June 28-29, 1994, entitled "Visualizing Data: The New Frontier of Data Analysis" presented by Dr. William S.

Cleveland at the Hyatt Regency Washington Hotel at 400 New Jersey Avenue, NW. Prerequisites are familiarity with basic statistics and the least-squares method of fitting equations to data. Registration is \$325 for nonstudents and \$175 for full-time students. Participants will receive a copy of "Visualizing Data" (Hobart Press, 1993), and a notebook containing copies of course transparencies and text. Registration deadline is June 10, 1994, but early registration is encouraged as JPSM short courses tend to fill up quickly. To request a registration form, call 1-800-937-9320 or E-Mail to JPSM@UM.CC.UM.CC.UMICH.EDU.

American University: Fall 1994 Schedule

The Department of Mathematics and Statistics at The American University will offer the following graduate courses in the Fall 1994 Semester: Probability, Theory of Sampling I, Statistical Methods, Regression, Statistical Software, Nonparametric Statistics, Data Analysis, Mathematical Statistics I, Advanced Mathematical Statistics, Statistical Inference: Estimation. All courses are offered in the evening. Call (202) 885-3120 for further information.

SIGSTAT Meeting

SIGSTAT is the Joint Special Interest Group in Statistics for the Capital PC User Group and WORMSC (Washington Operations Research Management Science Council). SIGSTAT is sponsoring the following meeting: on May 11, 1994, "AMPL", a modeling language for mathematical programming. Includes LP, network, piecewise-linear, NLP and integer programming. The meeting is scheduled from 12:30-1:30 p.m. in Room B-14, 1301 New York Avenue NW, Washington, DC. The building is located midway between Metro Center and McPherson Square Metro stops. If this is your first SIGSTAT meeting, call Charlie Hallahan, (202) 219-0507, and 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

Lecturer in Statistics and Public Policy

The School of Public Affairs at the University of Maryland invites applications for a part-time or full-time lecturer in statistics and public policy for the academic year 1994-1995. The basic responsibilities include teaching the two-semester master's level course entitled Quantitative Methods in Public Policy. It is comparable to such courses in the more demanding business schools, but the emphasis is on applications in the public rather than the private sector. Topics covered include: decision trees and choice under uncertainty, sampling, confidence intervals, hypothesis testing, chi-square, multiple regression, time series analysis, and nonparametric statistics. The students also learn to use SAS and apply it to several case studies involving real data. Admission to the master's program is competitive; undergraduate grade point averages are typically above 3.5.

Ideally the candidate will be full-time at the School, and will teach one other course in an applied area, such as quantitative methods in health policy, welfare policy, or environmental policy. Part-time appointments will be considered in some cases. Compensation is negotiable and depends on the seniority and experience of the candidate as well as on the time commitment.

To apply please send a resume and letter of

application to Professor Peyton Young, School of Public Affairs, University of Maryland, College Park, Maryland 20742. Tel. (301) 405-6340.

Statisticians

Westat is an employee-owned corporation headquartered in the suburbs of Washington DC (Rockville, MD). We provide statistical consulting and survey research to the agencies of the U.S. Government and to a broad range of business and institutional clients. With a strong technical and managerial staff and a long record of quality research, our company has become one of the leading survey research and statistical consulting organizations in the United States. Several positions are currently available which require a graduate degree in statistics:

Survey Sampling, minimum two years relevant experience required in sample design and selection, frames development, weighting, and variance estimation. Must have Masters Degree or PhD in Statistics Program.

Biostatistician, work in Clinical Trials, their design, analysis and management. Also work in Survival Analysis Models and Longitudinal Studies. Substantial (but not exclusive) focus on HIV related issues. Ph.D. in Biostatistics and at least five years experience required.

To insure proper consideration, interested applicants should indicate one of the above areas and send resume with current salary to: Westat, Inc., Dept DRM-1, 1650 Research Blvd., Rockville, MD 20850.

Mathematical Statistician

The Office of Applied Studies, in the Substance Abuse and Mental Health Services Administration (SAMHSA), has a vacancy for a mathematical statistician (GS-13). This position will involve

Employment Column Cont'd

developing and monitoring statistical methods applied in SAMHSA's national sample surveys of households, hospital emergency rooms, and drug abuse treatment facilities. The successful candidate will have primary responsibility for the sample implementation for the Drug Abuse Warning Network, a national probability sample of hospital emergency rooms. Serves as consultant on the use of statistical methods needed to analyze substance abuse data. Develops complex sample designs to produce national and local area population estimates of substance abuse phenomena. Send SF-171 (indicating Vacancy Announcement Number SMA-94-18, Mathematical Statistician, GS-1529, Grade 13) by May 20, 1994 to: Substance Abuse and Mental Health Services Administration, Division of Personnel Management, 5600 Fishers Lane, Room 14C-14, Rockville, Maryland 20857. For more information, contact Ludrean Peterson on (301) 443-5407.

Health Statistician

The Office of Risk Assessment in the Directorate of Health Safety and Health Administration (OSHA) has an opening for a GS-13 biostatistician. The Directorate is responsible for developing health standards to protect employees from exposure to toxic and carcinogenic substances, harmful physical agents, and other health hazards. Staff members develop quantitative assessments of human risk based on epidemiologic or animal studies and integrate those assessments into occupational health standards. Responsibilities would include analyzing data related to the estimation of health risk in occupational settings, monitoring statistical aspects of work which may be required of contractors, and providing statistical consulting on study design, data collection, data analysis, interpretation of results, etc. to scientists on the staff. Applicants should have an M.S. in biostatistics and/or relevant experience. Send application (SF-171) to Wilma Short, U.S.

Department of Labor/OSHA, 200 Constitution Avenue NW, Room N-3308, Washington, DC 20210, (202) 219-8013.

Senior Statistician

API, a major trade association representing the petroleum industry is seeking a Senior Statistician for its Statistics Department. Qualified candidates will possess a Master's Degree in Statistics or a related quantitative discipline with 5+ years of experience managing statistics projects. Strong knowledge of computer systems and statistical software (preferably SAS) required. Excellent communications skills are essential.

This individual will perform original research on various areas of interest to the petroleum industry using sophisticated statistical concepts and analytical approaches, review statistical methodology in research and analysis performed by others for strengths, weaknesses, validity, and possible statistical biases, and conduct briefings to staff on statistical applications.

Candidates should submit resume with salary history to: Human Resources, American Petroleum Institute, 1220 L Street NW, Washington, DC 20005.

Mathematical Statistician

The Office of Survey Methods Research in the Bureau of Labor Statistics has an opening for a GS-12/13 mathematical statistician. The office is a group of mathematical statisticians and behavioral scientists who conduct theoretical and empirical research designed to improve BLS survey methodology. Recent projects have included study of the properties of replication variance estimators, alternative seasonal adjustment procedures for time series, imputation procedures for missing establishment data, quantile estimation from complex surveys, and methods of post-stratification.

Employment Column Cont'd

Responsibilities of this position will include conducting independent research on problems related to price index programs and providing statistical consulting to economists and other BLS statisticians.

Send applications (SF-171 or resume) to Richard Valliant, BLS, Room 4925, 2 Massachusetts Avenue NE, Washington, DC 20212; or telephone (202) 606-7382.

Sampling Statisticians and Survey Directors

Abt Associates has openings at different experience levels for two types of positions. Abt designs and conducts a variety of complex surveys for government agencies.

Survey Director and Senior Survey Director: Manages all or a substantial part of a complex data collection effort including budget preparation, instrument design, preparation of training materials, and data collection. Requires minimum 2 years experience in survey research.

Sampling Statistician: Has responsibility for sample design, estimation, and variance estimation, and consults on statistical and quality issues relating to survey efforts.

Send resumes to Gary Shapiro, Senior Sampling Statistician, c/o Patricia Edwards, Abt Associates, 101 N. Wacker, Suite 400, Chicago, Illinois 60606.

Job Applicant

Listed below is a brief description of the qualifications of an applicant seeking employment. Employers interested in interviewing an applicant should write or call: Bill Arends, USDA-NASS, Room 4133 South Building, Washington, DC 20250-2000; (202) 720-6812. All requests should include the code number from the applicant's ad and employer's name, organization, and telephone number. The applicant will be notified of the employer's interest and initiation of any further contact will be left to the applicant. All contacts will be kept confidential.

Applicant # 94-08

Over 15 years experience in applying sampling and statistical methodology to government surveys - nearly 12 of these years in a supervisory capacity. Demonstrated skills in coordinating and executing projects, designing samples, developing weighting and variance estimation strategies, and developing or conducting methodological research for longitudinal and cross-sectional surveys. Education: M.S. in Statistics, B.S. in Mathematics.

* * * Note from the WSS NEWS Editors * * *

Items for publication in the September 1994 WSS NEWS should be submitted no later than July 26, 1994. FAX items to:

Hattie Ramseur or Theresa Hallquist
FAX: (202) 586-0018

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Art Kennickell (202) 452-2247

Methodology

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Michael P. Cohen (202) 219-1917

Physical Sciences & Engineering

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Tom Mazzuchi (202) 994-7528

Quality Assurance

Philip Gbur (301) 763-7284
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Mike Horrigan (202) 606-5907
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Sally Hunsberger (301) 496-5905

Data Collection Methods

Jared Jobe (301) 436-7111
Theresa DeMaio (301) 763-7331

Employment

Bill Arends (202) 720-6812

WSS NEWS Editors

Theresa Hallquist (202) 586-2051
Hattie Ramseur (202) 586-1124

Membership

Antoinette Martin (202) 254-5409
Renee Miller (202) 254-5507
Fritz Scheuren (202) 874-0700

Videotapes

Ed Milton (202) 366-2751

Quantitative Literacy

Ron Fecso (703) 235-5213

Local Arrangement

Carolyn Shettle (703) 306-1780



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