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# Washington Statistical Society

CHAPTER • AMERICAN STATISTICAL ASSOCIATION



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## NEWSLETTER - FEBRUARY 1975

- February 5 - New Results in Weibull Inference
- February 6 - U.S. Balance of Payments Statistics Presentation
- February 12 - Problems at the Interface of Epidemiology and Clinical Trials: The Design of the Multiple Risk Factor Intervention Trial
- February 19 - Network Sampling
- February 28 - Problems in Agriculture Statistics

### PHYSICAL SCIENCE AND ENGINEERING PROGRAM

Topic: New Results in Weibull Inference

Speaker: John I McCool, SKF Industries, Inc.  
King of Prussia, Pa.

Chairman: Dr. Carl Harris, Federal Energy Office

Results are presented and illustrated via numerical examples for the conduct of multiple comparison tests based upon the maximum likelihood estimates obtained in samples of size  $n$ , type II censored at  $r$  failures, drawn from  $k$  2-parameter Weibull populations.

Further results on drawing inferences on the shape parameter and an arbitrary percentile of a 2-parameter Weibull population using a sample of data censored by a competing Weibull failure mode, are described and illustrated by an example.

The particularly simple form of the maximum likelihood estimates of the shape parameter and an arbitrary percentile of the 2-parameter Weibull when only the 1st and  $r$ -th failures are used is described and a sample calculation shown.

When and Where: Wednesday February 5, 12:30-2:00 P.M.  
Tower Building, 1401 K St.N.W., Basement  
Conference Room. To gain entrance to the building, show the Guard a copy of the Newsletter announcing the society meeting.



## ECONOMICS PROGRAM

**Topic:** U.S. Balance of Payments Statistics Presentation

**Chairman:** David T. Hulett, Office of Management and Budget

**Panelists:** Tom Willett, Deputy Assistant Secretary for  
Research Treasury Department  
Joe Kvasnicka, Senior Staff Economist  
Council of Economic Advisers  
Geza Feketekuty, Director, Trade Analysis &  
Policy Planning Office of the Special  
Representative for Trade Negotiations  
Jack Bame, Associate Director for International  
Economics Bureau of Economic Analysis

The discussion will concern the presentation of the U.S. balance of payments statistics with particular emphasis on the continued usefulness of the summary balances on official reserve transactions, net liquidity, and current account and long term capital during the period of managed floating exchange rates and investment of oil revenues by official institutions. Alternative presentations will be proposed and a period for comment from the floor will be provided.

**When and Where:** Thursday, February 6, 1975, 12:30-2:00 P.M.  
George S. Boutwell Auditorium, 7th Floor,  
IRS Building, 1111 Constitution Avenue, N.W.  
(There is a cafeteria on the 7th floor close  
to the auditorium.)

## PUBLIC HEALTH AND BIostatISTICS PROGRAM

**Topic:** Problems at the Interface of Epidemiology and Clinical Trials:  
The Design of the Multiple Risk Factor Intervention Trial.

**Chairperson:** Tavia Gordon, National Institutes of Health

**Speaker:** Max Halperin, Chief of Biometrics, NHLI

The MRFIT, which is a study of the effectiveness of lowering blood pressure, serum cholesterol and cigarette smoking in reducing the incidence of heart attacks is based on prospective experience in human populations. The method by which the observed experience is used for designing the trial, and the methodological difficulties involved, are the subject of this talk.

**When and Where:** Wednesday, February 12, 1975, 11:00 A.M.  
Conference Room #4, Building #31, NIH



**METHODOLOGY PROGRAM**

**Topic:** Network Sampling

**Speaker:** Monroe Sirkin, National Center for Health Statistics

**Chairman:** Thomas Jabine, Social Security Administration

Network sampling applies to surveys which use multiplicity counting rules and thereby permit the same population element to be enumerated at more than one enumeration unit. The set of enumeration units that is eligible to report the same element in the survey is called a network. Unbiased multiplicity estimators are obtained by weighting each of the sample elements on the basis of ancillary information about its network, such as its network size, which is usually collected in the survey. This paper investigates the strategy of selecting optimum counting rules by comparing the effects of different counting rules and different weighting functions on the sampling variability of the survey estimates and the costs of conducting the survey.

**When and Where:** Wednesday February 19, 12:30 - 2:00 P.M.  
George S. Boutwell Auditorium, 7th Floor, IRS Building, 1111 Constitution Avenue, N.W. (There is a cafeteria on the 7th floor close to the auditorium.)

**JOINT MEETING OF ECONOMICS AND AGRICULTURE SECTIONS**

**Topic:** Problems in Agricultural Statistics

**Chairmen:** David T. Hulett - Office of Management and Budget  
Fred Vogel - Department of Agriculture

**Speaker:** Gary Seevers, Member, Council of Economic Advisers

**Discussants:** Gaylord Worden, Economic Research Service, USDA  
Harry Trelogan, Statistical Reporting Service, USDA

**When and Where:** Friday, February 28, 12:30 - 2:00 P.M.  
Room A-5  
Martin Luther King Jr. Library  
901 G Street, N.W.



JOB APPLICANTS

Listed below is a brief description of the qualifications of individuals submitting an application seeking employment. Any employer interested in interviewing the applicant 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 employee will be notified of the employer's interest and initiation of any further contact will be left to the employee. All contacts will be confidential. Mrs. Eldridge's address is: Director, Office of Statistics and Analysis, Research and Development, National Highway Traffic Safety Administration, U.S. Department of Transportation, 400 Seventh Street, S.W., Room 5125, Washington, D.C. 20590.

<u>Code Number</u>	<u>Applicant</u>
151-1-5	(1) B.S., M.S. Statistics (biostatistics). 70 semester hours in statistics. A-student; (2) Econometrics, biostatistics, multiple regression analysis (cross section, time series, time series-cross section), Box-Jenkins time series analysis, operations research, experimental design, sampling, and Fortran programming; (3) 7 years experience in industry, health and government; (4) GS-12 or \$18,000; (5) Government, consulting firm, or industry in D.C. area.
152-1-5	(1) B.A. Mathematics; (2) Statistics and probability, regression, correlation, time series, decision theory, quality control; data reduction and analysis of clinical trial data; (4) Junior Statistician - salary open; (5) Government, consulting firm, or industry in D.C. area.
153-1-5	(1) B.S. Business Administration; (2) Analytical Statistician (health, medicine) operations and administrative, general, survey statistician; (3) 25 years; (5) Washington metropolitan area.
154-1-5	(1) B.S. Mathematics, M.S. Biostatistics; (2) Statistical analyst, operational evaluation trails, generation of test plans, computer programs, statistical analysis; (3) 4 years; (4) Statistical analyst, salary open; (5) Government, or industry in D.C. 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



JOB OPENINGSU.S. Civil Service Commission1. Mathematical Statistician GS-1529-14

The Manpower Statistics Division has an opening in the Planning and Methods Section to serve as the technical expert in the application of mathematical statistics methodology for the U.S. Civil Service Commission. As senior member of the Planning and Methods staff, the incumbent has prime responsibility for development and technical review of valid application of statistical methodology in the Division. Experience in planning and methods covering a wide variety and breadth of techniques and methodology is required; graduate education preferably at the Ph.D level in mathematical statistics is desired.

2. Operations Research Analyst GS-1515-13

The Manpower Statistics Division has an opening for one Operations Research Analyst in the Planning and Methods Section. Incumbent serves as a senior advisor and/or project leader covering a wide variety of analytical methodology dealing with manpower studies and with operational management problems. The incumbent must have an extensive knowledge of operations research and related disciplines (mathematics, statistics, and automatic data processing). Advanced degrees and a good managerial perspective are highly desirable.

3. Survey Statistician GS-1530-05/7/9/11

Three survey statistician openings at the GS-5 through 11 level in the Manpower Statistics Division. Duties involve progressive responsibilities in the conduct of Government-wide studies of Federal Civilian employment. In addition to commensurate statistical qualifications, experience and interest in project management is highly desired.

For information on any of the above positions contact Mr. John E. Curnow, Chief, Manpower Analysis Section, Room 6416, U.S. Civil Service Commission, 1900 E Street, NW. 20514, Telephone 632-6240.

Department of Housing and Urban DevelopmentFederal Housing Administration, Office of Management SystemsMathematical Statistician - GS-1529-7/9/11

The Advanced Statistical and Computer Applications Staff has an opening for a Mathematical Statistician. Duties include the development of quantitative techniques for management and adapting statistical methodology to operations problems; also includes the programming and operation of remote terminals in the development of such measures; analysis of statistical data on HPMC operations as they apply to special problems of importance to program offices; designing and/or preparing documentation for computer systems. Academic background, preferably a bachelors degree in the field of computer science, statistics, mathematics, operations research or applied quantitative analytic techniques. Some exposure to the use of statistics and computer techniques in the field of management of the social sciences. Background in economics or finance would be preferred but not essential. Applicants may contact Mr. Shaw or Mr. Goldstein by calling 755-8116 or by writing directly to:

Mr. William F. Shaw  
 Director, Advanced Stat. & Computer Appl. Staff  
 Room 6254, HUD Building  
 Washington, D.C. 20411



Department of the Air Force

"The Federal Computer Performance Evaluation and Simulation Center (FEDSIM), an equal opportunity employer, is located in the Ravensworth Shopping Center, Springfield, Va. FEDSIM has vacancies at the GS-5, GS-7, and GS-9 levels (330-Computer Specialist and 1515-Operations Research Analyst series) for computer programmers who have little or no background or experience in the simulation of computer systems or computer performance evaluation techniques and are willing to enter a one-year training program. Vacancies also exist at the GS-11, GS-12, and GS-13 levels (330 and 1515 series). These do require a one-year minimum mandatory experience in either the simulation of the hardware and software components of computer systems using simulation packages or a higher level language, or computer performance evaluation using hardware and/or software monitors."

Interested applicants should forward their SF 171 to:

Department of the Air Force  
FEDSIM/CC  
ATTN: Lt Col Richard A. Lejk  
Washington, D.C. 20330

Bureau of the CensusMathematical Statisticians (GS-12-14)

These positions are located in the Statistical Methods Division which is responsible for developing, directing and coordinating statistical aspects of surveys to produce Population and Housing statistics, and for developing and conducting research and experiments on methodology to be used in the collection and compilations of these data.

An applicant should have training in Mathematical Statistics, probability, statistical inference, and sample survey theory and/or applications. Experience in the design and conduct of sample surveys and the ability to supervise a staff of mathematical statisticians of lower grades in sample design and applications work are desirable. Interested applicants may send a resume' or SF-171 to: (Telephone (301)-763-2672)

Mr. Morton Boisen, Chief  
Statistical Methods Division  
Bureau of the Census  
Room 3705 FOB #3  
Washington, D.C. 20233