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Washington Statistical Society

CHAPTER • AMERICAN STATISTICAL ASSOCIATION



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NEWSLETTER - FEBRUARY 1974

February 20 - Synthetic Estimation
March 5 - Statistical Problem Solving
Using the OMNITAB II
Computing System

MEETING OF THE METHODOLOGY SECTION OF THE WASHINGTON STATISTICAL SOCIETY

Topic : Synthetic Estimation
Chairman : Joseph Waksberg, Bureau of the Census
Speakers : Walt Simmons, National Center for Health Statistics
Maria Gonzalez, Bureau of the Census
Discussant : Hyman Kaitz, Bureau of Labor Statistics

Synthetic estimation is a method which has been used to obtain small-area statistics. The estimates are produced by applying relationships developed in a survey covering a larger area (of which the small areas are sub-sets) to parameters of the small areas that are known independently of the survey. Synthetic estimates are biased; however, the average mean square errors can be estimated from the sample data.

The method has been used by the National Center for Health Statistics to produce State disability estimates. The Bureau of the Census has used it to measure the precision of certain allocation methods and is examining the reliability of labor force estimates prepared through the use of synthetic estimates.

The method is still in an experimental stage. Further plans to investigate the properties of synthetic estimates using the 1970 Censuses of Population and Housing will be discussed.

When and Where: Tuesday, February 20, 12:30 p.m., Conference Room A,
Interdepartmental Auditorium, Constitution Avenue
(between 12th and 14th Streets, N.W.) This will not be

a luncheon meeting. Those wishing to have lunch before the meeting will find a number of restaurants near the auditorium.

MEETING OF THE PHYSICAL SCIENCE
AND ENGINEERING COMMITTEE

Topic: Statistical Problem Solving Using the OMNITAB II Computing System

Chairman: James Filliben, National Bureau of Standards

Speaker: David Hogben, National Bureau of Standards

The basic features of the highly user oriented OMNITAB II computing system will be described and illustrated. Then OMNITAB will be used to solve easily, accurately, and effectively both standard and non-standard statistical problems. It will be demonstrated how the combination of so-called "packages" with a rich natural language enable statisticians to "play" with data easily. A large set of data and matrix operation instructions permit easy analysis of subsets of data and solutions of non-standard problems with little "programming".

When and Where: Monday, March 5, 1:00-2:00 p.m., Wilson Hall, National Institutes of Health. Wilson Hall is located on the 3rd floor of Building 1.

The Washington Statistical Society Methodology Section apologizes

To the Chairman, Benjamin J. Tepping, Bureau of the Census

to the Speakers, Barbara Bailar and Louis Williams, Bureau of the Census

to the Discussant, Morris H. Hansen, Westat Research, Inc.

and to all who attended the January meeting on

Panel Bias in Surveys

We apologize for the inconvenience caused to you by our error in the January Newsletter in reporting the location of the meeting and for underestimating the space required for the audience.

Nevertheless, the meeting was so successful we had to post a "traffic cop" to direct the large turnout to the proper meeting room which was soon filled beyond capacity!

Harry M. Rosenblatt
Chairman, WSS Methodology Section

NEW PROGRAM CHAIRMAN OF THE COMPUTER TECHNOLOGY COMMITTEE

Roy Wampler of the National Bureau of Standards has agreed to accept the position of Program Chairman of the Computer Technology Committee for the remainder of the current year. He will replace Jim Mosimann who resigned because of heavy commitments.

NIH PROBABILITY AND STATISTICS SEMINARS

Speaker and Topic: Dr. David Siegmund of Columbia University, "Open Ended Testing"

When and Where: Friday, February 23, 11:00-12:30 p.m., Building 1, Wilson Hall, National Institutes of Health.

Speaker and Topic: Prof. Herbert Solomon of George Washington University, "Poisson Processes in the Plane and Applications"

When and Where: Wednesday, March 7, 11:00-12:30 P.M., Building 31, Conference Room 4, National Institutes of Health.

GEORGE WASHINGTON UNIVERSITY--STATISTICS DEPARTMENT

Speaker and Topic: Dr. Phillip Good, "A Stochastic Model for the Development of Human Cell Populations"

When and Where: Wednesday, February 14, 7:00 p.m., George Washington University, Building "C" Room 317, 2201 G St., N.W.

JOB APPLICANTS

Listed below are brief descriptions of the qualifications of individuals submitting an application seeking employment. Any employer interested in interviewing the applicants should notify Mrs. Marie D. Eldridge of their interest by Code Number. The notification should be by mail and should include the 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 confidential. Mrs. Eldridge's address is: Chief, Mathematical Analysis Division, National Highway Traffic Safety Administration, U.S. Department of Transportation, Room 5120, Washington, D.C. 20590.

| <u>Code Number</u> | <u>Applicant</u> |
|--------------------|---|
| 99-12-2 | (1) B.B.A., Management; M.B.A., Operations Research and Statistics; (2) Program and management analysis, statistical analysis, and modeling; (3) Four years in operations research, three years as program and statistical analyst and project direction; (4) GS-14 or \$23,000; (5) Government or private industry in the Washington, D.C. area. |
| 100-12-2 | (1) B.A., M.Sc. (hyg.) in Biostatistics, J.D. in law (February 1973); (2) Testing, inference, data reduction, computer programming, preparation of statistical evidence in litigation and administrative proceedings; (3) Eight years; (4) \$18,000; (5) Government or private industry in Washington, D.C. area. |
| 101-12-2 | (1) M.S., B.S. (OA); BS (EE); (2) Operations/Systems Research/Analysis/Management. Information Systems. PRE; (3) 30 years; (4) GS-16, (15 if advancement potential); (5) Government anywhere (D.C. or overseas preferred). |
| 102-1-3 | (1) B.S. Statistics, M.S. Statistics in Progress; (2) Statistical computing, health applications; (3) Four Years; (4) GS-9 or \$12,000; (5) Private industry or Government in the metropolitan area. |

Code Number

Applicant

103-1-3

(1) B.S.; (2) OR, information science, systems analysis, project management; (3) Five years; (4) GS-12 (Operations Research) (5) Government in the metropolitan area.

CODE: (1) Education
(2) Fields of Competence
(3) Years of Experience
(4) Salary or GS level requirement
(5) Type of employment and geographic area