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# Washington Statistical Society

CHAPTER • AMERICAN STATISTICAL ASSOCIATION



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NEWSLETTER-MARCH 1976

March 9 - Checking The Adequacy of a Simulation Model  
March 11- The National Crime Survey  
March 17- Recent Trends In Industrial Countries Export  
Prices to OPEC  
March 25- 1980 Census Machine Readable Data Plans  
March 31- Synthetic Estimation Employing Regression Techniques

## PHYSICAL SCIENCE AND ENGINEERING PROGRAM

Topic: Checking the Adequacy of a Simulation Model

Speaker: J. Stuart Hunter  
Princeton University  
Currently with National Academy of Sciences

Chairman: Badrig M. Kurkjian  
Army Material Development and Readiness Command

The adequacy of a large simulation model has been judged by testing historical vs. simulated time series responses. The problem requires the characterization of both series and the application of a statistical test designed to test their equivalency. The program was encountered in the analysis of aircraft-ground communications over a major metro-plex.

When and Where: Tuesday, March 9, 1976, 12:30 to 2:00 P.M.  
George Washington University, Room C101 Bldg. C.  
2201 G St. N.W.

METHODOLOGY AND SOCIAL AND DEMOGRAPHIC STATISTICS PROGRAM

Topic: The National Crime Survey

Speakers: Marvin Thompson, Bureau of the Census  
Charles Cowan, Bureau of the Census

Chairperson: Charles Kinderman, Law Enforcement  
Assistance Administration

Discussant: Maurice Owens, National Academy of Sciences

The National Crime Survey is a recurring sample survey which began in 1972. It is conducted by the Census Bureau under the sponsorship of the Law Enforcement Assistance Administration. The survey seeks to identify both actual and attempted personal and property crimes, regardless of whether or not they have been reported to the police.

The speakers will provide some background information about the National Crime Survey and present a synopsis of the methodological work in progress regarding collection procedures, panel biases, and estimation of sampling variances.

When and Where: Thursday, March 11, 1976, 12:30 to 2:00 P.M.  
George Washington University, Room 101, Building C,  
2201 G St. N.W.

ECONOMICS PROGRAM

Topic: Recent Trends in Industrial Countries Export Prices to OPEC

Speaker: Ed. Murphy, Bureau of Labor Statistics

Chairman: John Layng, Bureau of Labor Statistics

Indexes covering principal categories of US-OPEC Trade indicates US export prices have not risen relative to OPEC revenue per barrel of crude oil. This session discusses these measures and research on similar price trend comparison.

When and Where: Wednesday, March 17, 1976, 12:30 to 2:00 P.M.  
George S. Boutwell Auditorium, 7th Floor, IRS  
Building, 1111 Constitution Ave., N.W.

## COMPUTER TECHNOLOGY PROGRAM

Topic: 1980 Census Machine Readible Data Plans

Speaker: Marshall Turner, Bureau of the Census

Chairman: Richard Taeuber, Subcommittee on Censuses and Population  
House of Representatives

Mr. Turner will describe the present status of planning in the Census Bureau on 1980 machine readable data products. As part of the 1980 census planning effort, the Bureau wants to obtain comments and suggestions from W.S.S. members as well as others who used the 1970 Census machine-readable data or plan to use the 1980 products. Your recommendations, along with the many others now being received by the Bureau, will be helpful in planning a more useful 1980 Census Summary Tape Program. This meeting will provide a forum for your recommendations, suggestions, and comments.

When and Where: Thursday, March 25, 1976, 12:30 to 2:00 P.M.  
Martin Luther King Library, 9th & G Sts., N.W. Room A5.

## METHODOLOGY PROGRAM

Topic: Synthetic Estimation Employing Regression Techniques

Speakers: Maria Gonzalez, Office of Management and Budget  
Robert Fay, Bureau of the Census  
Eugene Ericksen, Institute for Survey Research, Temple University

Chairman: Thomas Jabine, Social Security Administration

Discussant: Hyman Kaitz, Consultant

Synthetic estimation is becoming an increasingly common method for obtaining small-area statistics. While methods vary, the estimates are basically produced by assuming that relationships developed in a survey covering a large area can be applied to smaller areas within the same population. Synthetic estimation can range in complexity: from merely applying population statistics to subsets of the sample, to more elaborate regression techniques which estimate the population statistics of the subclasses and apply those to independent estimates of the subset totals.

The speakers will discuss three recent applications of synthetic estimation: local area unemployment rates, population growth, and poverty incidence. The emphasis will be on the relative bias and mean square error of competing synthetic regression estimators in which outliers have been rejected.

When and Where: Wednesday, March 31, 1976, 10:15 a.m. to 12:45 p.m.,  
New Executive Office Building, Room 2008, Second  
Floor, 17th & H St. N.W. (To gain entrance to the  
building, show the guard a copy of this newsletter or  
a Government ID.)

## MARYLAND CHAPTER OF ASA-LUNCHEON MEETING

Topic: Statistical Methodology Research at Bureau of the Census.

Speaker: Harold Nisselson, Chief, Statistical Research Division  
Bureau of the Census

When and Where: Friday, March 19, 1976, 12:00 Noon  
Holiday Inn  
1800 Belmont Avenue  
Baltimore, Maryland

Luncheon \$6.00 per person

## ANNUAL MEETING OF VIRGINIA CHAPTER OF ASA

The annual meeting of the Virginia Chapter of ASA will be held in conjunction with the annual meeting of the Virginia Academy of Science, May 13-14, 1976 at George Mason University in Fairfax, Virginia.

Persons who are interested in presenting a paper should contact: M.R. Reynolds, Department of Statistics, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061. It is not necessary to be a member of VAS or ASA to present a paper or participate in the meeting.

In addition to the contributed papers there will be a few invited papers presented. Professor Boyd Harshbarger (VPI&SU) will present a paper on "Early History of Statistics and Probability in America" and Dr. John Gart (NIH) will also present a paper. In addition, Professor Leland Traywick (William & Mary) will give a talk on the economic outlook at a dutch treat luncheon scheduled for the second day.

There will also be a panel discussion on "Training and Career Opportunities for BS and MS Statisticians in Industry and Government." Professor Lee Traywick will be the moderator and the tentatively scheduled panel members are Professor Ray Myers (VPI&SU), Professor Val Mah (Radford), Dr. Bill Thompson (USDA), Dr. James Duffet (U.S. Postal Service) and Dr. John Bartko (NIH).

## SPECIAL YEAR IN PROBABILITY AND STATISTICS

## AT UNIVERSITY OF MARYLAND

The following is the March lecture schedule:

Professor J. N. Srivastava, Statistics Department  
Colorado State University

Monday, March 1 "Search Linear Models"  
Wednesday, March 3 "Optimal Factorial Designs"  
Friday, March 5 "Factorial Search Designs"

4:00 P.M. Room Y0412 (Math. Bldg.)

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Professor S. R. Searle, Biostatistics Department  
Cornell University

"The Essence of Linear Statistical Models"  
March 2, 4:00 P.M. "General Results"  
March 3, 3:00 P.M. "Covariance"  
March 4, 4:00 P.M. "The Multivariate Case"  
Room Y4419 (Math. Bldg.)

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Professor E. Dudewicz, Division of Statistics  
Ohio State University

March 15, Mon. "Estimation of Ordered Parameters"  
March 17, Wed. "Simulation: Random Number Generation  
and Fitting Distributions to Data"

4:00P.M. Room Y0412 (Math. Bldg.)

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Dr. David Hoel, Biometry Department Chief  
National Institute of Environmental Health Science

March 16, Tues. "Statistical Activities at Biological  
Research Laboratories"  
March 18, Thur. "Statistical Problems in the Area of  
Extrapolation and Human Risk Assessment I"  
March 23, Tues. " " " " II  
March 25, Thur. "Recent Results on Play-the-winner and Similar  
Sequential Rules for Clinical Trial Designs"

4:00P.M. Room Y4419 (Math. Bldg.)

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Professor C. L. Chiang, Biostatistics Division  
School of Public Health  
University of California, Berkeley

"Stochastic Processes and Problems in Health"  
March 22, 24, 26, 29, 31  
4:00 P.M. Room Y0412 (Math. Bldg.)

Joint Colloquium with IFDAM Fri. April 2, 3:00 P.M.  
Room Y3205

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## Continuation of March Lecture Schedule

Professor E. Parzen, Statistical Science Division  
 State University of N.Y. at Buffalo  
 will give a series of lectures. Titles to be announced.  
 His visit will extend from March 29 to April 9.

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For future schedule and other information, contact Grace Yang,  
 Department of Mathematics, (454-4884), University of Maryland,  
 College Park, Md. 20742.

STATISTICS BOOKS NEEDED

Undergraduate statistics textbooks and subject area books are needed for a course in introductory statistics which is being taught at Lorton. All of the students have had at least college algebra and some have had up to three semesters of calculus. Areas of interest include demography, business, engineering, genetics, social sciences, physics, math, etc. Books are needed presenting the basics as well as those which are challenging and more advanced. Examples of the uses of statistics would also be very useful. If you have books to donate, contact Cynthia Taeuber (day: 763-7019; after 6 p.m.: 935-5353).

## CONTINUOUS WORK HISTORY SAMPLE USER'S CONFERENCE

On May 13, 1976, the Office of Research and Statistics, Social Security Administration will hold its "Continuous Work History Sample User's Conference" at Social Security Headquarters in Woodlawn (Baltimore) Maryland. The purpose of the conference is to exchange ideas and provide insight as related to this widely used socio-economic analytic file. Inquiries regarding the conference should be directed to:

Henry F. Patt, Director  
 Division of OASDI Statistics/ORS  
 Social Security Administration  
 Baltimore, Maryland 21235  
 Telephone: (301) 594-0324

## JOB OPENING

Statistician; (2 positions) GS-11; 1530 series (\$16,255).

Send resume to: National Center for Education Statistics, 400 Maryland Avenue, S.W., Washington, D.C. 20202. Attention: Director DSIS.  
 (Location: Washington, D.C.; EOE)

One position requires planning and conducting in depth analysis of statistical data in education and administering such activities by contractors. Training/experience in advance statistical theory and techniques and survey methodology required; educational research training/experience preferred.

Other position requires translating unstructured requests for statistical information into computer queries. Experience in using automated software packages or preparing computer programs while conducting statistical analysis. Specific experience with SPSS, FORTRAN and on-line computer systems is preferable.

## JOB APPLICANT

Listed below is a brief description of the qualifications of the 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: Administrator, National Center for Education Statistics, 400 Maryland Avenue, S.W., Room 3073, Washington, D. C. 20202

Code NumberApplicant

2-2-76

(1) B.S. (Economics & Statistics), M.B.A. (Marketing Research & Statistics), Ph.D. (all course work) (Sociology); (2) Survey Design & Analysis, Program Planning, Research Administration & Direction, Social & Evaluation Research, Socio-Economic/Demographic Analysis, Social Indicator Development, Statistical Analysis; (3) 17 years experience conducting research in Criminal Justice, Education, Economics, Quality of Life/Social Indicators, Health, Housing, Aging, Drug Abuse, Manpower Planning, Technology Transfer, Federal (civilian) R&D management, Youth Training and Marketing; (4) GS-13/14/15 or equivalent; (5) Government or Non-Government with preference for Washington, D.C. area or New York City area. Will consider other locations.

Code:

- (1) Education
- (2) Fields of Competence
- (3) Years of Experience
- (4) Salary or GS Level Requirement
- (5) Type of Employment and Geographic Area