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Methodology Section:
Chair: Peter A. Bounpane ✓
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Washington Statistical Society

CHAPTER • AMERICAN STATISTICAL ASSOCIATION



Program Committees:
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Computer Tech.: Ruth Mellen ✓
Economics: Gregory Schoepfle ✓
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NEWSLETTER—SEPTEMBER 1978

METHODOLOGY

Topic: The chi square test—does it work in complex samples?

Speaker: Dr. Ivan P. Fellegi, Consultant, Office of Statistical Policy and Standards, on detail to Statistical Systems Project in the President's Reorganization Project.

Chair: Dr. David Chapman, Statistical Research Division, Bureau of the Census

Discussant: Dr. Benjamin Tepping, Consultant, Washington, D. C.

The chi square statistic, when computed from a complex sample to test a hypothesis of goodness of fit or of independence in a contingency table, behaves in a way which is fundamentally different from that of many common description statistics. The distribution of the chi square statistic is shifted *and* the dispersion is affected in a more or less predictable way. Alternative tests are developed and their behavior is studied in simulation experiments.

When: Wednesday, September 20, 12:30 - 2:00 p.m.

Where: GAO Auditorium, 7th floor, GAO Building, 441 G Street, N.W., Washington, D. C.
Follow map on either side of elevators
(Metro Red Line, Judiciary Square stop, F Street exit—walk through Pension Building)

COMPUTER TECHNOLOGY

Title: SUDANN: Survey Data Analysis Software

Speaker: Dr. B. V. Shah, Chief Scientist, Research Triangle Institute, Research Triangle Park, North Carolina.

Chair: Ruth Mellen, Division of Simulation and Modeling, HEW

Most sample surveys employ multistage nested sample selections. Furthermore, longitudinal surveys involve several rounds of data collection. The resulting data base is managed efficiently by dividing it into several computer datasets. Survey Data Analysis Software (SUDANN) is a system of interrelated FORTRAN subroutines designed to perform statistical computations from several data files such as those generated from a large-scale survey. Unlike most available computer statistical packages, SUDANN takes into account the sample design for computing sampling errors.

Time: Thursday, September 28, 1978, 12:30 - 2:00 p.m., Martin Luther King Library Auditorium, 9th and G Streets, N.W.

President: Barbara A. Bailar
V.P. & Pres. elect: Thomas B. Jabine
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Beatrice N. Vaccara
Methodology Section:
Chair: David Chapman
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Agriculture: Robert Tortora
Computer Tech.: Gary Liberson
Economics: Gregory Schoopfle
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. Taeuber
Publicity Comm.: Rolf Wolfsberg

July 27, 1978

President's Annual Report, 1977-78

Program Activities

During the 52nd year of the Washington Statistical Society, 32 regular program sessions and one luncheon session were held. Several of these were jointly sponsored by two program committees and one was sponsored by the Board of Directors. Attendance varied from 15 to 200 depending on the topic and the weather.

In addition, there were three special events. First was the reception for visiting statisticians from Latin America held in August at the Fort McNair Officer's Club. Based on attendance at the Annual Meeting Dinners and the fact that many people vacation in August, a room accommodating 130 people was reserved. As it turned out, 135 people attended and more than 60 were turned away. Perhaps this is an indication that there is a desire within the membership for more social occasions or some summer events.

The second special event was a luncheon meeting sponsored by the Social and Demographic Program Committee. The guest speaker was Sar Levitan, Chairman of the National Committee on Employment and Unemployment, who discussed the mandate of the Commission. The luncheon was held at Blackie's with more than 90 people attending. Maria Gonzalez arranged for Professor Levitan's appearance, and Bob O'Keefe took responsibility for the luncheon arrangements.

The third special event was the Annual Dinner held on June 7 with James T. Bonnen, Executive Director of the President's Reorganization Project for the Federal Statistical System as the speaker. The dinner was held at the Fort McNair Officer's Club with 131 members and guests attending. Vito Natrella of the Internal Revenue Service was our sponsor at each of the functions held at Fort McNair this year.

Organizational Activities

A new activity, sponsored by the Methodology Section and George Washington University, began this year. A short course on variance estimation was offered on six consecutive Fridays in March and April. Dr. Kirk Wolter of the Bureau of the Census taught the course in a classroom provided by George Washington University. Over 140 WSS members registered for the course, from which about

50 were selected at random. The fee for the course was \$15. There seemed to be a need for such a course, as several agencies paid for a good number of employees to take the course. Since so many members were turned away, the course should probably be offered again next year. In addition, we should consider offering other short courses on different topics in statistics.

This year, the Interprogrammatic Committee under Paul Ahmed became active again. These meetings usually cut across program committee lines and were longer than the usual sessions.

The Washington Statistical Society will act as host for the 1979 Annual Meeting of the American Statistical Association to be held at the Washington Hilton Hotel on August 13-16. James O'Brien of the Bureau of the Census is chairing the Local Arrangements Committee to help in the planning and operation of this meeting.

Awards

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

American University	Nancy Berman
Catholic University	Ji-Sung Yoo
George Mason University	Louis Fogg
George Washington University	Hal Schoenberg
Howard University	Asikpo Essien-Ibok
University of Maryland	Amy Liu-Yun Hsi

No nomination was received from VPI (Reston) or from Georgetown University.

Elections

The Nominations and Elections Committee (Maric Eldridge, Chair, Leonard Fischman, and Frederick Scheuren) announced that the following officers were elected for 1978-79:

Vice President and President-Elect	George Hall
Secretary-Treasurer	Harold Nelson
Representatives-at-Large	Harry Rosenblatt
	Sue Rustmeyer
	Richard Tacuber
Methodology Section Program Chair	Lillian Madow

487 ballots were cast.

Other

My sincere appreciation for their contributions to the success of this year's program goes to the members of the Board of Directors -- especially to Susan Miskura, the Secretary-Treasurer, and Bob O'Keefe, Chair of the Arrangements Committee. The Committee on Fellows (Al Mindlin, Chair, Harry Weingarten, Jean Ridley, and Sally Ronk) was successful in obtaining sponsors for WSS members who were considered particularly worthy of nomination to be Fellows of ASA. The Employment Committee under Evelyn Kay's leadership expanded this year and through the newsletter advertisement, a job opening in Anchorage, Alaska was filled by a WSS applicant. Finally, thanks go to Ted Gearhart who audited our books.



BARBARA A. BAILAR
President, 1977-78

Attachment - See over

STATEMENT OF INCOME AND EXPENDITURE
FOR JULY 1, 1977 TO JUNE 30, 1978

On hand June 30, 1977 \$2,074.18

Receipts

1. Dues collected April 1976 - March 1977 - through ASA	\$4,875.00	
2. through Local Associates	55.00	
3. Interest on Savings, Suburban Trust Co.	56.04	
4. Buffet for Latin American Statisticians	966.00	
5. Levitan Luncheon	509.25	
6. Annual Dinner	1,267.50	
7. Variance Estimation Short Course	780.00	
		<u>8,508.79</u>
		\$10,582.97

Expenses

1. Direct Newsletter Costs	4,993.27	
a. Graham Letter Service.....	3,949.54	
b. Bulk Mail Postage.....	556.51	
c. Bulk Mail Permit.....	40.00	
d. Permit Envelopes.....	232.00	
e. ASA Addressing Charge.....	215.22	
2. Frame, Presidential Appreciation Certificate....	8.00	
3. Calligraphy, Presidential Appreciation Certificate.....	6.30	
4. Graduate Student Scholar Awards.....	78.00	
5. Postage for Election Ballots Received.....	68.18	
6. Society Letterheads and Envelopes.....	81.43	
7. Miscellaneous: Stamps, Rebates for Over- payment, Name Tags at Events.....	222.67	
8. Buffet for Latin American Statisticians.....	924.75	
9. Luncheon Meeting.....	455.90	
10. Annual Dinner.....	1,232.80	
11. Variance Estimation Short Course.....	759.80	
Total Expenses.....		<u>8,831.10</u>
Difference, Operation Funds Minus Expenses.....		1,751.87

On hand June 30, 1978

Suburban Trust Company Savings Account	1,579.58
Suburban Trust Company Checking Account.....	172.29
Total on hand June 30, 1978.....	1,751.87

Accounts Payable

ASQC (Funds being held in Escrow).....	25.00	
Total Accounts Payable.....		<u>25.00</u>
Net Society Reserves as of June 30, 1978		\$1,776.87

Ursula H. Harkness
Ursula Harkness
Secretary-Treasurer

I have examined the Secretary-Treasurer's report of the Washington Statistical Society for the period July 1, 1977 to June 30, 1978. 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, 1977 to June 30, 1978.

Theodore C. Gearhart
Theodore C. Gearhart
Chair, Auditing Committee

Report on Joint Board Meeting

The annual joint meeting of the outgoing and incoming Boards of Directors was held on July 11, 1978.

The by-laws of our Chapter provide that the annual dues shall be determined at the annual joint meeting. In order to meet increased operating costs, largely those relating to preparation and mailing of the *Newsletter*, the Boards voted unanimously to increase the annual local chapter dues for regular members of ASA from \$3.00 to \$4.00, effective for 1979. The Boards also voted to make special provisions for members who are full-time students. For those who are student members of ASA, the local chapter dues will be \$1.00. For students who wish to be local associates, the annual dues will be \$2.00.

The Boards also voted to amend the by-laws of the Society to transfer editorial responsibility for the *Newsletter* from the Secretary-Treasurer to the Publicity Chair. This confirms an arrangement used on a trial basis during the past year.

Members are urged to take an active role in suggesting topics and names of speakers for future W.S.S. meetings. The names and work telephones (in parentheses) of program chairpersons are listed below to facilitate this process.

Methodology:	Lilian Madow (523-1760)
Agriculture:	Barry Ford (447-9248)
Computer Technology:	Ruth Mellen (245-6445)
Economics:	Gregory Schoepfle (523-9292)
Physical Sciences and Engineering:	Seymour Selig (696-4314)
Public Health and Biostatistics:	Earl Pollack (496-3116)
Social and Demographic Statistics:	Wray Smith (472-3113)
Interprogrammatic:	Paul Ahmed (443-4550)

EMPLOYMENT COLUMN

Deadline for inserting notices
is the 12th of the month
preceding the publication date

Send notices and requests to:
Evelyn R. Kay
National Center for Education Statistics
400 Maryland Avenue SW
Washington, DC 20202 202/245-8340

J O B O P E N I N G S

Survey Statistician
\$13-17,000
Golden, Colorado

MS in statistics with 1 year experience in design, implementation, or analysis of sample surveys or the equivalent. Additional graduate course work or practical experience with analysis or design of large data bases, consulting, and a wide range of statistical experience are high desirable. Send resume to Jim Yacovella, Solar Energy Research Institute, Cole Boulevard, Golden, Colorado, 80401. For additional information, call Bill Belew, 303/234-7427.

Mathematical Statistician
GS-1529-9
U.S. Dept of Agriculture

Areas of competence include experimental design, regression analysis, and analysis of variance. Sampling theory and statistical quality control are desirable. Must possess a good knowledge of basic source materials, both published and unpublished, pertaining to statistical philosophy, methods, and techniques, such that the incumbent can exercise originality in selecting and adapting methods most appropriate for a given problem. Must be able to express himself/herself well in writing, to work in close cooperation with other mathematical statisticians, and to relate well with nontechnical people. Send resume to William J. Franks, Jr., Food Safety and Quality Service, U.S. Dept of Agriculture, Room 2608, South Building, Washington, DC 20250. Closing date: September 11, 1978.

N E W A S A F E L L O W S F R O M W S S

Two of the new ASA FELLOWS for 1978 are members
of the Washington Statistical Society:

Allan H. Young, Deputy Director
Bureau of Economic Analysis

Dudley E. Young, Assistant Commissioner
Bureau of Labor Statistics

!!! C O N G R A T U L A T I O N S !!!