



WASHINGTON
STATISTICAL
SOCIETY

November 1986
1986: The 60th Birthday of WSS

NEWSLETTER

November 6	Thursday	Some New Procedures for Censored Survival Data
November 17	Monday	National Data on Education: Redesigning the Federal Program
November 18	Tuesday	A Method to Detect Spatial and Temporal Clustering of Disease
November 19	Wednesday	An Analysis of the Fellegi-Sunter Model of Record Linkage
November 20	Thursday	Evaluation of the Analytical Policies and Procedures of Division of Health Care Statistics Surveys (DHCS)
December 2	Tuesday	The Role of a Statistician in a Major Trade Association
December 3	Wednesday	Does Error in the Predictors Really Matter?
December 10	Wednesday	WSS Holiday Party at GWU (FEE EVENT)
December 11	Thursday	Statistical Techniques for Disclosure Avoidance
January 20&21	Tues./Wed.	SHORT COURSE: Analysis of Categorical Data From Complex Samples

The Washington Statistical Society (WSS) and the American Statistical Association (ASA)
Sesquicentennial Celebration---by Daniel Kasprzyk, WSS President

The 1989 Annual Meeting of the American Statistical Association will be held in Washington, D.C. This meeting will celebrate the 150th year of the ASA's existence.

As a result, the 1989 meeting will be special---a major celebration for the association. Sesquicentennial plans have already begun to be formulated. Gary Koch, Chair of the Committee on the ASA Sesquicentennial, met with section representatives at the annual meeting in August to discuss plans for the celebration. I attended this meeting as the 1989 host chapter representative.

Koch's committee is being organized to (1) stimulate suggestions for ASA Sesquicentennial activities; (2) develop special invited sessions for the 1989 annual ASA meeting with a special focus on the Sesquicentennial theme; (3) coordinate ASA Sesquicentennial activities throughout the year preceeding the Sesquicentennial meeting, from August 1988 to August 1989, for section meetings, regional meetings, special seminars or workshops; and (4) to arrange for the presentation of ASA Sesquicentennial sessions at the meetings of other professional organizations for which statistical methods and statistical practices are important.

(CONTINUED)

WASHINGTON STATISTICAL SOCIETY PROGRAM CHAIRS

Agriculture & Natural Resources
Ron Bosecker 447-3895
Maurice Owens 734-4379

Economics
Lynda Carlson 252-1112

Physical Sciences & Engineering
Donald Gantz 425-3931

Employment
Evelyn Kay 331-1153

Public Health & Biostatistics
Jai Choi 436-7047
Mary Foulkes 496-6818

Social & Demographic Statistics
Lee-Ann C. Hayek 357-1587
John Czajka 484-9220

Statistical Computing
Harry Foxwell 872-8058
Sally Howe 921-3395

Short Courses
Virginia deWolf 366-5361
Terry Ireland 301-859-6104
Andrew A. White 436-7022
Glenn White 763-5248

Methodology
Mary Mulry 763-7140
Bill Winkler 252-2140

Newsletter Editor
David Judkins 251-1500

WSS and the ASA Sesquicentennial Celebration (Continued)

I have asked Nancy Kirkendall, WSS President-Elect, to chair an adhoc WSS Committee on Sesquicentennial Planning. Nancy and her committee will be the means by which the WSS has a role in developing sesquicentennial plans; they will also generate ideas on how to make WSS activities in 1988-1989 unique and relevant to the Sesquicentennial themes; the first order of business for the WSS Committee is to develop an invited paper session for the 1989 meeting sponsored by the WSS on the theme--American Statistical Association Past, Present, and Future. Gary Koch expects our suggestions to be presented at the Orlando Winter Meeting in early January 1987. Following this, the committee will develop more ideas for speakers and activities--perhaps joint sessions could be developed with organizations such as the AAAS, the Population Association of America, the American Sociological Association, and the American Public Health Association. The 1989 meeting might also ask well-known public figures who have a strong interest in statistics to give lunch or dinner talks. In a lighter vein, promotional activities for the sesquicentennial could include developing ideas for T-shirts, mugs, hats or buttons geared to the celebration. Call Nancy at 252-2276 or me at 753-5784 if you would like to contribute an idea to the planning of the sesquicentennial activities. We would like to hear from you.

PROGRAM ABSTRACTS

TOPIC: Some New Procedures for Censored Survival Data
SPEAKER: Jane-Ling Wang, University of California-Davis & Rutgers University
DISCUSSANT: Gregory Campbell, National Institutes of Health
CHAIR: Joseph Gastwirth, George Washington University
DATE AND TIME: Thursday, November 6, 1986; 12:30 to 2:00 p.m.
LOCATION: George Washington University, Building C, 2201 G Street, N.W.
ABSTRACT: In a recent paper of Lo and Singh (1985, CW) the product estimator and its quantile process were represented as the mean of an identically independently distributed process plus a remainder of negligible order. Some applications of the identically independently distributed representations will be given in this talk. In particular, the control percentile test procedures are extended to accommodate randomly censored data. The relationship between the fraction of data which is censored and the efficiency of the controlled percentile test is explored numerically. Similar representations are also obtained for the bivariate product limit estimator of Campbell and Foldes (1980) and for its bootstrap version. The implications of the representations will be discussed.

TOPIC: National Data on Education: Redesigning the Federal Program
SPEAKERS: George Hall, Slater Hall Information Products; Paul Planchon, U.S. Dept. of Education; and David Bayless, Westat
CHAIR: Richard Taeuber, Consultant
DATE AND TIME: Monday, November 17, 1986; 12:30 to 2:00 p.m.
LOCATION: Martin Luther King Library, Auditorium A-5, 901 G St., N.W.
ABSTRACT: During 1985 the National Center for Education Statistics began a thorough review of its elementary and secondary education data collection program. The intended product of the effort was the design of a new plan for national data collections from institutions and individuals to be implemented over a several year period. This session will be a panel discussion, featuring members of the teams of external consultants who prepared a Synthesis Report and an Alternative Report. The discussion will focus on the background and findings of the project, the process for redesign of a federal government data system, the politics of the project and a redesign process, and the current status of the project.

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PROGRAM ABSTRACTS (CONTINUED)

TOPIC: A Method to Detect Spatial and Temporal Clustering of Disease
SPEAKER: Richard Raubertas, NINCDS
CHAIR: Sherrie Emoto, NINCDS
DATE AND TIME: Tuesday, November 18, 1986; 1:30 to 3:30 p.m.
LOCATION: Conference Room A, Landow Building, 7910 Woodmont Ave., Bethesda, MD.
ABSTRACT: Data on disease occurrence are often available as a table containing the number of cases observed in a set of regions during each of several time periods. A method of analysis is described which leads to separate tests for spatial, temporal, and space-time clustering of the disease. The analysis also identifies the evidence for clustering associated with specific regions and times.

TOPIC: An Analysis of the Fellegi-Sunter Model of Record Linkage
SPEAKER: William E. Winkler, Energy Information Administration (EIA)
DISCUSSANT: Rich Allen, U.S. Department of Agriculture
DATE AND TIME: Wednesday, November 19, 1986; 12:30 to 2:00 p.m.
LOCATION: Rm. 2736, GAO Building, 441 G Street, N.W. [Call 523-1760 to arrange building entrance.]
ABSTRACT: This talk presents the results of an analysis of the Fellegi-Sunter model of record linkage as it is applied to lists of businesses. Contingency table techniques are used to analyze the independence assumptions required under the model and conditioning techniques are introduced for improving matching efficacy when dependencies occur. Rubin's multiple imputation and Efron's bootstrap methods are used to estimate variances of matching error rates and obtain confidence intervals. Capture-recapture methods are used to estimate the number of matches by different blocking strategies.

TOPIC: Evaluation of the Analytical Policies and Procedures of Division of Health Care Statistics Surveys (DHCS)
SPEAKERS: Henry Miller, and Brian Balicki, Center for Health Policy Studies
CHAIR: Frank Lewis, National Center for Health Statistics (NCHS)
DATE AND TIME: Thursday, November 20, 1986; 1:30 to 3:30 p.m.
LOCATION: NCHS, Rm. 1-23, 3700 East West Highway, Hyattsville, MD.
ABSTRACT: This session reviews a study of the use and publication of data from DHCS Surveys, including analysis of the contents of user data requests and summary of the sources, and analysis of the extent to which DHCS reports address major health care utilization issues.

TOPIC: The Role of a Statistician in a Major Trade Association
SPEAKER: Edward Murphy, American Petroleum Institute
DISCUSSANT: Nancy Kirkendall, EIA
CHAIR: Lynda Carlson, EIA
DATE AND TIME: Tuesday, December 2, 1986; 12:30 to 2:30 p.m.
LOCATION: Rm. BE-069, Forrestal Bldg., 1000 Independence Ave., S.W.
ABSTRACT: Trade associations play a vital role in developing and analyzing statistics about their industry. A necessary balancing job is required between the statistical and policy roles of a trade association. Dr. Murphy heads one of the largest and most prestigious of the statistics departments in a trade association. He will discuss the work of his department, who their users are, the problems which they have in collecting data, and issues such as confidentiality of data between members.

(CONTINUED)

PROGRAM ABSTRACTS (CONTINUED)

TOPIC: Does Error in the Predictors Really Matter?
SPEAKER: Cliff Spiegelman, National Bureau of Standards
DISCUSSANT: Brad Schultz, Washington Consulting Group
CHAIR: Don Gantz, George Mason University
DATE AND TIME: Wednesday, December 3, 1986; 12:30 to 2:00 p.m.
LOCATION: Rm. 315, Martin Luther King Library, 901 G Street, N.W.
ABSTRACT: Regression with errors in the predictors is an old problem with an extensive literature. There still are challenging issues such as modeling, plotting and optimizing. Recent results for these issues are discussed from a personal perspective.

WSS Wine and Cheese Holiday Party

WHEN: Wednesday, December 10, 1986, from 5:30 to 8:00 p.m.
WHERE: George Washington University Club, 21st Street between H & I; Kayser, Parks and Doyle Rooms
COST: \$8.50 per person. See announcement enclosed in this Newsletter.

TOPIC: Statistician Techniques for Disclosure Avoidance
SPEAKERS: Jay Kim, Bureau of the Census, and Michael Strudler, Internal Revenue Service
CHAIR: Larry Cox, Bureau of the Census
DATE AND TIME: Thursday, December 11, 1986; 12:30 to 2:00 p.m.
LOCATION: IRS Auditorium (7th Floor), 1111 Constitution Ave., N.W.
ABSTRACT: In recent years there has been increasing concern that standard steps for removing personal identifiers may no longer be adequate to protect the confidentiality of individuals on public-use microdata files. There is a growing possibility that the combination of data from these fields with other publicly available information could lead to re-identification of specific individuals. This session focuses on two recent studies in which additional disclosure avoidance techniques have been introduced to further ensure confidentiality--one with Census survey data and the other with IRS administrative records. In both cases, the techniques described also attempt to minimize the impact of these manipulations on the subsequent usefulness of the data.

TOPIC: Short Course: Analysis of Categorical Data From Complex Samples
INSTRUCTOR: Robert E. Fay, Bureau of the Census
DATE AND TIME: Tues./Wed., January 20 & 21, 1986; 9:00 to 5:00 p.m.
FEES: WSS & ASA Members \$90; Nonmembers \$110.
INFORMATION: See announcement enclosed in this Newsletter or contact Virginia de Wolf on 366-5361.

ANALYSIS OF CATEGORICAL DATA FROM COMPLEX SAMPLES

Robert E. Fay, U.S. Bureau of the Census
Tuesday and Wednesday, January 20-21, 1987

Analytic methods for cross-classified data originally were developed under simple random sampling assumptions. It is also possible to apply these techniques in a formal manner to estimates derived from complex samples. It has long been recognized, however, that the assumption of simple random sampling may yield estimated standard errors and tests of significance that are seriously inappropriate for complex samples. This course describes several methods that have been proposed to address these issues and pays particular attention to techniques based upon replication methods. The emphasis will be on practical application. A more detailed course description is contained on the second page of this announcement.

DATES: Tuesday and Wednesday, January 20-21, 1987

TIME: 9:00 a.m. to 5:00 p.m. Each day there will be a 1-1/2 hour break for lunch (on your own) and several short breaks for refreshments. A cafeteria is available. Allow time for vehicle registration.

LOCATION: U.S. Bureau of the Census
Room 2412, Building 3
Suitland Federal Center
Suitland, Maryland 20233
(Intersection of Silver Hill Rd. and Suitland Rd., about 25 minutes from downtown.)

FEES: Fees include handouts and coffee breaks.

- * WSS and ASA members.....\$ 90
- * Nonmembers.....\$110

REGISTRATION: Please make check or purchase order payable to the WASHINGTON STATISTICAL SOCIETY and mail with the attached registration form to:

WSS Short Course Committee
c/o Virginia de Wolf
1229 Noyes Drive
Silver Spring, MD 20910

Registration is limited to 80 people. All registration materials, including purchase order, must be received by January 13, 1987.

To receive confirmation of your registration, please enclose a self-addressed, stamped envelope with your registration material. For further information about the course content call Glenn White at (W) 763-5248. For questions about registration or billing call Virginia de Wolf at (W) 366-5361 or (H) 588-8812.

ANALYSIS OF CATEGORICAL DATA FROM COMPLEX SAMPLES

TOPIC:

It is clearly possible to take an estimated cross-classification from a complex sample and to treat these estimates as counts from a multinomial distribution for purposes of log-linear or similar analysis. The correctness of this approach is another matter. Quite frequently, the usual chi-square tests will be inflated by the complex design, so that these tests reject unacceptably often under the null hypothesis. Similarly, the standard errors of the parameter estimates may be seriously underestimated, so that the resulting confidence intervals are too short. This course reviews appropriate methods and presents three in detail: weighted least squares, methods proposed by Rao and Scott, and replication. Practical aspects of applying each method will be described.

The course is designed primarily with the practitioner in mind. Detailed background in survey sampling will not be required, but it will be helpful to have some familiarity with basic sample survey notions. Similarly, previous experience with log-linear models or logistic regression is desirable but not essential. Attendees should have basic knowledge of statistical testing, independence, estimation, and the multinomial distribution. Experience with notions of fitting models to data, such as acquired from use of linear regression, is also important.

Part of the course focuses on useful techniques to choose a suitable replication method for a given sample design. Persons registering for the course may write to the instructor at Statistical Methods Division, U.S. Bureau of the Census, Washington, DC 20233, to suggest specific sample surveys to be used as possible examples for the course, by December 15, 1986.

COURSE OUTLINE:

1. Introduction
2. Log-Linear and Logistic Models
3. Inference for Simple Random Samples
4. Typical Features of Complex Samples
5. Model-Based vs. Design-Based Inference for Complex Samples
6. Effects of the Design on Inference Based on Simple Random Sampling
7. Weighted Least Squares and Wald Tests
8. Methods Developed by Rao and Scott
9. Replication Methods
10. Introduction to the CPLX software
11. General Strategies in Choosing a Replication Method
12. Practical Computing Aspects with CPLX
13. Other Approaches
14. Discussion and Questions

Please enroll me in the WSS Short Course entitled ANALYSIS OF CATEGORICAL DATA FROM COMPLEX SAMPLES to be held on Tuesday and Wednesday, January 20-21, 1987 at the U.S. Bureau of the Census in Suitland, MD.

NAME: _____

ADDRESS: _____

DAYTIME PHONE: _____

The course fee is \$90 if you are a member of either the Washington Statistical Society (WSS) or the American Statistical Association and \$110 otherwise. Please indicate your affiliation(s) and method of payment:

I am a member of: ☐ WSS ☐ ASA.

☐ A check in the amount of \$_____ is enclosed.

☐ A purchase order in the amount of \$_____ is enclosed.

☐ A purchase order in the amount of \$_____ has been approved and is being prepared by my organization:
_____.

Registration is limited to 80 people. All registration materials, including purchase order, must be received by January 13, 1987. Please make check or purchase order payable to the WASHINGTON STATISTICAL SOCIETY.

If you would like written acknowledgement of your enrollment, please enclose a self-addressed, stamped envelope with your registration material. Please mail check/purchase order and this registration form to:

WSS Short Course Committee
c/o Virginia de Wolf
1229 Noyes Drive
Silver Spring, MD 20910

For further information about the course content call Glenn White at (W) 763-5248. For questions about registration or billing call Virginia de Wolf at (W) 366-5361 or (H) 588-8812.

WASHINGTON STATISTICAL SOCIETY
STATEMENT OF INCOME AND EXPENDITURES
FOR SEPTEMBER 18, 1985 TO SEPTEMBER 18, 1986

On Hand September 18, 1985.....\$ 11,866.15

Receipts

Dues collected		8,148.00	
through ASA	7,865.00		
through local associates	283.00		
Interest		825.00	
WSS Short Courses		12,623.81	
Dinners		1,856.00	
Sale of WSS Mugs		35.00	
Total Receipts		23,487.81	
Total Operating Funds			35,353.96

Expenses

Newsletter		11,385.71	
Graham Letter Service	8,605.35		
Postage	1,752.36		
ASA addressing charge	508.00		
Typing	520.00		
Graduate Student Scholarship Awards		81.00	
WSS Letterhead		83.88	
WSS Short Courses		6,230.43	
Stamps, box rent, checks		345.36	
Dinners		2,296.25	
Expenses for Awards		31.10	
Purchase of WSS Mugs		201.00	
Science Fair Awards		209.88	
WSS Brochure		48.71	
Total Expenses		20,913.32	
Difference, operating funds minus expenses			14,440.64

National Permanent Bank **14,440.64**

WSS SHISKIN AWARD

On Hand September 18, 1985 4,647.11

Receipts

Contributions	\$ 150.00	
Interest	271.96	
Total Receipts	421.96	
Total Operating Funds		5,069.07

Expenses

1986 Award to Janet Norwood	\$ 250.00	
Annual dinner (1 person)	18.00	
Total Expenses	268.00	
Difference, operating funds minus expenses		\$ 4,801.07

First Variable Rate Money
Market Fund **\$ 4,801.07**

Bennie A. Clemmer
Treasurer

I have examined the Treasurer's Report of the Washington Statistical Society for the period September 18, 1985 to September 18, 1986. The examination was made in accordance with generally accepted auditing standards. In my opinion, the report presents fairly the cash receipts and disbursements of the Washington Statistical Society for the period September 18, 1985 to September 18, 1986.

Ron Fecso
 Ron Fecso
 Chair, Audit Committee

OTHER ANNOUNCEMENTS

Dave Judkins is New WSS News Editor

As of December 1, 1986, the newsletter will have a new editor: Dave Judkins. He received his BA from Carleton College in Minnesota and MA from Indiana University. After several years working on the Current Population Survey and the Survey of Income and Program Participation at the Census Bureau as a mathematical statistician, he recently started work with Westat, Inc. His main interests have been in stratification, noninterview adjustment and estimation of gross flows. Notices should be received by him at Westat, 1650 Research Boulevard, Rockville, MD 20850, no later than the first of the preceding month (i.e., by November 1 for inclusion in the December Newsletter). His phone number at Westat is 301/294-2066. Note that employment notices should still be sent to Evelyn R. Kay.

Fairfax County Public Schools Seek Speakers

The Fairfax County Public Schools are soliciting scientists' participation in a new program called COMETS (Career Oriented Modules to Explore Topics in Science) for grades 7-9. "Participation" would mean a classroom presentation, oriented toward particular statistical concepts, a general discussion of what statisticians do, or a specific discussion of one's own job. Specific topics in the curriculum include probability, sampling, graphing, estimation, data interpretation, and computer programming. Anyone interested in volunteering for this project or in receiving further information should contact Mrs. Johnnie Hamilton or Ms. Debbie Clem at (713) 698-7500, X8849.

WSS Short Course Committee

The Short Course Committee intends to present 4 to 6 one- or two-day courses this year. The first course, "Analysis of Survival Data" with David Oakes, was held in October. The second short course will be presented in January, 1987,--"The Analysis of Categorical Data from Complex Samples" given by Robert Fay (see announcement enclosed in this newsletter for details). Other short courses under consideration and development include the following topics: model-based sampling, development of visual aids for presentation of statistical information, and several courses on graphics. The Short Course Committee is interested in hearing suggestions from WSS members on these plans. The Short Course Committee would also like to see more students attend WSS short courses. Enrollment fees are reduced for students. Faculty members are encouraged to inform students about WSS courses. Finally, the Committee needs help in automating the billing for the WSS short courses. If any WSS member has experience in using software for billing and would be willing to share his/her expertise we would be interested in talking to you. Please contact the Committee Chair, Virginia de Wolf at 366-5361 or 588-8812 if you have ideas or suggestions on any of the above topics.

Science Fairs 1987

Last spring, WSS joined a number of scientific associations in sponsoring awards at science fairs in the metropolitan Washington area. WSS volunteers judged and awarded prizes at six area fairs: Washington, D.C., Montgomery County, Prince Georges' County, Fairfax County (2), and Arlington/Alexandria/Falls Church. All who participated enjoyed the opportunity to meet and talk with students about statistics and its applications to scientific investigations. This was a highly successful venture which we hope to continue as an annual project.

The ASA has recognized the importance of establishing a presence for statistics in the community of science- and math-oriented high school students by agreeing to sponsor an annual award at the International Science and Engineering Fair, at which grand prize winners from the regional fairs compete.

OTHER ANNOUNCEMENTS (CONTINUED)

Science Fairs 1987 (Continued)

The WSS is now calling for volunteers to judge the 1987 fairs. Based on last year's experience, we would really like to provide four judges per fair, which means we will need more volunteers than last year. All that is required is one Saturday morning next March or April to judge the projects, and one week-day lunch time meeting prior to the fairs to discuss judging strategy and to distribute the prizes to be awarded. If you are interested in volunteering, or would like more information, please call Susan Ellenberg at 496-4836.

Notes from September Board Meeting

September 30 marked the first meeting for three new members of the WSS Board--David Judkins, who will take over as Newsletter Editor with the December issue; Marie Argana, who will phase in as the new Secretary; and Ron Bosecker, who will be co-chairperson for Agriculture and Natural Resources program sessions. Dan Kasprzyk announced that Nancy Kirkendall will chair the committee to coordinate our efforts for the 1989 ASA 150th celebration. Mike Cohen will head a committee (with David Judkins and Julia Oliver) to review our Newsletter procedures. Wendy Alvey and David McMillen are to lead efforts to explore options for more and better service to WSS members.

A Quarter Century of Graduate Student Awards

1986 marked the 25th year of the Washington Statistical Society program which recognizes outstanding graduate students at local universities. Each year local universities are asked to name one graduate student with an interest in statistics to receive a 1-year membership in ASA and WSS. In addition, students named are invited to be the guest of the Society at its annual dinner in the spring.

WSS has simple criteria for the award. The person named must be a full-time student, they must have demonstrated an interest in statistics (they do not have to be majoring in statistics), and they must not have received the award before.

WSS has tried to cover all local universities with graduate programs. Johns Hopkins was included in the program for the first 10 years until the Maryland chapter of ASA was established. George Mason University was added to the program for the first time in 1974. Award presentations have totaled 137 in the 25 years of the program, with annual totals ranging from 8 down to 3. The low totals have come in years when some universities had few full-time graduate students.

The Society hopes that the award program has been helpful to each and every recipient. It was particularly pleasing to Board members to see two award winners (Jeremy Wu, George Washington University 1977 and Ayah Johnson, George Washington University 1981) serve in later years as member of the WSS Board.

National Agricultural Statistics Service Personnel Changes

The National Agricultural Statistics Service (NASS) of the U.S. Department of Agriculture completed a reorganization of its headquarter's staff October 1, 1986. One of the major changes was the establishment of two Deputy Administrator positions instead of one. Ray Hancock is now the Deputy Administrator for Operations and Charles Caudill is the Deputy Administrator for Programs. In Division level changes of responsibilities, Fred Vogel is now the Director of the State Statistical Division, Bob Tortora is Director of Research and Applications Division, and Phil Zellers is Director, Survey Management Division. Bill Kibler continues as Administrator and Rich Allen as Director, Estimates Division.

(CONTINUED)

OTHER ANNOUNCEMENTS (CONTINUED)

National Agricultural Statistics Service Personnel Changes (Continued)

In major Branch level changes, Jim Davies is Chief, Statistical Methods Branch; Ron Bosecker is Chief, Sampling Frames Branch; Bill Pratt is Chief, Livestock, Dairy, and Poultry Branch; Ray Halley is Chief, Data Collection Branch; George Hanuschak is Chief, Survey Research Branch; and Richard Sigman is Director of Statistical Standards Staff.

OTHER PROGRAMS

Bureau of Labor Statistics Seminar Series

Alastair Scott from the University of Wisconsin will speak on "Analysis of Categorical Data from Complex Surveys" on Monday, November 3 from 10:00 - 11:00 a.m. The talk will be held in Room 2736 - GAO Building, 441 G Street, N.W. Individuals outside the BLS that wish to attend should call 523-1760 to arrange for building entry. For more information, contact Sandra West at 523-1874.

1987 ASA Winter Conference

The first annual ASA Winter Conference will be held January 7-9, 1987, at the Peabody Hotel in Orlando, Florida. The Peabody is a new hotel located in close proximity to the tourist attractions southwest of Orlando.

The theme of the 1987 Winter Conference is "Statistics in the Information Age." Three participating ASA Sections will sponsor sessions: Statistical Computing, Statistical Education, and Statistical Graphics. Papers will be generally more expository and applied in orientation than at the Annual Meetings, with the goal of appealing to a broad spectrum of persons practicing statistics. Some objectives are to provide an opportunity to learn from experts on current topics in statistical computing, education, and graphics; to provide a forum for discussion of topics of general interest in these areas; and to provide a medium for practicing statisticians to relate useful experiences in computing, education, and graphics.

Registration, housing and employment forms appear in the September-October issue of Amstat News. Nonmembers may request this material by contacting the American Statistical Association, 806 15th Street, N.W., Suite 640, Washington, D.C. 20005; (202) 393-3253.

Washington Academy of Sciences Seminar

On Thursday, November 20, 1986, Rita Colwell from the University of Maryland will speak on "A New View of Marine Biology through Marine Biotechnology." The talk will be held the Mary Grayden Center, American University, at 8:30 p.m. Preceding Dr. Colwell's presentation, there is a social hour at 6:45 and a dinner at 7:30. There is a charge for the social hour and dinner. Reservations must be made one week in advance by calling 320-3621. There is no fee for attendance of only the lecture.

EMPLOYMENT COLUMN

Deadline for inserting notices
is 5 weeks before the publication
date

Send notices and requests to:
Evelyn R. Kay
520 - 22nd Street, N.W.
Washington, D.C. 20037 202/331-1153

Statistician: Science Applications International Company's Environmental Technology Group seeks statisticians with one to ten years experience to join its statistical analysis unit located in McLean, Virginia. A current working knowledge of mathematical statistics, good writing skills, and experience in computer applications--either PC or mainframe--are absolute requirements. Experience or education in engineering, biological, or environmental sciences is a plus. Interested statisticians should contact Dr. Maurice E. B. Owens, SAIC, 8400 Westpark Drive, McLean, Virginia 22102, (803) 734-4379.

Assistant Professor: Computer and Information Sciences: The Department of Statistics/Computer and Information Systems at the George Washington University has an opening for an Assistant Professor, tenure accruing, in the computer and information systems areas. Position requires a Ph.D in Computer Science or a closely related area. Applicants should have a strong commitment to both teaching and research in computer science. Candidates with expertise in artificial intelligence are particularly welcome, but applicants from all areas of computer science are invited. An interest in the interface between computer science and statistics is desirable. Interested candidates should address inquiries to: Robert Smythe, Chairman, Department of Statistics/Computer and Information Systems, George Washington University, Washington, D.C. 20052.

Social Science Research Analysts: Immediate staff openings with the Federal Bureau of Prisons. Salary potential is \$21,804 to \$57,759. Researchers work on projects related to prison management, staff, prisoners and programs. Familiarity with prison issues is helpful, but demonstrated research competency is more important. Candidates should be familiar with interactive processing (especially IBM/C.M.S.) and statistical packages including SAS, SPSS and Biomed. A Ph.D. is preferred, but not essential. Candidates must be able to demonstrate a solid research background in any of the behavioral sciences. Special strength areas: Statistics, data processing; research design. Send resumes and Civil Service Form 171 to Peter Nacci, Ph.D., Director, Office of Research and Evaluation, Federal Bureau of Prisons, 320 First Street, N.W., Room 300, Washington, D.C. 20534, (202) 724-3228.



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Washington, D.C. 20026

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