Washington Statistical Society

CHAPTER • AMERICAN STATISTICAL ASSOCIATION

NEWSLETTER-APRIL 1975

April 11 - Robustness of The Linear Discriminant Function

April 17 - Statistics on Energy

April 23 - Evaluating Risks to Human Populations

April 28 - Measures of Health Status

April 29 - Optimal Resource Allocation for Maximizing System
          Reliability

NIH PROBABILITY & STATISTICS SEMINAR

Topic: Robustness of the Linear Discriminant Function

Chairman: Roy C. Milton - National Eye Institute

Speaker: Peter A. Lachenbruch - University of North Carolina

A brief introduction to the Linear Discriminant Function will be given.
The underlying assumptions will be discussed, and then the effects of
departures from these assumptions will be covered. These include:

1. Correct assignment of initial samples

    a. Random misclassification
    b. Non-random misclassification

2. Covariance Matrices unequal

3. Non-normal distributions

    a. Multivariate Bernouilli
    b. Poisson, Negative Binomial
    c. Continuous members of Johnson system

If time permits, some discussion of logistic discrimination will be given.

When and Where: Friday, April 11, 1975, 2:30 p.m. - 3:30 p.m.
                 Wilson Hall, 3rd Floor, Bldg. 1
                 NIH, Bethesda, Maryland

ECONOMICS PROGRAM

Topic: Statistics on Energy

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

Speaker: Al Linden, Director, Office of Data Services
             Federal Energy Administration

Discussants: John E. Hodges, Director, Division of Statistics
             American Petroleum Institute

             John Schanz, Resources for the Future

             Ben Cooper, Professional Staff, Senate Committee on
             Interior and Insular Affairs

The presentation will center around the existing and planned data systems of
the Federal Energy Administration as they relate to the FEA mission.   The
discussants will react to the FEA program and present their views on energy
statistics based on a wide range of backgrounds.   A period for discussion
among the participants and comments from the audience will be provided.

When and Where: Thursday, April 17, 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.)

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JOINT METHODOLOGY AND PUBLIC HEALTH AND BIOSTATISTICS PROGRAM

Topic: Evaluating Risks to Human Populations

Chairperson: Eleanor Thomas, National Science Foundation

Speakers: Nathan Mantel, George Washington University - Presentation of
                  Paper: "Safety Testing of Carcinogens"

           Charles Brown, National Cancer Institute

Panel Discussion: Adrian Gross, Food & Drug Admin.
                   Michael Privall, Environmental Protection Agency
                   Fred Sperling, Howard University

The purpose of this meeting is to bring scientists and administrators concerned
with estimating risks of human exposure to carcinogens, pollutants and other
toxic substances together with statisticians interested in the methodological
problems in this area. The paper to be presented provides a review of statistical
research in this area and updates the Mantel-Bryan procedure for calculating safe
doses of carcinogens by utilizing more effective procedures for taking into account
any spontaneous tumor rate and for combining data at several dose levels. It also
permits the combining of data from several experiments. The panel discussion will
focus on the current activities and methodology needs of regulatory agencies and
toxicologists in evaluating risks to human populations.

When and Where: Wednesday, April 23, 1975, 11:00 AM - 12:30 P.M.
                  Conference Room 6, Bldg. 31, NIH Campus, Bethesda, Md.

PUBLIC HEALTH AND BIOSTATISTICS PROGRAM

Topic: Measures of Health Status

Speaker: Martin K. Chen, National Center for Health Services Research

Mr. Chen will discuss two indices of individual and group health based on aggregating a number of psysiological measurements theoretically or empirically related to health.

When and Where: Monday, April 28, 1975, 11:00 to 12:30.
                  Conference Room 5, Bldg. 31, National
                  Institutes of Health

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PHYSICAL SCIENCE AND ENGINEERING PROGRAM

COSPONSORED WITH

THE GEORGE WASHINGTON UNIVERSITY DEPARTMENT OF OPERATIONS RESEARCH

Topic: Optimal Resource Allocation for Maximizing System Reliability

Speaker: Gerald J. Lieberman, Chairman, Department of Operations
                      Research, Stanford University

Chairman: Seymour M. Selig, Office of Naval Research

In the design of a new system, or the maintenance of an old system, allocation of resources is a prime consideration. In allocating resources it is often beneficial to develop a solution that yields an optimal value of the system measure of desirability. In the context of the problems considered in this lecture the resources to be allocated are components already produced (assembly problems) and money (allocation in the construction or repair of systems). The measure of desirability for system assembly will usually be maximizing the expected number of systems that perform satisfactorily and the measure in the allocation context will be maximizing the system reliability. This session will survey several papers in this area.

When and Where: Tuesday, April 29, 1975, 3:00 P.M.
                  The George Washington University
                  Building C, Room 100
                  2201 G Street, N.W.
                  Washington, D.C.

IMS-ASA MEETING

On May 21-23, 1975 a joint IMS-ASA Meeting will be held at the University of Rochester. A variety of invited and contributed papers will be presented. The IMS invited sessions are entitled Probability; Non-Parametric Statistics: Robustness; Clustering; and Contributions to Statistics by Scientists in Other Disciplines. Joint IMS-ASA (SPES) sessions are entitled Statistical Design and Computer Graphics. ASA sessions are entitled Design, Response Surfaces, Optimality and Applications and Recent Advances in Time Series Analysis. A special invited paper will be presented by G.S. Watson entitled "Least Squares."

Additional information will appear in the Amstat News or may be obtained by letter to: IMS-ASA Meeting, University Conference Office, University of Rochester, Rochester, New York, 14627.

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FUTURE MEETINGS

Circle the following dates on your calendar for two meetings being planned for early May.

May 1 - Richard Schweitzer of the Bureau of the Census will discuss the enhancement of the analyses of spatial statistical patterns through the use of automated cartography. Examples will be shown of how several variables in an area can be shown to interrelate through the use of patterns and intensity of colors displayed over a geographic area by new techniques of automated cartography.

May 6 - Privacy, Confidentiality, and Federal Statistics. Plans are being made to have several speakers interpret the inpact of recent privacy and confidentiality legislation on Federal Statistics. Ample time will be provided for questions and comments from the floor.

Additional details will be given in the May Newsletter.

JOB OPENINGS

U.S. DEPARTMENT OF AGRICULTURE
Statisticial Qualifications
Food Stamp Program - has immediate openings for grades GS-7, 9 and 11 levels in Washington, D.C. The work involves quality control, sampling, data analysis, and the preparations of reports. An appreciation of mathematical theory is desirable but an applied statistician is the primary need. Applicants must meet eligibility requirements of the Civil Service Commission through the PACE examination. Interested persons should contact:

> Priscilla A. Shaw
> Room 666
> 500 12th Street, N.W.
> Washington, D.C. 20250
>
> (202) 447-8332

SOCIAL SCIENCE RESEARCH COUNCIL

Social Science Reseach Council. Center for Coordination of Research on Social Indicators. Opening for Staff Associate, Seeking a social scientist interested in social measurement and quantitative analysis and interpretation. Background in survey research and familiarity with government data programs desirable. Salary competitive. Starting date flexible. Send resume and publications (or inquiries) to Robert Parke, Director, SSRC Center for Social Indicators, 1755 Massachusetts Ave., N.W., Washington, DC 20036; telephone: 202/667-8884. PhD. candidates should be preapred to submit drafts of dissertation. Equal Opportunity/ Affirmative Action employer.

Federal Deposit Insurance Corporation, Office of Management Systems

The Information Services Branch has an opening for one Mathematical Statistician. Duties include the design of management information systems for commercial bank supervision, regulation, and examination involving the processing of massive amounts of bank financial data into meaningful information on individual banks and the banking industry. An academic background with a bachelor's degree in statistics, mathematics, or operations research is preferred. A background in financial analysis is desirable but not required.

Applicants may write directly to enclosing an SF-171.

Mr. Robert P. Rogers, Deputy Director
Office of Management Systems
Federal Deposit Insurance Corporation
550 17th Street, N.W.
Washington, D.C. 20429

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Public Health Service, National Institutes of Health.
Immediate opening for a Statistician GS-11/13. Primarily the conduct
and analysis of surveys of utilization of mental health facilities,
writing and analysis skills essential. Interested persons should
contact:

Carl Taube
Chief, Survey and Reports Branch
National Institutes of Health - Parklawn Bldg., Room 180-17
Bethesda, Maryland 20014

Phone: 443-3343

JOB APPLICANT

Listed below is a brief description of the qualifications of an individual
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.

Code Number	Applicant
158-3-75	(1) B.S. Statistics all work for M.S. Statistics; (2) Sampling, operations research, time-series analysis, Fortran programming, survey design, knowledgeable about banking data and information; (3) 7 1/2 years; (4) GS-12, $12,000; (5) Government or Private Industry, Baltimore-Washington 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

One of your privileges and responsibilities as a paid member of the Washington Statistical Society is to cast a ballot in the annual election. The official ballot is enclosed with this Newsletter for your use in exercising your right to vote. Please mark the ballot and return it immediately. WSS will guanantee the postage. Ballots must be received by MAY 1 to be counted.

Given below are brief biographical sketches of candidates in the order they appear on the ballot, who have agreed to run for office for the 1975-1976 season.

MARIE D. ELDRIDGE, Director, Office of Statistical Programs and Standards, National Highway Traffic Safety Administration, Department of Transportation. Fellow of the ASA. In WSS, served on various WSS committees including Fellows (1971) and Employment Committee 1971 to Present.

JOAN R. ROSENBLATT, Chief, Statistical Engineering Laboratory, National Bureau of Standards. Fellow of the ASA, Chairman Section on Physical and Engineering Science. Fellow of the IMS, Council member and Program Secretary. Member IASPS, IASS, RSS, WAS. In WSS, Executive Committee 1962-1964.

CHARLES JONES, Assistant Division Chief, Statistical Methods Division, Bureau of the Census. Member of ASA, IASS, PAA. In WSS, Secretary - Treasurer.

BARBARA BAILAR, Chief, Research Center for Measurement Methods, Bureau of the Census. Member of ASA, IASS, IMS, PAA. In WSS, currently Chairman of Methodology Section.

DAVID HULETT, Chief, Economics Statistics Branch, Statistical Policy Division, Office of Management and Budget. Member of ASA, AEA. In WSS, currently Chairman of Economics Program Committee.

JACK MOSHMAN, President, Moshman Associates, Inc., Washington, D.C. Fellow of the ASA, past member of ASA Council and Secretary for Section on Physical and Engineering Statistics. In WSS, past member of executive committee.

NOAH SHERMAN, Director, Office of International Statistical Programs, National Center for Health Statistics. Member ASA, APHA, IASI, IASS.

JOSEPH STEINBERG, Assistant Commissioner for the Office of Survey Design, Bureau of Labor Statistics. Fellow of the ASA, Fellow AAAS, Senior Member ASQC, Member IMS, PAA, IASI, IASS. In WSS, past member of Nominating and Elections Committee.

ALAN YOUNG, Chief, National Income and Wealth Division, Bureau of Economic Analysis. Development of seasonal adjustment methods at Bureau of the Census, 1958-1966. Member of ASA, AEA, IARIW.

FRED FRISHMAN, Chief, Mathematical Statistics Branch, Statistics Division, Internal Revenue Service. Member ASA. In WSS, past Methodology Section Program Chairman, past Physics and Engineering Program Chairman.

FREDERICK SCHEUREN, Mathematical Statistician, Social Security Administration. Has presented several papers dealing with sample design and estimation problems. Member ASA, IMS, IARIW.

You are currently recorded as a member of the Methodology Section if your ballot includes the candidates for Program Chairman. If it does not and you want to be a member of the section, please indicate your interest to the National Office, American Statistical Association, 806 15th St., N.W., Suite 640, Washington, D. C. 20005.