

*President:* Barbara A. Bailar  
*V.P. & Pres.-elect:* Thomas B. Jabine  
*Past President:* Marie D. Eldridge  
*Sec. Treas.:* Susan Miskura  
*Representatives-at-large:*  
Hubert Lilliefors  
Wray Smith  
Grace Yang  
*District 3 Rep. to A.S.A. Board:*  
Beatrice N. Vaccara  
*Methodology Section:*  
*Chair:* David Chapman  
*Program:* Peter A. Bounpane

# Washington Statistical Society

CHAPTER • AMERICAN STATISTICAL ASSOCIATION



*Program Committees:*  
*Agriculture:* Robert Tortora  
*Computer Tech.:* Gary Liberson  
*Economics:* Gregory Schoepfle  
*Phys. Sci. & Eng.:* Seymour Selig  
*Public Health & Biost.:* John Patterson  
*Soc. & Dem.:* Maria Gonzales  
*Interprogrammatic:* Paul Ahmed  
*Arrangements Comm.:* Robert O'Keefe  
*Employment Comm.:* Evelyn R. Kay  
*Membership Comm.:* Richard C. Tauber  
*Publicity Comm.:* Rolf Wolfsberg

NEWSLETTER - SEPTEMBER 1977

September 26 - Some Survey Design Innovations at the Bureau of the Census  
September 28 - On Developing a Forecast Model

## PHYSICAL SCIENCE AND ENGINEERING

Topic: On Developing a Forecast Model

Speaker: H. L. Gray, Frensley Professor of Mathematical Science, Department of Statistics, Southern Methodist University, Dallas, Texas

Chair: Bruce J. McDonald, Office of Naval Research

In recent years the Box-Jenkins method has become a popular technique for forecasting future behavior of a time series. Once the forecast model is known the method is very easy to employ, and adequate computer packages are available for most purposes. Unfortunately the problem of determining the appropriate forecast model has, for models of any complexity, been one of the major stumbling blocks to the user of this method.

In this paper a satisfactory solution to the problem is obtained and it is demonstrated by numerous examples how this greatly enlarges the class of data sets which can be adequately modeled by autoregressive-moving average models. This new approach is sufficiently unequivocal that most users will find it easy to implement.

When and Where: Wednesday, September 28, 1977, 12:30-2:00 p.m., IRS Auditorium, 7th floor, IRS Building. (Please use entrance at 1111 Constitution Avenue, and bring a copy of this newsletter to show the building guard.)

## METHODOLOGY

Topic: Some Survey Design Innovations at the Bureau of the Census

Speakers: Gary Shapiro, Bureau of the Census - The Survey of  
Income and Education

Grant Capps, Bureau of the Census - Voting Rights  
Survey (1976)

Irene Montie and Dennis Schwanz, Bureau of the Census -  
Coverage Improvements in the Annual Housing Survey

Discussant: To be Announced

This session is a repeat of a session from the recent A.S.A. meetings in Chicago. Items discussed on the Survey of Income and Education include allocation of sample by state, determination of the cluster size, and application of the Durbin method for selecting two units without replacement. The voting rights paper discusses the major aspects of the sample design including the development of variance functions for use in determination of optimum workload, number of sample PSU's, cluster size, and measure of size. The discussion of the Annual Housing Survey centers on the methodology employed to design and implement procedures to reduce some important components of undercoverage in the survey.

When and Where: Monday, September 26, 1977, 12:30-2:00 p.m.  
Tower Building, 1401 K. Street, N.W.,  
Basement Conference Room

## E M P L O Y M E N T   C O L U M N

Notes to job applicants and to employers with job openings:

1. Deadline for inserting notices is the 12th of the month preceding the publication month
2. Reruns of notices may be made on a space-available basis
3. Send all notices and requests to the Employment Committee Chairman  
 Evelyn R. Kay  
 National Center for Education Statistics  
 400 Maryland Avenue, SW  
 Washington, D. C. 20202      202/245-8340

## J O B   O P E N I N G S

**Senior Survey Statistician**    Capability in mathematical statistics and sample design essential. Must be able to write technical reports. Advanced degree required.

**Statistical Analyst**    Experience in analysis of survey data preferred. Advanced degree required.

For both of the above positions, send resume to Nancy Peake, Westat, Inc., 11600 Nebel Street, Rockville, Maryland 20852.

**Statistician, GS-1530-9/11  
US Navy EEO Program**    Experience in linear programming and labor market analysis for the operation of a goals model in Navy's EEO program. Must be familiar with basic statistical techniques, sources of data for computer system input, and methods of analyzing output.

Call Dave Sholtz, Office of Civilian Personnel, Navy Department, Washington, DC 20390. 202/OX 4-3159.

Continued on next page

## JOB APPLICANT

Listed below is a brief description of the qualifications of an individual seeking employment. Employers interested in interviewing this applicant should notify Mrs. Kay of their interest by CODE NUMBER. The request 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.

CODE NUMBER: 9-1-77

Education: PhD- Mathematical statistics

Fields of competence: Time series analysis, econometrics, survey sampling and health economics

Experience: 14 years including cost analysis, design and analysis of sample surveys, computer simulation modeling, and economic studies related to national health insurance

Salary level: GS-14

Type of employment: Federal government in Washington metro area

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### President's Annual Report, 1976-1977

#### Program Activities

Our fifty-first year was an active one, setting a record number of meetings held. Thirty-nine sessions were arranged, commencing with the scintillating Richard Scammon luncheon and culminating with the delightful talk by Barry Sussman of the Washington Post at the Annual Dinner Meeting. We received more than 100 reservations for the dinner and the comments received led us to believe that it was a highly successful evening. As I write this we are making plans for our reception for the Latin American Statisticians. This and the Annual Dinner are primarily social affairs and appear to be received by the membership with considerable enthusiasm. If there is an interest in more social-type get-togethers than we have had in the past such interest should be passed on to the new Board for consideration. The ASA Council is in the process of surveying all Chapters - I was fortunate to see the early returns. WSS is not only one of the largest chapters, if not the largest, we also are the most active in terms of technical sessions.

#### Organizational Activities

The "local associate" membership, approved by last year's Board was inaugurated this year. Local dues for ASA members were raised to \$3.00. The dues for local associates was established at \$5.00.

The Employment Committee closed the year with better than a 50 percent success rate in matching people with jobs. This service, which is offered free to members, listed 14 job openings and 9 applicants. An additional 12 employers called for job applicants but did not want to list their vacancies.

The Methodology Section and the Social and Demographic Committee each sponsored 7 sessions, only to be exceeded by the Physical Science and Engineering Committee, which held a meeting every month except March.

The May Meeting of the Board was again designated as an Open Meeting for members to attend and raise any comments or suggestions concerning Society activities. Members have yet to respond to the Open Meeting concept. Do we dare conclude that the Board is so responsive to the membership that further suggestions are not to be anticipated?

Awards

Continuing past practice, the Society awarded a year's membership in the ASA and WSS to outstanding graduate students nominated by local universities. The purpose of this award is to provide recognition to outstanding students and to direct their attention early in their careers to the principal professional organization in the field. This year's recipients were:

Mrs. Mary B. McDonell	Georgetown University
Mr. Saad Hassenein	Catholic University
Mr. Thomas Doyle	University of Maryland
Mr. Stacy Hill	Howard University
Ms. Elizabeth Martin Claypoole	George Mason University
Ms. Margaret Broadbent	American University
Mr. Jeremy Wu	George Washington University

No nomination was received from VPI (Reston).

Elections

The Nominating and Elections Committee (Richard C. Taeuber (Chairman), Fritz Scheuren and Charles Jones) reported the following results of the elections for 1977-78:

Vice President and President Elect	Thomas B. Jabine
Secretary-Treasurer	Susan Miskura
Representative-at-Large	Hubert Lilliefors
	Wray Smith
	Grace Yang
Methodology Section Program Chairman	Peter Bounpane

A total of 401 ballots were cast, of which 101 were for the Methodology Section.

Other

I wish to express my appreciation to the members of the Board of Directors for their diligent work, and faithful service without which we could not have operated. Barbara Bailar was a very active vice-president, Susan Miskura carried a phenomenally heavy load. Also, deserving special mention are Charles Jones, Publicity Chairman and Robert O'Keefe, Chairman of the Arrangements Committee. In addition I would like to express my appreciation to our Committee on Fellows (Barbara Bailar, Chairman, Seymour Selig, Harry Weingarten and Albert Mindlin). Finally, I thank Theodore Gearhart for auditing the Society's financial statement.

*Marie D. Eldridge*

Marie D. Eldridge  
President, 1976-77

STATEMENT OF INCOME AND EXPENDITURES FOR  
JULY 1, 1976 to JUNE 30, 1977

On hand June 30, 1976..... \$1,303.99

Receipts

1. Dues collected June 1976-March 1977 -		
thru ASA.....	\$4,286.00	
2. thru Local Associates.....	17.50	
3. Int. on Savings, Suburban Trust Co.	53.46	
4. Luncheon Meeting.....	357.50	
5. Annual Dinner.....	918.00	
		<u>5,632.46</u>
		7,026.45

Expenses

1. Direct Newsletter Costs.....	3,378.70	
a. Graham Letter Service..	2,612.25	
b. Bulk Mail Postage.....	441.31	
c. Bulk Mail Permit.....	40.00	
d. Permit Envelopes.....	179.00	
e. ASA Addressing Charge..	106.14	
2. Frame, Presidential Appreciation Certificate.....	8.32	
3. Calligraphy, Presidential Appreciation Certificate.....	8.00	
4. Graduate Student Scholarships.....	105.00	
5. Postage for Election Ballots Received.....	57.50	
6. Society Letterhead and Envelopes...	68.30	
7. Local Associate Flyers.....	25.38	
8. Misc: Stamps, Rebats for over-payment.....	59.35	
9. GWU (Luncheon Meeting).....	403.73	
10. Navy Yard Officers Club (Annual Dinner)	<u>837.99</u>	
Total Expenses.....		<u>4,952.27</u>
Difference, Operating Funds Minus Expenses.....		2,074.18

On hand June 30, 1977

Suburban Trust Company Savings Account.	1,823.54	
Suburban Trust Company Checking Account	<u>250.64</u>	
Total on hand June 30, 1977.....		2,074.18

Accounts Payable

ASQC (Funds being held in Escrow).....	25.00	
Total Accounts Payable.....		<u>25.00</u>

Net Society Reserves as of June 30, 1977 \$2,049.18

Eusan Miskura  
Secretary-Treasurer

I have examined the Secretary-Treasurer's report of the Washington Statistical Society for the period July 1, 1976 to June 30, 1977. The examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records considered necessary in the circumstances. In my opinion the report presents fairly the cash receipts and disbursements of the Washington Statistical Society for the period July 1, 1976 to June 30, 1977.

(Signed) Theodore C. Gearhart  
Chairman, Auditing Committee