ERRATUM
and
PROGRAM CHANGES

Session Title and Time

page 66  New Developments in Consumer Anticipation Surveys
        Thursday, 8:30 a.m.
        This session is erroneously listed in the Program at the Sheraton Park.
        It is being held in the Shoreham Hotel, Empire Room.

page 46  Local Social Urban Information Systems
        Wednesday, 10:30 a.m.
        SANFORD S. ACKERMAN, Touche, Ross, Bailey & Smart, replaces James Wiley

page 131 Association of Students of Soviet-Type Economies—Luncheon
        Saturday, 12:30 p.m.
        This session has been CANCELED.
JOINT PROGRAM

ANNUAL MEETINGS

ALLIED SOCIAL SCIENCE ASSOCIATIONS

American Economic Association
American Farm Economic Association
American Finance Association
American Marketing Association
American Statistical Association
Biometric Society, Eastern and Western North American Regions
Catholic Economic Association
Econometric Society
Industrial Relations Research Association
Institute of Mathematical Statistics

With Sessions Sponsored by:
American Real Estate and Urban Economics Association
Association for Comparative Economics
Association for Education in International Business
Association for Evolutionary Economics
Omicron Delta Epsilon

DECEMBER 26-30, 1967

Sheraton Park Hotel
Shoreham Hotel
Statler Hilton Hotel
Washington Hilton Hotel
if you have not yet received your copy of this 1968 catalogue, listing over 700 hard-to-find titles in the classics of economics and the social sciences, pick one up at booth 22 and say hello to mr. kelley

AUGUSTUS M. KELLEY, Publishers
24 East 22nd Street, New York, New York 10010
ASSOCIATIONS AND HEADQUARTERS

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Association</th>
<th>Headquarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE</td>
<td>Association for Comparative Economics</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>AEA</td>
<td>American Economic Association</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>AEIB</td>
<td>Association for Education in International Business</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>AFA</td>
<td>American Finance Association</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>AFEA</td>
<td>American Farm Economic Association</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>AFEE</td>
<td>Association for Evolutionary Economics</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>AMA</td>
<td>American Marketing Association</td>
<td>Washington Hilton</td>
</tr>
<tr>
<td>AREUEA</td>
<td>American Real Estate and Urban Economics Association</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>ASA</td>
<td>American Statistical Association</td>
<td>Shoreham</td>
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<tr>
<td>CEA</td>
<td>Catholic Economic Association</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>ENAR</td>
<td>Biometric Society, Eastern North American Region</td>
<td>Shoreham</td>
</tr>
<tr>
<td>ES</td>
<td>Econometric Society</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>IMS</td>
<td>Institute of Mathematical Statistics</td>
<td>Shoreham</td>
</tr>
<tr>
<td>IRRA</td>
<td>Industrial Relations Research Association</td>
<td>Statler Hilton</td>
</tr>
<tr>
<td>ODE</td>
<td>Omicron Delta Epsilon</td>
<td>Sheraton Park</td>
</tr>
<tr>
<td>WNAR</td>
<td>Biometric Society, Western North American Region</td>
<td>Shoreham</td>
</tr>
<tr>
<td>ASSA</td>
<td>Allied Social Science Associations</td>
<td>Shoreham</td>
</tr>
</tbody>
</table>
MULTICHANNEL TIME SERIES ANALYSIS
with digital computer programs
Enders A. Robinson, NASA. Just published. 300 pp. $11.75

INTRODUCTION TO BUSINESS STATISTICS
G. Hadley. March 1968. ca. 450 pp. $10.50 (est.)

SPECTRUM ANALYSIS AND ITS APPLICATIONS
Gwilym M. Jenkins, University of Lancaster, and Donald B. Watts, University of Wisconsin. April 1968. ca. 350 pp. $13.50 (est.)

TIME SERIES ANALYSIS PAPERS
Emanuel Parzen, Stanford University. Just published. 580 pp. Paper. $8.50

INTRODUCTION TO OPERATIONS RESEARCH

INTRODUCTION TO PROBABILITY
AND STATISTICAL DECISION THEORY
G. Hadley. 1967. 590 pp. $10.75

STATIONARY RANDOM PROCESSES
Y. A. Rozanov, Steklov Mathematical Institute, Moscow. Trans. by Amiel Feinstein. 1967. 216 pp. $10.95

MATHEMATICAL FOUNDATIONS
OF THE CALCULUS OF PROBABILITY

BASIC CONCEPTS OF PROBABILITY AND STATISTICS
J. L. Hodges, Jr., and E. L. Lehmann, University of California, Berkeley. 1964. 375 pp. $7.50

ELEMENTS OF FINITE PROBABILITY
J. L. Hodges, Jr., and E. L. Lehmann, University of California, Berkeley. 1965. 236 pp. $5.25

STOCHASTIC PROCESSES
Emanuel Parzen, Stanford University. 1962. 335 pp. $10.95

books from holden-day • san francisco
### GENERAL INFORMATION

All sessions and activities appear in the general program schedule chronologically by day and time, and alphabetically by sponsoring associations. There are separate summary listings for (1) societies’ business meetings, (2) fee and social events and (3) technical sessions. These summaries are also arranged chronologically by day and time. Where a session is sponsored jointly by two or more associations, the primary sponsor is listed first. (See list entitled “Associations and Headquarters” for initials of societies’ names used throughout this Program.) Events are scheduled at four headquarters hotels: Sheraton Park, Shoreham, Statler Hilton and Washington Hilton. For locations of the hotels, see street map on inside front cover. For locations of meeting rooms, see the floor plans of each hotel. At the end of this book is the alphabetical listing of all participants shown in the Program, with the page numbers on which their names appear.

### REGISTRATION

All persons attending the meetings are required to register. The registration fee of $3.00 entitles registrants to admission to all meetings (except fee and invitation events) sponsored by the participating associations. Registration may be completed at the registration desks located in the Shoreham, Sheraton Park, Statler Hilton, and Washington Hilton hotels. Special registration desks are provided for those who registered in advance by mail.

The registration desks will be open at the following hours:

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoreham</td>
<td>December 26</td>
<td>1 p.m.—9 p.m.</td>
<td>December 27</td>
<td>8 a.m.—8 p.m.</td>
</tr>
<tr>
<td>Sheraton Park</td>
<td>December 27</td>
<td>1 p.m.—9 p.m.</td>
<td>December 28</td>
<td>8 a.m.—8 p.m.</td>
</tr>
<tr>
<td>Statler Hilton</td>
<td>December 27</td>
<td>3 p.m.—9 p.m.</td>
<td>December 28</td>
<td>8 a.m.—5 p.m.</td>
</tr>
<tr>
<td>Washington Hilton</td>
<td>December 26</td>
<td>1 p.m.—8 p.m.</td>
<td>December 27</td>
<td>8 a.m.—4 p.m.</td>
</tr>
</tbody>
</table>
A dynamic, new publication program is under way!

The impact of current scientific progress on our society has emphasized the practical importance of education in a complex, changing world. Investment in education is essential to modern economic growth. And an understanding of today’s economy — in which he is the human capital — is equally essential for the modern student-citizen.

To familiarize the college student with the vital economic issues of our time, HEATH has recently published the STUDIES IN ECONOMICS series, edited by David E. Novack of Vassar College.

Now, another outstanding economics project is under way at HEATH. The new project, MONOGRAPHS IN ECONOMICS — a broad-ranging series of short texts designed for the college undergraduate — will consist of original monographs written by distinguished specialists in the field. Editing the new series will be Daniel R. Fusfeld, Professor of Economics at the University of Michigan and Advisory Editor in Economics for HEATH. Inquiries regarding manuscript submissions may be addressed to Professor Fusfeld either at the University of Michigan or c/o D. C. Heath and Company, College Department, 285 Columbus Avenue, Boston, Mass. 02116.

For further information on the new HEATH program in economics, visit us at Booth 35.
INFORMATION AND MESSAGE CENTERS

Information and message centers will be located at the Sheraton Park, Shoreham and Washington Hilton Hotels in the area adjoining the registration desks. The information center at the Statler Hilton Hotel will operate in conjunction with the registration desk. There will be telephone message centers for receiving both local and long distance phone calls. A direct phone line will operate between the Sheraton Park and Shoreham.

Each information center will maintain a locator file to assist registrants in locating colleagues at the convention. The message centers, operated through the courtesy of American Airlines, will accept and hold messages for registrants. General information on the convention and on Washington, D.C. may be obtained at the information centers which will be open at the following times:

<table>
<thead>
<tr>
<th>Location</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
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<tbody>
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<td>Shoreham</td>
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<td>1 p.m.—9 p.m.</td>
<td>8 a.m.—6 p.m.</td>
<td>8 a.m.—6 p.m.</td>
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<td>8 a.m.—12 noon</td>
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<td>Sheraton Park</td>
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<td>8 a.m.—9 p.m.</td>
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<td>8 a.m.—9 p.m.</td>
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<td>8 a.m.—4 p.m.</td>
<td>8 a.m.—4 p.m.</td>
<td>8 a.m.—12 noon</td>
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<td></td>
<td>8 a.m.—12 noon</td>
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<tr>
<td>Washington Hilton</td>
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<td>1 p.m.—8 p.m.</td>
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<td>8 a.m.—6 p.m.</td>
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<td>8 a.m.—6 p.m.</td>
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</table>

EMPLOYMENT REGISTER

Professional placement service will be available to members of the Allied Social Science Associations during the convention. This service will be provided by the United States Employment Service.

Placement service will be available in two locations:
(1) Exhibit Hall Number 2 in the Sheraton Park, and
(2) Clubrooms A, B, and C in the Shoreham

These centers will be open at the times listed below:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Tuesday</td>
<td>1 p.m.—7 p.m.</td>
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<tr>
<td>Wednesday</td>
<td>8 a.m.—6 p.m.</td>
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<tr>
<td>Thursday</td>
<td>8 a.m.—6 p.m.</td>
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<tr>
<td>Friday</td>
<td>8 a.m.—6 p.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>8 a.m.—1 p.m.</td>
</tr>
</tbody>
</table>

Employers and applicants should report as soon as possible to the reception desk in the placement center. Application and order forms will be supplied to those who did not file prior to the conference.
Yale University Press
New Haven and London

Mathematics and Computers in Soviet Economic Planning
edited by John P. Hardt, Marvin Hoffenberg, Norman Kaplan, and Herbert S. Levine
$7.50

Aspects of Planometrics
by Alfred Zauberman
forthcoming, spring 1968 $9.50

National Economic Policy
by James Tobin
cloth $5.00; paper $1.75

The World Money Maze
National Currencies in International Payments
by Robert Triffin
$12.50

Studies in Comparative Economics
The Economics of Labor
by E. H. Phelps Brown
cloth $6.50; paper $1.75

Foreign Trade and the National Economy
by Charles P. Kindleberger
cloth $6.50; paper $1.95

Transforming Traditional Agriculture
by Theodore W. Schultz
cloth $6.00; paper $1.75

Central Planning
by Jan Tinbergen
cloth $5.00; paper $1.45

The Economics of Soviet Planning
by Abram Bergson
cloth $8.50; paper $2.45

International Differences in Industrial Structure
by Joe S. Bain
cloth $6.00; paper $1.45

Modern Economic Growth
by Simon Kuznets
cloth $12.50; paper $2.95

Instability and Economic Growth
by Erik Lundberg
forthcoming, spring 1968
Separate areas have been set aside for employers wishing to review applications and for applicants interested in reviewing position descriptions. A message exchange provides rapid communication between employers and applicants. Employers may make arrangements with the receptionist for time and space for conducting interviews in rooms that have been set aside for this purpose.

**FEE AND INVITATION EVENTS**

Fee and invitation events are listed in the program in their appropriate chronological order and in separate summary listings. Events for which tickets are required are identified by the notation (fee event). Those which may be attended by invitation only are noted as such.

Tickets for fee events (luncheons, tours, breakfasts, and dinners) may be obtained at the special fee events desks located near the registration desks in the Shoreham and the Sheraton Park and at the registration desks in the Washington Hilton and the Statler Hilton. Tickets should be purchased as soon as possible after registration.

**SIGHTSEEING TOURS**

Special tours of Washington are available on December 28 and 29 for members and their wives.

1. **White House Tour**

   An early morning guided group-tour has been arranged for your convenience. Buses will leave the Convention hotels for the White House at 7:30 a.m. and return by 9:30 a.m. Get your ticket well in advance because the size of the group is severely limited. (You may also see the White House during the regular visitor hours from 10:00 a.m. to 12:00 noon. The entrance is opposite the U.S. Treasury building on East Executive Avenue.)

2. **General Tour of Washington**

   A four-hour guided tour will include the U.S. Capitol, the National Gallery of Art, and the Smithsonian's Museum of History and Technology. Buses will leave the Convention hotels at 10:00 a.m.

**Information and Tickets**

Tickets must be purchased at least one day in advance. They are available at all Special Fee Events Desks, located near the Information Booths at each of the four Convention hotels.
Recent Publications

Atkinson, Thomas R. and Simpson, Elizabeth T., *Trends in Corporate Bond Quality*, 106 pp. $5.00


Cohan, Avery B., *Yields on Corporate Debt Directly Placed*, 180 pp. $7.50

Ferber, Robert (ed.), *Determinants of Investment Behavior*, Report of Universities-National Bureau Conference, 611 pp. $15.00


Mintz, Ilse, *Cyclical Fluctuations in the Exports of the United States Since 1879*, 332 pp. $10.00


These books are available through Columbia University Press, 440 W. 110th St., New York, N. Y. 10027

Visit the National Bureau’s exhibit, Booth 30
PRESS SERVICES

Fully equipped press room facilities have been established in

. . . the Potomac Lounge in the Sheraton Park Hotel
. . . the Press Room in the Shoreham Hotel
. . . the Thoroughbred Room in the Washington Hilton

Copies or abstracts of papers plus a daily schedule of speakers and topics will be available to accredited correspondents.

Representatives of ASSA will be on hand to assist in setting up interviews or to provide reporters with further clarification of any points brought up in the various meetings.

Press room telephones will be manned at all times to accept messages for correspondents.

This is a press service only.

ABSTRACTS BOOKLETS

Two separate booklets containing abstracts of papers given at the sessions of the American Statistical Association, Biometric Society and Institute of Mathematical Statistics, and for the Econometric Society, have been published and are available for $1.00 each. The Abstracts Booklet of ASA, Bio and IMS may be purchased at the fee events desks in the headquarters hotels. The Booklet for the Econometric Society is at a special desk in the Sheraton Park.

EXHIBITS

Sheraton Park: Exhibits will be located in Exhibit Hall # 2 (in basement at foot of escalator)

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td>4 p.m. — 9 p.m.</td>
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<tr>
<td>Thursday</td>
<td>8 a.m. — 6 p.m.</td>
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<tr>
<td>Friday</td>
<td>8 a.m. — 6 p.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>8 a.m. — 12 noon</td>
</tr>
</tbody>
</table>

Shoreham: Exhibits will be located in the Ambassador Room

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Wednesday</td>
<td>8 a.m. — 6 p.m.</td>
</tr>
<tr>
<td>Thursday</td>
<td>8 a.m. — 6 p.m.</td>
</tr>
<tr>
<td>Friday</td>
<td>8 a.m. — 6 p.m.</td>
</tr>
<tr>
<td>Saturday</td>
<td>8 a.m. — 12 noon</td>
</tr>
</tbody>
</table>

Washington Hilton: Exhibits will be located in Exhibition Hall (on lower level)

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>6 p.m. — 10 p.m.</td>
</tr>
<tr>
<td>Wednesday</td>
<td>8 a.m. — 6 p.m.</td>
</tr>
<tr>
<td>Thursday</td>
<td>8 a.m. — 6 p.m.</td>
</tr>
<tr>
<td>Friday</td>
<td>8 a.m. — 2 p.m.</td>
</tr>
</tbody>
</table>
The Journal of Law and Economics has been published annually by the University of Chicago Law School since 1958. It has now been decided to increase the issues published each year to two, one to appear in April and the second to appear in October. The new arrangement will start with Volume XI, with the first number of the Volume appearing in April, 1968 and the second in October, 1968.

On the occasion of the Eightieth Annual Meeting of the American Economic Association in Washington, D. C., the Journal of Law and Economics is pleased to draw attention to the articles contributed to the Journal by Presidents of the American Economic Association.

MILTON FRIEDMAN


GEORGE J. STIGLER


PAUL A. SAMUELSON


JACOB VINER


The annual subscription for the Journal of Law and Economics will be $5 (for two issues each year). The price of individual numbers will be $3. The subscription rate for two years will be $9.50, for three years $13.50, for four years $17.00 and for five years $20.00. Volumes I to X will continue to be available at the price of $2.50 per volume. However, subscribers who purchase Volumes I to X as a set may obtain them for the special price of $23.50.

Send orders, enclosing check payable to the Journal of Law and Economics, to:

Publications Secretary
Journal of Law and Economics
University of Chicago Law School
1111 East 60th Street
Chicago, Illinois 60637
RESTAURANT GUIDE

Restaurants listed below were selected because of their proximity to the four convention hotels. Additional information about Washington's many restaurants can be obtained from tourist guides and the Yellow Pages. It is advisable to make advance reservations for dinner.

### Vicinity of Sheraton Park and Shoreham Hotels

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Comments</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anna Maria's</td>
<td>2655 Conn.</td>
<td>moderate, Italian</td>
<td>265-5414</td>
</tr>
<tr>
<td>Napoleon's</td>
<td>2649 Conn.</td>
<td>moderate, French</td>
<td>265-8955</td>
</tr>
<tr>
<td>Marco Polo</td>
<td>2637 Conn.</td>
<td>moderate, Italian</td>
<td>462-3868</td>
</tr>
<tr>
<td>Arbaugh's</td>
<td>2606 Conn.</td>
<td>moderate, Bar-B-Q</td>
<td>234-8980</td>
</tr>
<tr>
<td>Garvins</td>
<td>2619 Conn.</td>
<td>inexpensive, breakfast</td>
<td>234-7143</td>
</tr>
<tr>
<td>Sands</td>
<td>2605 Conn.</td>
<td>moderate, Mid-East</td>
<td>232-7755</td>
</tr>
<tr>
<td>Talleyrand</td>
<td>2301 Calvert</td>
<td>moderate</td>
<td>332-7717</td>
</tr>
</tbody>
</table>

### Vicinity of Washington Hilton Hotel

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Comments</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sirloin &amp; Saddle</td>
<td>1875 Conn.</td>
<td>moderate, beef</td>
<td>462-8111</td>
</tr>
<tr>
<td>Hot Shoppes (Cafeteria)</td>
<td>Conn. at Florida</td>
<td>breakfast 7:00-9:30 a.m.</td>
<td>656-2700</td>
</tr>
<tr>
<td>Ghengis Khan</td>
<td>1805 Conn.</td>
<td>expensive, Asian</td>
<td>342-1771</td>
</tr>
<tr>
<td>Blackbeard's</td>
<td>1801 Conn.</td>
<td>moderate</td>
<td>667-6266</td>
</tr>
<tr>
<td>Anna Maria's</td>
<td>1737 Conn.</td>
<td>moderate, Italian</td>
<td>667-1441</td>
</tr>
<tr>
<td>Golden Parrot</td>
<td>Conn. &amp; R</td>
<td>moderate, seafood, steaks</td>
<td>332-7440</td>
</tr>
<tr>
<td>Junkanoo</td>
<td>1629 Conn.</td>
<td>moderate, Polynesian</td>
<td>462-5111</td>
</tr>
<tr>
<td>Japan Inn</td>
<td>1520 Conn.</td>
<td>expensive, Japanese</td>
<td>332-5528</td>
</tr>
<tr>
<td>Embassy</td>
<td>1516 Conn.</td>
<td>inexpensive, Shiskebab</td>
<td>332-0402</td>
</tr>
</tbody>
</table>

### Vicinity of Statler-Hilton—Lower Conn. Avenue

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Comments</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old Stein</td>
<td>1339 Conn.</td>
<td>moderate, German</td>
<td>483-3362</td>
</tr>
<tr>
<td>Osaka</td>
<td>1329 Conn.</td>
<td>moderate, Japanese</td>
<td>296-3877</td>
</tr>
<tr>
<td>Tiffany's</td>
<td>1752 M St.</td>
<td>moderate, Smorgasbord</td>
<td>628-1223</td>
</tr>
<tr>
<td>Al Hambra</td>
<td>1819 M St.</td>
<td>moderate, Spanish</td>
<td>223-2125</td>
</tr>
<tr>
<td>Astor</td>
<td>1813 M St.</td>
<td>inexpensive, Greek</td>
<td>338-4994</td>
</tr>
<tr>
<td>Gusti's</td>
<td>1837 M St.</td>
<td>moderate, Italian</td>
<td>338-0895</td>
</tr>
<tr>
<td>Embers</td>
<td>1200-19th St.</td>
<td>moderate</td>
<td>296-6555</td>
</tr>
</tbody>
</table>

(Continued on Page 15)
SOME BARNES & NOBLE BOOKS OF SPECIAL INTEREST TO SOCIAL SCIENTISTS

EFFICIENCY AND EFFORT. W. Baldamus. (Tavistock)
   Cloth, $4.00; Social Science Paperback, $2.85

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### SUMMARY OF SOCIETIES’ BUSINESS MEETINGS

(See separate summary for Fee and Social Events)

Note: Unless shown with "open," these meetings are by invitation only. See general schedule for hotel and room.

#### TUESDAY, DEC. 26

<table>
<thead>
<tr>
<th>Time</th>
<th>Society</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:00 p.m.</td>
<td>ASA</td>
<td>Board of Directors—Dinner</td>
</tr>
<tr>
<td>8:30 p.m.</td>
<td>AFEE</td>
<td>Board of Directors</td>
</tr>
</tbody>
</table>

#### WEDNESDAY, DEC. 27

<table>
<thead>
<tr>
<th>Time</th>
<th>Society</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m.</td>
<td>—</td>
<td>Committee of Presidents of Statistical Societies (COPSS)—Breakfast</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>AEA</td>
<td>Executive Committee—Luncheon</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>ENAR</td>
<td>Regional Advisory Board</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>ASA</td>
<td>Journal of ASA Editorial Board—Luncheon</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>ASA</td>
<td>Section on Training (OPEN)</td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td>AFEA</td>
<td>Executive Session</td>
</tr>
<tr>
<td>2:00 p.m.</td>
<td>—</td>
<td>Biometry Training Program Directors</td>
</tr>
<tr>
<td>4:00 p.m.</td>
<td>CEA</td>
<td>Executive Council</td>
</tr>
<tr>
<td>5:30 p.m.</td>
<td>ASA</td>
<td>Biometrics Section (OPEN)</td>
</tr>
<tr>
<td>5:30 p.m.</td>
<td>—</td>
<td>Technometrics Management Committee—Dinner</td>
</tr>
<tr>
<td>6:30 p.m.</td>
<td>AEA</td>
<td>Executive Committee—Dinner</td>
</tr>
<tr>
<td>7:00 p.m.</td>
<td>IRRA</td>
<td>Executive Board—Dinner</td>
</tr>
<tr>
<td>7:30 p.m.</td>
<td>IMS</td>
<td>1967 Council</td>
</tr>
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</table>

#### THURSDAY, DEC. 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Society</th>
<th>Event</th>
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<tr>
<td>7:15 a.m.</td>
<td>ASSA</td>
<td>Allied Social Science Association Secretaries—Breakfast</td>
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<tr>
<td>7:15 a.m.</td>
<td>ASA</td>
<td>Social Statistics Section—Breakfast (Fee event) (OPEN)</td>
</tr>
<tr>
<td>7:30 a.m.</td>
<td>ASA</td>
<td>Section on Physical and Engineering Sciences Advisory Board—Breakfast</td>
</tr>
<tr>
<td>12:00 noon</td>
<td>ACE</td>
<td>Business Meeting—Luncheon</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>ASA</td>
<td>Business and Economic Statistics Section—Luncheon (Fee event) (OPEN)</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>ASA</td>
<td>Section on Physical and Engineering Sciences (OPEN)</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>IRRA</td>
<td>IRC Luncheon</td>
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<tr>
<td>12:30 p.m.</td>
<td>IRRA</td>
<td>Local Chapter Presidents—Luncheon</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>ASSA</td>
<td>Journal Editors—Luncheon</td>
</tr>
</tbody>
</table>
Thursday (Cont'd.)

2:30 p.m.  CEA  Business Meeting
5:00 p.m.  AFEE  General Business Meeting (OPEN), followed by
             Board Meeting
5:00 p.m.  IRRA  General Membership Meeting (OPEN)
5:30 p.m.  ASAA  Council—Dinner
5:30 p.m.  IMS  Business Meeting (OPEN)
6:30 p.m.  ES  Council—Dinner
7:30 p.m.  IMS  1968 Council
8:00 p.m.  AFA  Board of Directors

FRIDAY, DEC. 29

7:15 a.m.  ASAA  Chapter Presidents, Secretaries and District Representa-
           tives—Breakfast, followed by National Membership Committee
7:30 a.m.  ENAR  Regional Committee—Breakfast
7:30 a.m.  —  Technometrics Associate Editors—Breakfast
10:30 a.m. ASAA  Committee on Social Insurance Statistics and Train-
           ing

12:30 p.m. ENAR  Annual Business Meeting (OPEN)
12:30 p.m. WNAR  Annual Business Meeting (OPEN)
4:00 p.m.  —  Biometry Training Program Directors
4:45 p.m.  AEIB  Business Meeting (OPEN)
5:00 p.m.  AFA  Annual Membership Meeting (OPEN)
5:15 p.m.  AREUEA  Annual Meeting and Election of Officers (OPEN)
9:15 p.m.  AEA  Business Meeting (OPEN)

SATURDAY, DEC. 30

7:30 a.m.  —  Editors of Statistical Journals—Breakfast
12:30 p.m. ASAA  1968 Program Committee—Luncheon
### SUMMARY OF FEE AND SOCIAL EVENTS

(See separate summary for business meetings)

Note: The notation "Fee event" means that tickets must be purchased in advance. However, in many events, especially meal functions, payment is required by the attendee. Events are open, except where noted by invitation. See general schedule for hotel and room.

**TUESDAY, DEC. 26**

<table>
<thead>
<tr>
<th>Time</th>
<th>AMA</th>
<th>Event Description</th>
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<tr>
<td>5:00 p.m.</td>
<td></td>
<td>Capitol Hill (Early Bird) Reception</td>
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<td>8:00 p.m.</td>
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<td>Mixer (Cash bar)</td>
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**WEDNESDAY, DEC. 27**

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<th>Event Description</th>
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<tr>
<td>12:30 p.m.</td>
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<td>Vice President's Luncheon (Fee event)</td>
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<tr>
<td>12:30 p.m.</td>
<td>ASA</td>
<td>Luncheon—Emerging Federal Guidelines for Support of Urban Information Systems (Fee event)</td>
</tr>
<tr>
<td>1:00 p.m.</td>
<td>AREUEA</td>
<td>Field Trip to Columbia, Md. (Limited)</td>
</tr>
<tr>
<td>5:30 p.m.</td>
<td>AMA</td>
<td>President's Reception (Cash bar)</td>
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<tr>
<td>6:00 p.m.</td>
<td></td>
<td>North Carolina Institute of Statistics—Dinner</td>
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<tr>
<td>8:00 p.m.</td>
<td>IRRA</td>
<td>Reception (Cash bar)</td>
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<tr>
<td>10:00 p.m.</td>
<td>CEA</td>
<td>Informal Social Hour</td>
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**THURSDAY, DEC. 28**

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<tr>
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<tr>
<td>7:15 a.m.</td>
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<td>University of Washington Alumni—Breakfast</td>
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<tr>
<td>8:00 a.m.</td>
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<td>University of Oklahoma Economics Department—Breakfast</td>
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<tr>
<td>8:00 a.m.</td>
<td></td>
<td>University of Oregon College of Business Administration—Breakfast</td>
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<tr>
<td>8:00 a.m.</td>
<td></td>
<td>Current Economic Research in Health Field—Breakfast</td>
</tr>
<tr>
<td>12:00 noon</td>
<td></td>
<td>Luncheon—Transport and Public Utilities Group</td>
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<tr>
<td>12:00 noon</td>
<td>AMA</td>
<td>President’s Luncheon (Fee event)</td>
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<tr>
<td>12:00 noon</td>
<td></td>
<td>American Bankers Association Luncheon for Stonier Fellows (By invitation)</td>
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<tr>
<td>12:30 p.m.</td>
<td>AFEA</td>
<td>Luncheon (Fee event)</td>
</tr>
<tr>
<td>12:30 p.m.</td>
<td>CEA</td>
<td>Presidential Luncheon</td>
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<tr>
<td>3:00 p.m.</td>
<td></td>
<td>Economics Institute—Coffee Hour</td>
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<tr>
<td>5:00 p.m.</td>
<td></td>
<td>Amherst College—Cocktail Party</td>
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<tr>
<td>5:00 p.m.</td>
<td></td>
<td>University of Minnesota Department of Economics—Cocktail Party</td>
</tr>
<tr>
<td>5:15 p.m.</td>
<td></td>
<td>Yale University Economics Department—Cocktail Party</td>
</tr>
</tbody>
</table>
Thursday (Cont'd.)

5:30 p.m.  ODE  Omicron Delta Epsilon—Reception (By invitation)
6:30 p.m.  ENAR  Annual Banquet (Fee event)
7:00 p.m.  — Wisconsin Labor and Industrial Relations—Dinner (By invitation)
8:00 p.m.  — University of Illinois College of Commerce and Business Administration—Smoker
9:00 p.m.  IRRA  Social Hour
9:00 p.m.  — Columbia University Economics Department Alumni—Reception

FRIDAY, DEC. 29

7:00 a.m.  — New York State School of Industrial and Labor Relations, Cornell University—Breakfast (By invitation)
7:15 a.m.  — Northwestern University Alumni—Breakfast
7:30 a.m.  — Case Institute Economics-in-Action Alumni—Breakfast (By invitation)
7:30 a.m.  — Ohio State University Departments of Economics and Business Organization—Breakfast
8:00 a.m.  — University of Colorado Economics Alumni—Breakfast
8:00 a.m.  — Indiana University Alumni—Breakfast
8:30 a.m.  — Chairmen of Economics Departments—Breakfast (By invitation)
8:30 a.m.  — New York University—Breakfast (Fee event)
11:45 a.m.  AMA  President-Elect's Luncheon (Fee event)
12:30 p.m.  ASA, AEA, AFA  The Economic Outlook for 1968—Luncheon (Fee event)
12:30 p.m.  IRRA  Presidential Luncheon (Fee event)
5:00 p.m.  — Massachusetts Institute of Technology Economics Department—Cocktail Party
5:00 p.m.  — University of Chicago Economics Department—Cocktail Party
5:00 p.m.  — University of Pennsylvania Economic Department—Cocktail Party
5:30 p.m.  AEIB  Reception (By invitation)
6:30 p.m.  AREUEA  Membership Cocktail Party (By invitation)
10:00 p.m.  ASA, ENAR-WNAR, IMS  Informal Party (Fee event)

SATURDAY, DEC. 30

12:30 p.m.  AEA  Luncheon
12:30 p.m.  — Association of Students of Soviet-Type Economies—Luncheon
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>8:30 a.m.</td>
<td>ASA</td>
<td>How Good Is Input-Output?</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>ASA</td>
<td>Contributed Papers—Physical &amp; Engineering Sciences I</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>ASA</td>
<td>Population Projections for Small Areas</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>ASA</td>
<td>New Approaches to the Teaching of Statistics</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>ENAR-WNAR, ASA</td>
<td>Multivariate Theory</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>IMS</td>
<td>Potential Theory—Random Walk, Renewal Theory</td>
</tr>
<tr>
<td>8:30 a.m.</td>
<td>IMS</td>
<td>Contributed Papers I</td>
</tr>
<tr>
<td>9:00 a.m.</td>
<td>AMA</td>
<td>Changing Marketing Systems: Consumer, Corporate and Government Interfaces</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>AFEE</td>
<td>Business, the Revolution and the Constitution of the United States</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>AMA</td>
<td>Government-Consumer Interest: Concepts, Conflicts and Prospects</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>AMA</td>
<td>The Multi-National Business: Marketing Strategy and Organization</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>AMA</td>
<td>The Role of the Government in Marketing Activity: Caveat Emptor vs. Caveat Venditor</td>
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<td>AMA</td>
<td>Technological Impact of Government Expenditures</td>
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<td>Consumer Research: Current Perspectives and Future Horizons</td>
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<td>Systems Analysis: Concepts and Applications</td>
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<td>American Unionism from Protest to Going Concern</td>
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<td>New Haven Pretest of the 1970 Census</td>
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### Wednesday (Cont'd.)

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<td>Comparative Marketing Systems: The Government's Role</td>
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<td>Marketing Education: Changing Discipline Dimensions</td>
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<td>Business Research and Marketing Impact</td>
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<td>Presentation of Significant Doctoral Research</td>
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<td>3:30 p.m.</td>
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<td>Repercussions of Welfare Payments on Labor Force Behavior</td>
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<td>4:00 p.m.</td>
<td>ASA, ENAR-WNAR, IMS</td>
<td>General Methodology Lecture</td>
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<td>8:00 p.m.</td>
<td>CEA</td>
<td>Corporate Social Responsibilities</td>
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<td>Special Address Invited by the President</td>
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### THURSDAY, DEC. 28

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<td>AEA, AFEA</td>
<td>Aggregate Demand Shifts, Labor Transfers and Income Distribution</td>
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<td>Transport for Economic and Social Development</td>
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<td>AFA</td>
<td>Metropolitan Areas and Fiscal Federalism</td>
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<td>New Developments in Consumer Anticipation Surveys</td>
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<td>Aspects of the 1966 and 1971 Census Programmes in Canada</td>
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<td>Many Courses in Statistics vs. a Few Courses in Depth</td>
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<td>Econometric Studies of Production Functions</td>
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<td>Manpower and Its Education and Training</td>
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<td>9:15 a.m.</td>
<td>AMA</td>
<td>Ethical Dimensions of Marketing Behavior</td>
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Thursday (Cont'd.)

9:15 a.m. AMA  Technological Development and Corporate Action
9:15 a.m. AMA  Government's Role in Stimulating New Markets
9:15 a.m. AMA  International Business and Marketing Education
9:15 a.m. AMA  Government Research and Marketing Impact
9:15 a.m. AMA  Government-Corporate Interests: Industry Perspectives
9:30 a.m. AFEE  The Relevance of Education to Development and Growth
10:30 a.m. AEA  Round Table on the Economics of Environmental Management
10:30 a.m. AEA  Round Table on the Economics of Higher Education
10:30 a.m. AFA  Measurement of Performance of Security Portfolios
10:30 a.m. ASA  Models in Advertising and Marketing
10:30 a.m. ASA  Developments in the Use of Tax Return Data—Statistics of Income
10:30 a.m. ASA, IMS  Sequential Methods
10:30 a.m. ASA  Methodology of Sample Surveys in Social Statistics
10:30 a.m. ASA  Contributed Papers—General
10:30 a.m. ACE  Is Economic Theory Culture-Bound?
10:30 a.m. CEA  Economic Implications of United States Manpower Programs
10:30 a.m. ENAR-WNAR, ASA  Models of Breast Cancer
10:30 a.m. ES  Estimation Procedures
10:30 a.m. ES  Planning Models
10:30 a.m. ES  Employment and the Labor Market
10:30 a.m. ES  Symposium Session on the Pure Theory of Demand
10:30 a.m. IRRA, AEA  Internal and External Labor Markets
10:30 a.m. IRRA  Discrimination and Other Obstacles to Effective Manpower Utilization
10:30 a.m. IMS  Wald Lecture II
11:00 a.m. AFEE  Myth and Reality in International Capital Movements
11:30 a.m. IMS  Contributed Papers V
2:00 p.m. AREUEA  Models for Real Estate Decision-Making
2:00 p.m. ASA, AEA  Measurement for Public Policy
2:00 p.m. ASA  Contributed Papers—Business & Economic Statistics I
2:00 p.m. ASA, IMS  Non Parametric Methods
Thursday (Cont’d.)

2:00 p.m. ASA  Statistical Areas
2:00 p.m. ASA  Training in Sampling Methods
2:00 p.m. AFEE  Institutional Bases of Economic Stagnation in Chile
2:00 p.m. ENAR-WNAR, ASA  Genetics
2:00 p.m. ES  Selected Empirical Findings
2:00 p.m. ES  Studies in the Pure Theory of Consumer Preferences and Behavior
2:00 p.m. ES  Descriptive Growth Models
2:00 p.m. IMS  Probability, Weak Convergence
2:00 p.m. IMS  Contributed Papers VI
2:15 p.m. AMA  The International Consumer: Cross Cultural Perspectives
2:15 p.m. AMA  Societal Norms and Business Responsibility
2:15 p.m. AMA  Technological Developments and Emerging Market Segments
2:15 p.m. AMA  Public Policy and Marketing Responsibility: The Educator’s Challenge
2:15 p.m. AMA  Marketing Education and Research Activities: Dissertation Research Competition
2:15 p.m. AMA  Gaming: Heuristics and Simulation Applications to Systems Analysis
2:30 p.m. AEA  International Liquidity
2:30 p.m. AEA  Behavioral and Ecological Economics
2:30 p.m. AEA  Economics of Arms Control and Disarmament
2:30 p.m. AFA  Progress toward a Uniform Consumer Credit Code
2:30 p.m. IRRA  The Peripheral Labor Force
2:30 p.m. IRRA  Government’s Manpower Role
3:30 p.m. AFEE  The Determinants of Aggregate Consumption and the Evolution of Value
4:00 p.m. ASA, ENAR-WNAR, IMS  R. A. Fisher Memorial Lecture
4:30 p.m. ES  Presidential Address
8:00 p.m. AEA  Richard T. Ely Lecture
8:00 p.m. — University of Illinois Institute of Labor and Industrial Relations—Meeting

FRIDAY, DEC. 29

8:30 a.m. AEA  Experiments in Teaching Economics
8:30 a.m. AEA  The Entrepreneur
8:30 a.m. AFEA, ES  Recent Econometric Analyses in Agriculture
Friday (Cont'd.)

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<tr>
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<td>AFA</td>
<td>Pension Funds, Issues and Alternatives</td>
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<td>Current Research in Real Estate and Land Economics</td>
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<td>Defense Statistics: Quality and Implications</td>
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<td>Family Statistics</td>
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<td>Computer Science and Statistics: A View of the Bridge</td>
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<td>ENAR-WNAR, ASA</td>
<td>Biomathematics I</td>
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<td>ES</td>
<td>Monetary Studies</td>
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<td>ES</td>
<td>Invited Papers by Distinguished Foreign Scholars</td>
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<td>Manpower Planning—Private and Public</td>
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<td>The Outlook for the Money and Capital Markets</td>
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<td>Macro-Micro Linkages in the Rural Economy</td>
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<td>Technological and Economic Implications of 3 Percent Growth</td>
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<td>International Experience: U. S. Contributions and Contributions to the U. S.</td>
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<td>How Companies Make International Decisions</td>
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<td>Federal Statistics—Major Developments</td>
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<td>International Business: A Conceptual Framework</td>
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<td>Statistics in the Drug Industry II: Ethical Considerations in Clinical Trials</td>
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<td>The Relationship of AREUEA to Professional Real Estate Associations</td>
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**SATURDAY, DEC. 30**

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<td>Economics and Noneconomics of Poverty</td>
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<td>Problems in Selection of Security Portfolios</td>
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<td>A Fresh Look at Investment</td>
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<td>Mathematics Requirements for Statistical Training</td>
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<td>Stochastic Models</td>
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<tr>
<td>8:30 a.m.</td>
<td>IMS</td>
<td>Contributed Papers XII</td>
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<tr>
<td>9:00 a.m.</td>
<td>ES</td>
<td>Symposium Session on Estimation Procedures</td>
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<tr>
<td>10:30 a.m.</td>
<td>AEA, ACE</td>
<td>Economic Reform in Eastern Europe and the U. S. S. R.</td>
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<tr>
<td>10:30 a.m.</td>
<td>AEA</td>
<td>Round Table on the Selection of Training of Foreign Graduate Students</td>
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<tr>
<td>10:30 a.m.</td>
<td>ASA</td>
<td>The Statistical Basis for Planning Corporate Strategy</td>
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### SUMMARY OF TECHNICAL SESSIONS

**Saturday (Cont'd.)**

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<tr>
<td>10:30 a.m.</td>
<td>ASA Contributed Papers—Business &amp; Economics Statistics III</td>
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<tr>
<td>10:30 a.m.</td>
<td>ASA Evaluation of Family Planning Services in the U. S.</td>
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<tr>
<td>10:30 a.m.</td>
<td>ES Macro-Economic Models</td>
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<td>10:30 a.m.</td>
<td>ES On Empirical Studies of Consumer Behavior: A Colloquium</td>
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<tr>
<td>10:30 a.m.</td>
<td>ES Econometric Studies of Investment and Production</td>
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<td>10:30 a.m.</td>
<td>IMS Rietz Lecture</td>
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<td>2:00 p.m.</td>
<td>ASA New Methods of Price Measurement</td>
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<td>2:00 p.m.</td>
<td>ASA Contributed Papers—Business &amp; Economics Statistics IV</td>
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<tr>
<td>2:00 p.m.</td>
<td>ASA Trends in Negro-White Differentials</td>
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<td>2:00 p.m.</td>
<td>ENAR-WNAR, ASA Teaching of Biostatistics to Medical Students and Physicians</td>
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<tr>
<td>2:00 p.m.</td>
<td>ENAR-WNAR, ASA Contributed Papers—Biometrics IV</td>
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<tr>
<td>2:00 p.m.</td>
<td>ES Studies in Capital Markets</td>
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<td>2:00 p.m.</td>
<td>ES Agriculture in Developing Countries</td>
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<td>2:00 p.m.</td>
<td>IMS, ASA Robust Estimation of Location and Regression Parameters</td>
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<td>2:00 p.m.</td>
<td>IMS Contributed Papers XIII</td>
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<td>2:30 p.m.</td>
<td>AEA Problems in Pricing and Growth</td>
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<tr>
<td>2:30 p.m.</td>
<td>AEA Nonmarket Decision Making</td>
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The Economics of Underdevelopment
Edited by A. N. AGARWALA and S. P. SINGH.

The Industrial Revolution
1760-1830
By T. S. ASHTON.

Income, Saving, and the Theory of Consumer Behavior
By JAMES S. DUESENBERRY.

History of Economic Doctrines
AN INTRODUCTION TO ECONOMIC THEORY
By EDUARD HEIMANN.

Industrialism and Industrial Man
By CLARK KERR, JOHN T. DUNLOP, FREDERICK H. HARBISON and CHARLES A. MYERS.

Problems of Capital Formation in Underdeveloped Countries and Patterns of Trade and Development
By RAGNAR NURKSE.

The Managed Economy
By MICHAEL D. REAGAN.

A History of Economic Change in England 1880-1939
By R. S. SAYERS.

The Strategy of Conflict
By THOMAS C. SCHELLING.

Ten Great Economists: From Marx to Keynes
By JOSEPH A. SCHUMPETER.

Economic Doctrine and Method
AN HISTORICAL SKETCH
By JOSEPH A. SCHUMPETER.

Medieval Technology and Social Change
By LYNN WHITE, JR.
The Revolution in Egypt's Economic System

**FROM PRIVATE ENTERPRISE TO SOCIALISM, 1952-1965**

By PATRICK O'BRIEN, University of London. Focusing on the changing relationship between economy and government, this study examines the changes which took place during the years when Egypt was transformed from a private enterprise system to a socialist economy. The author evaluates changes in the political, legal, and institutional framework as well as the economic and social problems which faced Egypt's government on its accession to power. "A new and important study." —The American Historical Review. Published for the Royal Institute of International Affairs.

$8.80

Location of Industry and International Competitiveness

By SEEV HIRSCH, Tel-Aviv University. This book outlines a system of analysis, the product cycle view of international competitiveness, to enable economists to predict industrial growth. Mr. Hirsch studies the predictable phases of typical industrial development and notes the systematic changes that occur as products progress from their introductory stage to maturity and decline. He then shows how this analysis may be applied to countries with varying levels of economic development. 4 figures. $5.60

The Economic Development of Malaya

By LIM CHONG YAH, University of Malaya. Based on historical statistical facts, this book is a comprehensive study of economics in Malaya. The period covered extends some ninety years, from about 1874, the date of the Pangkor Engagement, to 1963, the date of the Malaysian Agreement, the period of Malaya's most rapid development and change. A thorough analysis is made of the crops and commodities produced, and tin and rubber, the staple products of Malaya, receive particularly detailed treatment. Diagrams, maps. $12.00

Oil in the Middle East

**ITS DISCOVERY AND DEVELOPMENT; THIRD EDITION**

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Keynesian Economics and the Economics of Keynes

A STUDY IN MONETARY THEORY

By AXEL LEIJONHUFVUD, University of California, Los Angeles

June 1968

prob. 360 pp.

prob. $7.00

Banking in the Early Stages of Industrialization

A STUDY IN COMPARATIVE ECONOMIC HISTORY

By RONDO CAMERON, University of Wisconsin, with the collaboration of OLGA CRISP, HUGH T. PATRICK, and RICHARD TILLY

1967

368 pp.

tables, charts

$6.50

Essays in Economics

THEORIES AND THEORIZING

By WASSILY LEONTIEF, Harvard University

1966

272 pp.

cloth $6.00 paper $2.50

Modern Capitalism

THE CHANGING BALANCE OF PUBLIC AND PRIVATE POWER

By ANDREW SHONFIELD, Royal Institute of International Affairs

1965

472 pp.

cloth $10.50 paper $4.50

Competition Policy in the European Community

By D. L. McLACHLAN, Economic Affairs Officer, UN Conference on Trade and Development, and D. SWANN, Queen's University, Belfast

Spring 1968

480 pp.

$9.75
Leading Issues in Development Economics

SELECTED MATERIALS AND COMMENTARY

By GERALD M. MEIER, Stanford University
1964
568 pp. $7.50

The World Economy at the Crossroads

A SURVEY OF CURRENT PROBLEMS OF MONEY, TRADE, AND ECONOMIC DEVELOPMENT

By HARRY G. JOHNSON, University of Chicago
1965
112 pp. cloth $3.50 paper $.95

Three Worlds of Development

THE THEORY AND PRACTICE OF INTERNATIONAL STRATIFICATION

By IRVING LOUIS HOROWITZ, Washington University
1966
528 pp. cloth $8.50 paper $2.95

Readings in Economics and Politics

SECOND EDITION

Edited by H. C. HARLAN, Chicago City Junior College
1966
800 pp. paper $2.75

The Oxford Regional Economic Atlas of the United States and Canada

Prepared by The Cartographic Department of The Clarendon Press. Advisory Editors, JOHN D. CHAPMAN, University of British Columbia, and JOHN C. SHERMAN, University of Washington
1967
164 pp. (128 pp. maps in color) cloth $17.50 paper $5.95

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By URSULA K. HICKS, Oxford University
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Earliest Times to 1900
Volume II: Technology in the Twentieth Century
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ROLL W. PURSELL, JR., University of California, Santa Barbara
Volume II: 1967 800 pp. 200 illus. text edition $8.50
trade edition, boxed set, $27.50

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By JOSEPH A. SCHUMPETER
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AN OUTLINE OF MONETARY ECONOMICS
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The Taxation of Personal Wealth

by Alan A. Tait. One of the least popular forms of taxation is viewed from many aspects in this detailed and timely inquiry into existing criticisms of and justifications for the inequality of the distribution of personal wealth. Mr. Tait examines the concept of wealth and its current distribution in the United States and United Kingdom, and critically evaluates different forms of wealth taxation, both tried and suggested. Major factors (including taxation) affecting the future distribution of wealth are explored in depth, the political implementation of tax proposals discussed, and provocative ideas for improving equity throughout the system argued. Just published. 16 charts, 16 tables. 238 pages. $7.50.
### COMMITTEE OF PRESIDENTS OF STATISTICAL SOCIETIES (COPSS)

**BREAKFAST MEETING** (By Invitation)

**Chairman:** WALTER T. FEDERER, Cornell Univ., COPSS Secretary

**HOW GOOD IS INPUT-OUTPUT?**

**Chairman:** DOUGLAS GREENWALD, McGraw-Hill Inc.

**Input-Output and the Economy,** CLOPPER ALMON, Univ. of Maryland

**Input-Output and the Company,** FRANK MURPHY, General Electric Co.

**Input-Output as a Marketing Tool,** ROBERT S. SCHULTZ, Union Camp Corp.

**Discussion:**
- MARTIN MARIMONT, U. S. Dept. of Commerce
- WILLIAM H. MIERNYK, Univ. of West Virginia
- ROBERT K. ARNOLD, Stanford Research Inst.

### CONTRIBUTED PAPERS—PHYSICAL & ENGINEERING SCIENCES—I

**Chairman:** SIDNEY ADDELMAN, State Univ. of New York, Buffalo


**Chain-Pooling ANOVA for Factorial Two-Level Replication-Free Experiments,** A. G. HOLMS, NASA, Cleveland and J. N. BERRET-TONI, Case Western Reserve Univ.

**Weighing Designs and Designs of Resolution III and IV for Two-Level Factors,** BARRY H. MARGOLIN, Harvard Univ.


**Variance Estimates in Balanced and Unbalanced Nested Designs,** FRED C. LEONE, Univ. of Iowa, LLOYD S. NELSON, General Electric Co. and NORMAN L. JOHNSON, Univ. of North Carolina

### POPULATION PROJECTIONS FOR SMALL AREAS

**Chairman:** MEYER ZITTER, U. S. Bur. of the Census


**Population Projections for Counties and Standard Metropolitan Statistical Areas in California,** WALTER P. HOLLMANN, California State Dept. of Finance

**Regional Projections of the Office of Business Economics,** ROBERT E. GRAHAM, JR., Office of Business Economics

**Discussion:**
- HARRY M. ROSENBERG, Battelle Memorial Inst.
- RICHARD IRWIN, U. S. Bur. of the Census

### NEW APPROACHES TO THE TEACHING OF STATISTICS

**Chairman:** PAUL C. CLIFFORD, Montclair State Coll.

**A Non-parametric Approach to Elementary Statistics,** GOTTFRIED E. NOETHER, Boston Univ.

**Teaching Statistics on Talk Back TV,** BENJAMIN BUCHBINDER, General Electric Co.

**Instructional Aids for the Teaching of Statistical Methods,** N. SCOTT URQUHART, Cornell Univ.

**Demonstration Course in Survey Methods,** NORMAN STRAND and ROY HICKMAN, Iowa State Univ.
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| 8:30 a.m. | SHOREHAM Palladian Rm. ENAR-WNAR ASA | **MULTIVARIATE THEORY**  
Chairman: P. K. SEN, Univ. of North Carolina  
Multivariate Methods Applied to Non-Linear Models, D. ALLEN, Univ. of Kentucky  
A Multivariate Extension of Friedman’s $\chi^2$ test, T. M. GERIG, Univ. of North Carolina  
Comparisons with All Matched Pairs, D. QUADE, Univ. of North Carolina  
On the Analysis of Repeated Measurements Designs, DONALD F. MORRISON, Univ. of Pennsylvania |
| 8:30 a.m. | SHOREHAM Forum IMS | **POTENTIAL THEORY—RANDOM WALK, RENEWAL THEORY**  
Chairman: RICHARD GRIEGO, Univ. of New Mexico  
Non-linear Renewal Theory, PETER NEY, Univ. of Wisconsin  
| 8:30 a.m. | SHOREHAM Heritage Rm. IMS | **CONTRIBUTED PAPERS—I**  
Chairman: J. CAMERON, National Bur. of Standards  
(8:30) Multidimensional Partially Balanced Designs for Models Containing Interaction Terms (Preliminary Report), D. ANDERSON, Univ. of Wyoming  
(8:41) Equivalent Strongly Regular Graphs and Partially Balanced Association Schemes, R. BOSE, Univ. of North Carolina  
(8:52) On Combinatorial Composition and Extension Methods in the Construction of Designs, I. CHAKRAVARTI, Univ. of North Carolina  
(9:03) Analysis of One-way Classification Variance Components Model When the Design is Unbalanced, T. JAYACHANDRAN, Naval Postgraduate Sch.  
(9:14) Estimators of Components of Variance with Small Mean Errors, J. KLOTZ and R. MILTON, Univ. of Wisconsin  
(9:25) Balanced Optimal $2^m$ Fractional Factorial Designs of Resolution V, $m \leq 6$, J. SRIVASTAVA, Colorado State Univ. and D. CHOPRA, Wichita State Univ.  
(9:36) Partially Balanced Arrays with $\mu_2 = 2$ and 3, J. SRIVASTAVA, Colorado State Univ. and D. CHOPRA, Wichita State Univ.  
(9:47) $O(c)$—Bayes Procedures in Sequential Design of Experiments, G. LORDE, Northwestern Univ.  
(9:58) Some Results Concerning Stopping Rules (Preliminary Report), L. GLESER, Johns Hopkins Univ. and S. ZACKS, Kansas State Univ.  
| 9:00 a.m. | WASH.-HILTON Ballroom—East AMA | **CHANGING MARKETING SYSTEMS: CONSUMER, CORPORATE AND GOVERNMENT INTERFACES** (Opening Plenary Session)  
Chairman: WILLIAM LAZER, Michigan State Univ.  
Changing Marketing Systems, ROBERT J. HOLLOWAY, Univ. of Minnesota |
9:30 a.m.  
SHERATON PARK  
Dover Rm.  
AFEE

BUSINESS, THE REVOLUTION AND THE CONSTITUTION OF THE UNITED STATES  
Chairman: JOSEPH DORFMAN, Columbia Univ.  
Speaker: BEN B. SELIGMAN, Univ. of Massachusetts  
Commentators:  
CARTER GOODRICH, Univ. of Pittsburgh  
DUDLEY DILLARD, Univ. of Maryland

10:00 a.m.  
WASH.-HILTON  
Jefferson—West  
AMA

GOVERNMENT-CONSUMER INTEREST: CONCEPTS, CONFLICTS AND PROSPECTS  
Chairman: C. GROVE SMITH, U. S. Dept. of Commerce  
From the Government Point of View, LESLIE V. DIX, President’s Committee on Consumer Interests  
From the Business Point of View, GEORGE W. KOCH, Grocery Mfrs. of America  
From the University Point of View, RICHARD H. HOLTON, Univ. of California, Berkeley

10:00 a.m.  
WASH.-HILTON  
Jefferson—East  
AMA

THE MULTI-NATIONAL BUSINESS: MARKETING STRATEGY AND ORGANIZATION  
Chairman: CHARLES STEWART, Columbia Univ.  
Strategic Opportunities in Multi-National Marketing, VERN TERPSTRA, Univ. of Michigan  
Organizational Problems in Multi-National Marketing, GEORGE B. SIMMONS, Univ. of Massachusetts  
IBM World Trade Corporation: A Case Study, HERBERT C. MENDELL, IBM World Trade Corp.

10:00 a.m.  
WASH.-HILTON  
Crystal—West & East  
AMA

THE ROLE OF THE GOVERNMENT IN MARKETING ACTIVITY: CAVEAT EMPTOR VS. CAVEAT VENDITOR (Panel Discussion)  
Chairman: ROBERT J. LAVIDGE, Elrick and Lavidge  
Speakers:  
CHARLES M. HEWITT, Indiana Univ.  
BETTY FURNESS, Special Assistant to The President for Consumer Affairs  
EWALD T. GREther, Univ. of California, Berkeley  
THEODORE O. CRON, Food and Drug Admin.

10:00 a.m.  
WASH.-HILTON  
Lincoln—West  
AMA

TECHNOLOGICAL IMPACT OF GOVERNMENT EXPENDITURES  
Chairman: HENRY DAVID, National Academy of Sciences, National Research Council  
The Relation of Government Policies to Technological Change, RONALD P. BLACK and CHARLES W. FOREMAN, Analytic Services  
The Impact of Government Technology on the Commercial Marketplace, GEORGE J. HOWICK, NASA  

10:00 a.m.  
WASH.-HILTON  
Lincoln—East  
AMA

CONSUMER RESEARCH: CURRENT PERSPECTIVES AND FUTURE HORIZONS  
Chairman: FRANK M. BASS, Purdue Univ.  
New Empirical Directions in Market Segmentation: Latent Struc-
TURE MODELS, JOHN G. MYERS and FRANCESCO M. NICOSIA, Univ. of California, Berkeley

Factor Analysis of Consumer Usage Rates and Media Choices, SEYMOUR BANKS, Leo Burnett Co. and WILLIAM D. WELLS, Univ. of Chicago

Consumer Research: Status and Prospects, W. THOMAS TUCKER, Univ. of Texas

10:00 a.m.
WASH.-HILTON
Military Rm.
AMA

SYSTEMS ANALYSIS: CONCEPTS AND APPLICATIONS
Chairman: DANIEL M. SLATE, Univ. of New Mexico
Speakers:
ARNOLD E. AMSTUTZ, Massachusetts Inst. of Technology
GWYN COLLINS, Arthur D. Little, Inc.
E. K. RABITSCH, Commercial Research Corp.

10:30 a.m.
SHOREHAM
Empire Rm.
ASA

APPRaising THE NATION'S ECONOMIC POLICY, 1966-67
Chairman: WILLIAM F. BUTLER, Chase Manhattan Bank
Panel:
PAUL McCracken, Univ. of Michigan
JAMES TOBIN, Yale Univ.
HERBERT STEIN, Brookings Inst.

10:30 a.m.
SHOREHAM
Tudor Rm.
ASA

DESIGN OF SIMULATION EXPERIMENTS
Chairman: JAMES A. ZWERNEMAN, Research Triangle Inst.
The Statistics of Simulation, PHILIP J. KIVIAT, RAND Corp.
Basic Features of the Activity Simulation Language, RICHARD POLIS, Mitre Corp.

10:30 a.m.
SHOREHAM
Board Rm.
ASA

CONTRIBUTED PAPERS—SOCIAL STATISTICS—I
Chairman: JOHN D. DURAND, Univ. of Pennsylvania
Multivariate Classification Analysis Without Assumption of Interval Measurements, Linearity, or Additivity: A Comparison of Techniques, JAMES M. CARMAN, Univ. of California, Berkeley
Classification Errors and Measures of Association in Contingency Tables, F. G. GIESBRECHT, Research Triangle Inst.
Occupational Classification: Current Issues and an Interim Solution, JEROME B. GORDON, Columbia Univ.
Definition and Measurement of the Nonfarm Self-Employed, IRVING LEVESON, National Bur. of Economic Research, Inc.
Poverty in the Rural Population of the United States, GORDON F. SUTTON, Office of Economic Opportunity

10:30 a.m.
SHOREHAM
Diplomat Rm.
ASA

LOCAL SOCIAL URBAN INFORMATION SYSTEMS
Chairman: RODERICK O. SYMMES, U. S. Dept. of Housing and Urban Development
The Detroit Social Information System, JAMES WILEY, Detroit Community Renewal Program
Matching Persons without a Numerical Identifier, JACK MELNICK, IBM Corp.

Urban Information Systems and Personal Privacy, ALBERT MINDLIN, Govt. of the District of Columbia

(Conference continues at 12:30 P.M. Luncheon)

10:30 a.m.
SHOREHAM Forum
ENAR-WNAR ASA

APPLIED MULTIVARIATE ANALYSIS
Chairman: JAMES E. GRIZZLE, Univ. of North Carolina

A Multivariate Analysis of the Risk of Coronary Heart Disease in Framingham, J. TRUETT, JEROME CORNFIELD and W. KANNEL, National Heart Inst.

Multivariate Analysis of Variance Applied to Hypertension, G. P. H. STYAN, Univ. of Minnesota

Numerical Taxonomy: An Approach and Its Implications, ANNA M. LEE, National Cancer Inst.

Discussion:
REUBEN GABRIEL, Hebrew Univ.

10:30 a.m.
SHOREHAM Palladian Rm.
IMS

WALD LECTURE—I
Chairman: JERZY NEYMAN, Univ. of California, Berkeley

Recent Results in Parametric Large Sample Theory I: Likelihood Processes, WASSILY Hoeffding, Univ. of North Carolina

11:00 a.m.
SHERATON PARK Dover Rm.
AFEE

AMERICAN UNIONISM FROM PROTEST TO GOING CONCERN
Chairman: SAR A. LEVITAN, George Washington Univ.

Speaker: JACK BARBASH, Univ. of Wisconsin

Commentators:
LOUIS SALKEVER, State Univ. of New York
HERBERT J. LAHNE, U. S. Dept. of Labor

11:30 a.m.
SHOREHAM Palladian Rm.
IMS

CONTRIBUTED PAPERS—II
Chairman: G. WATSON, Johns Hopkins Univ.


(11:46) Quiz Show Problems, J. KADANE, Yale Univ.

(11:57) Sum of Lifetimes in Age Dependent Branching Processes (Preliminary Report), H. WEINER, Univ. of California, Davis


(12:19) On a Class of Non-Parametric Tests for Regression Parameters, M. SRIVASTAVA, Univ. of Toronto

12:30 p.m.
SHERATON PARK Hamilton Rm.
AEA

EXECUTIVE COMMITTEE MEETING—LUNCHEON (By invitation)

12:30 p.m.
WASH.-HILTON International Ballroom—Center
AMA

VICE PRESIDENT'S LUNCHEON (Fee event)
Chairman: PAUL E. GREEN, Univ. of Pennsylvania, Vice President, AMA, Marketing Education

Speaker: WALTER JEFFREY, E. F. MacDonald Co.
12:30 p.m. JOURNAL OF ASA EDITORIAL BOARD—LUNCHEON MEETING (By Invitation)

12:30 p.m. REGIONAL ADVISORY BOARD—MEETING (By invitation)
Chairman: MARVIN A. KASTENBAUM, Oak Ridge National Lab., Regional Advisory Board Chairman

12:30 p.m. SECTION ON TRAINING—MEETING (All Section Members Invited)
Chairman: WILLIAM WASSERMAN, Syracuse Univ., Section Chairman

12:30 p.m. EMERGING FEDERAL GUIDELINES FOR SUPPORT OF URBAN INFORMATION SYSTEMS—LUNCHEON (Fee event) (conference continued from 10:30 a.m. session)
Speaker: CHARLES GRAVES, Dept. of Housing and Urban Development

1:00 p.m. EXECUTIVE SESSION

1:00 - 5:00 p.m. FIELD TRIP TO COLUMBIA, MARYLAND (Limited Reservations)

2:00 p.m. NEW HAVEN PRETEST OF THE 1970 CENSUS (Continued from 12:30 p.m. session)
Chairman: CONRAD TAEUBER, U. S. Bur. of the Census
The New Haven Pretest—Objectives and Findings, DAVID L. KAPLAN, U. S. Bur. of the Census
The Effort to Make Census Results More Useful for Local Purposes, ROBERT B. VOIGHT, U. S. Bur. of the Census
Using Census Data to Meet Local Needs, ESTELLE SIKER, Conn. Dept. of Health, IRA W. GABRIELSON, Yale Univ. and HARRY L. SAVITT, Conn. Dept. of Health
Discussion:
THEODORE D. WOOLSEY, National Center for Health Statistics
SUMNER IRISH, Computer Applications, Inc.

2:00 p.m. THE FEDERAL RESERVE—M.I.T. ECONOMETRIC MODEL
Chairman: WARREN SMITH, Univ. of Michigan
The Federal Reserve—MIT Econometric Model, FRANK de LEEUW and EDWARD GRAMLICH, Board of Governors of the Federal Reserve System
The Labor Market and Potential Output: A Simulation Study, PETER TINSLEY and ALFRED TELLA, Board of Governors of the Federal Reserve System
WEDNESDAY / 49

A Model of the Mortgage Market and Residential Construction Activity, GORDON R. SPARKS, Bank of Canada and Queen's Univ.
Discussion:
EDMUND PHELPS, Univ. of Pennsylvania
DANIEL B. SUITS, Univ. of Michigan
STEPHEN GOLDFELD, Princeton Univ.

2:00 p.m.
SHOREHAM
Palladian Rm.
ASA

DESIGN FOR RESPONSE SURFACES
Chairman: CARL E. MARSHALL, Oklahoma State Univ.
Some Aspects of Experimental Strategy, G. E. P. BOX, Univ. of Wisconsin
Aims and Methods of Studying Yield Response Relationships, O. KEMPTHORNE, Iowa State Univ.

2:00 p.m.
SHOREHAM
Board Rm.
ASA

CONTRIBUTED PAPERS—SOCIAL STATISTICS—II
Chairman: GEORGE J. STOLNITZ, Univ. of Indiana
The Bias and Stability of the Jack-Knife Variance Estimator in Ratio Estimation, R. P. CHAKRABARTY, Univ. of Georgia and J. N. K. RAO, Texas A & M Univ.
The Estimation of Domain Sizes When Sampling Frames Are Interlocking, ROBERT S. COCHRAN, Univ. of Wyoming
Multiple Contrast Methods for Analytical Surveys, LEONARD A. MARASCUOLO, Univ. of California, Berkeley and MARYELLEN MCSWENEY, Michigan State Univ.
The Variance of an Estimate of Linkage Density from a Simple Random Sample of Graph Nodes, C. H. PROCTOR, North Carolina State Univ.
Designing Several Factor Analytical Surveys, GORDON BOOTH and J. SEDRANSK, Iowa State Univ.

2:00 p.m.
SHERATON PARK
Dover Rm.
AFEE

AXIOMS OF ECONOMICS AND THE CLAIM TO EFFICIENCY
Chairman: KENDALL P. COCHRAN, North Texas State Univ.
Speaker: SHERMAN KRUPP, Queens Coll.
Commentators:
ROBERT D. PATTON, Ohio State Univ.
LEWIS E. HILL, Texas Technological Coll.

2:00 p.m.
SHOREHAM
Executive Rm.
ENAR-WNAR
ASA

DEMOGRAPHY
Chairman: BRADLEY WELLS, Univ. of North Carolina
Volterra and Lotka Updated: Some Analogies between Animal, Human and Economic Societies, NATHAN KEYFITZ, Univ. of Chicago
2:00 p.m.  
SHOREHAM  
Tudor Rm.  
IMS  
APPLIED PROBABILITY  
Chairman: PETER NEY, Univ. of Wisconsin  
An Oscillating Random Walk, J. H. B. KEMPERMAN, Univ. of Rochester  
Approximation Methods for Stochastic Differential Equations, HOWARD CONNOR, Rockefeller Univ.  
Limit Theorems for a General Linear Functional on a Markov Branching Process, KRISHNA ATHREYA, Stanford Univ.  

2:00 p.m.  
SHOREHAM  
Heritage Rm.  
IMS  
CONTRIBUTED PAPERS—III  
Chairman: S. KULLBACK, George Washington Univ.  
(2:00) An Approximation to the Sample Size in a Selection Procedure of Bechhofer and Its Extension to Selection From a Multivariate Normal Population (Preliminary Report), E. DUDEWICZ, Univ. of Rochester  
(2:11) Bayesian Zero-Mean Uniform Discrimination, S. GEISSER, State Univ. of New York, Buffalo  
(2:22) Inference on Discrimination Coefficients, S. DAS GUPTA, Univ. of Minnesota  
(2:33) Construction of \( \beta \)-Content-Confidence Level \( \gamma \) Tolerance Regions When Sampling From the \( k \)-Variate Normal and Sample Sizes are Large (Preliminary Report), I. GUTTMAN, Univ. of Wisconsin  
(2:44) Iteration to the Mean Preference of a Multi-Normal Population Based on Successive Election Results, M. HINICH, Carnegie-Mellon Univ.  

BIOMETRY TRAINING PROGRAM DIRECTORS—MEETING (By invitation)  
Chairman: FELIX E. MOORE, Univ. of Michigan  
(Meeting continues Friday at 4:00 p.m.)  

2:00 p.m.  
SHOREHAM  
Forum  
TECHNOLOGICAL DEVELOPMENT AND THE NEW CONSUMER  
Chairman: PERRY BLISS, State Univ. of New York, Buffalo  
N.I.C.B.—Forecast of Consumer Markets, MARCUS ALEXIS, Univ. of Rochester  
Psycho-Social Reactions to the Abundant Society, SIDNEY J. LEVY, Northwestern Univ.  
Leisure Mobility and Life Style Patterns, ALAN R. ANDREASEN, State Univ. of New York, Buffalo  
Technology Innovation and Consumer Decision Making, CHARLES W. KING, JR., Purdue Univ.
2:30 p.m.  WASH.-HILTON  
Jefferson—East  
AMA

COMPARATIVE MARKETING SYSTEMS: THE GOVERNMENT’S ROLE
Chairman: DAVID CARSON, Boston Univ.
Government Systems and Marketing Management, DAVID CARSON, Boston Univ.
Market Development and Market Control, LEE E. PRESTON, Univ. of California, Berkeley
Japan: A Unique Approach, JAMES ABEGGLEN, Boston Consulting Group
Marketing and Public Policy in Latin America, PETER D. BENNETT, Pennsylvania State Univ.

2:30 p.m.  WASH.-HILTON  
Lincoln—West  
AMA

MARKETING EDUCATION: CHANGING DISCIPLINE DIMENSIONS
Chairman: DAVID J. LUCK, Southern Illinois Univ.
Qualifications Required for Effective Marketing Careers, BUFORD MELTON, International Minerals & Chemical Corp.
Marketing Education for the 1970’s, PHILIP KOTLER, Northwestern Univ.
Marketing Education’s Goals and Content Relative to Career and Student Demands, DONALD L. SHAWVER, Univ. of Missouri
Qualifications Required for Effective Marketing Careers (Consumer Goods Marketing), JAMES KIRKPATRICK, Scott Paper Co.

2:30 p.m.  WASH.-HILTON  
Military Rm.  
AMA

BUSINESS RESEARCH AND MARKETING IMPACT
Chairman: HARRY A. CARTER, Boeing Co.
Speaker: BLAINE COOKE, United Air Lines

2:30 p.m.  WASH.-HILTON  
Lincoln—East  
AMA

PRESENTATION OF SIGNIFICANT DOCTORAL RESEARCH
Chairman: JOHN S. WAGLE, Oklahoma State Univ.
Computer Applications in Marketing: An Analysis of Corporate Experiences, ROBERT M. KAPLAN, Simon Fraser Univ.
The Organizational Implications of a Movement-Storage Subsystem, ROBERT BREITENBACH, Oklahoma State Univ.
The Marketing Concept and Selling Organizations, RICHARD R. WEEKS, Roosevelt Univ.
Determining the Number of Salesmen to Employ—An Empirical Study, ZARREL V. LAMBERT, Univ. of Texas
Socio-Economic Indicators and Attitudinal Determinants of Personal Bankruptcy, H. LEE MATHEWS, Pennsylvania State Univ.
Aggregate Department Store Images: Social and Experimental Factors, ROBERT WYCKHAM, Simon Fraser Univ.
An Exploratory Study of Socio-Psychological Determinants of Consumer Behavior, ROSS GOBLE, Univ. of Utah
A Study of the Differences Between Self-Actualization Scores and Product Perceptions Among Female Consumers, CURTIS B. HAMM, Oklahoma State Univ.

3:30 p.m.  SHERATON PARK  
Dover Rm.  
AFEE

REPERCUSSIONS OF WELFARE PAYMENTS ON LABOR FORCE BEHAVIOR
Chairman: ALLAN GRUCHY, Univ. of Maryland
Speaker: JEROME B. KOMISAR, Univ. of the State of New York
Commentators: DAVID O'NEILL, Univ. of Pennsylvania
               JOHN OWEN, Johns Hopkins Univ.
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<td>4:00 p.m.</td>
<td><strong>GENERAL METHODOLOGY LECTURE</strong></td>
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<td><strong>SHOREHAM</strong></td>
<td>Chairman: CARL A. BENNETT, Battelle-Northwest</td>
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<td>Empire Rm.</td>
<td><em>Recent Developments in Sample Survey Methods</em>, H. O. H. HARTLEY,</td>
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<td>ASA</td>
<td>Texas A &amp; M Univ.</td>
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<td>ENAR-WNAR</td>
<td><strong>EXECUTIVE COUNCIL MEETING</strong></td>
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<td>IMS</td>
<td><strong>PRESIDENT’S RECEPTION</strong></td>
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<td>5:30 p.m.</td>
<td><strong>BIOMETRICS SECTION—MEETING (All Section Members Invited)</strong></td>
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<td><strong>SHOREHAM</strong></td>
<td>Chairman: WILFRID J. DIXON, Univ. of California, Los Angeles,</td>
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<td>Heritage Rm.</td>
<td>Section Chairman</td>
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<td>ASA</td>
<td><strong>TECHNOMETRICS MANAGEMENT COMMITTEE—DINNER MEETING</strong> (By invitation)</td>
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<td>D. Riley’s Suite</td>
<td>Chairman: CARL A. BENNETT, Battelle-Northwest Committee</td>
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<td>6:00 p.m.</td>
<td><strong>NORTH CAROLINA INSTITUTE OF STATISTICS—DINNER</strong></td>
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<td>(Blackie’s House of Beef, 22nd &amp; M Sts., N.W.)</td>
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<td>6:30 p.m.</td>
<td><strong>EXECUTIVE COMMITTEE DINNER MEETING (By invitation)</strong></td>
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<td><strong>SHERATON PARK</strong></td>
<td>Madison Rm.</td>
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<td>AEA</td>
<td><strong>EXECUTIVE BOARD DINNER (By invitation)</strong></td>
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<td>7:00 p.m.</td>
<td><strong>1967 COUNCIL MEETING</strong></td>
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<td><strong>STATLER-HILTON</strong></td>
<td>Chairman: T. E. HARRIS, Univ. of Southern California, President,</td>
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<td>IRRA</td>
<td><strong>CORPORATE SOCIAL RESPONSIBILITIES</strong></td>
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<td>7:30 p.m.</td>
<td>Chairman: THEODORE V. PURCELL, S.J., Cambridge Center for Social</td>
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<td><strong>SHOREHAM</strong></td>
<td>Studies</td>
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<td>Tudor Rm.</td>
<td><strong>Corporate Social Responsibilities</strong>, CLARENCE C. WALTON, Columbia</td>
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<td>Univ.</td>
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<td>Discussion:</td>
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<td>JOHN A. COUGHLAN, O.S.A., Villanova Univ.</td>
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WEDNESDAY / 53

8:00 p.m.  RECEPTION (Cash Bar)
STATLER-HILTON
Federal Rm.
IRRA

8:30 p.m.  SPECIAL ADDRESS INVITED BY THE PRESIDENT
SHOREHAM
Empire Rm.
ASA
Chairman: FREDERICK MOSTELLER, Harvard Univ., President, ASA
Speaker: JOHN W. GARDNER, Secretary of Health, Education, and Welfare

8:30 p.m.  PRESIDENTIAL ADDRESS
SHERATON PARK
Cotillion Rm.
AFEE
Chairman: CLARENCE E. AYRES, Univ. of Texas
Speaker: JOHN S. GAMBS, Hamilton Coll.

10:00 p.m.  INFORMAL SOCIAL HOUR
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ALLIED SOCIAL SCIENCE ASSOCIATION SECRETARIES—BREAKFAST MEETING (By invitation)

UNIVERSITY OF WASHINGTON ALUMNI BREAKFAST
Host: JOHN R. THOMPSON, Univ. of Georgia

SOCIAL STATISTICS SECTION—BREAKFAST MEETING (All Section Members Invited) (Fee event)
Chairman: JACOB J. FELDMAN, Harvard Univ., Section Chairman

ADVISORY BOARD BREAKFAST MEETING—SECTION ON PHYSICAL AND ENGINEERING SCIENCES (By invitation)
Chairman Pro Tern: CARL A. BENNETT, Battelle-Northwest

UNIVERSITY OF OKLAHOMA ECONOMICS DEPARTMENT—BREAKFAST

UNIVERSITY OF OREGON COLLEGE OF BUSINESS ADMINISTRATION—BREAKFAST

CURRENT ECONOMIC RESEARCH IN HEALTH FIELD—BREAKFAST

AGGREGATE DEMAND SHIFTS, LABOR TRANSFERS AND INCOME DISTRIBUTION
Chairman: VERNON W. RUTTAN, Univ. of Minnesota

Aggregate Demand Shifts and Income Distribution, HYMAN MINSKY, Washington Univ.
Discussion: W. H. LOCKE ANDERSON, Univ. of Michigan

Farm-Nonfarm Labor Transfers, DALE HATHAWAY, Michigan State Univ. and B. B. PERKINS, Univ. of Guelph
Discussion: LOWELL E. GALLAWAY, Univ. of Pennsylvania

GRADUATE STUDENT SESSION
Chairman: EGON NEUBERGER, State Univ. of New York, Stony Brook

Increasing Returns to Scale and Market Mechanism, MASAHIKO AOKI, Univ. of Minnesota

An Aircraft Routing Model for the Airline Firm, JAMES C. MILLER, III, Univ. of Virginia

A Theory of Economic Growth and Inflation, RICHARD W. MONTGOMERY, Oklahoma State Univ.
Discussion: JOSEPH LICARI, Princeton Univ.

MAHMOUD FOUAD, Univ. of Idaho
JOHN DOMINGUEZ, Univ. of Southern California
8:30 a.m.  
SHERATON PARK  
No. Cotillion Rm.  
AEA

**TRANSPORT FOR ECONOMIC AND SOCIAL DEVELOPMENT**  
(Joint Session with Transportation & Utilities Group)  
Chairman: GEORGE W. WILSON, Indiana Univ.

Simulation of Transport Policy Alternative for Colombia, PAUL O. ROBERTS and DAVID KRESGE, Harvard Univ.

A Transport Financing Model for Development, ALAN A. WALTERS, Massachusetts Inst. of Technology and Univ. of Birmingham, England

Transport Policies for European Economic Integration, JAMES R. NELSON, Amherst Coll.

Discussion:
GUSTAV RANIS, Agency for International Development  
BENJAMIN CHINITZ, Brown Univ.  
ERIC SCHENKER, Univ. of Wisconsin, Milwaukee

---

8:30 a.m.  
SHERATON PARK  
Baltimore Rm.  
AFA

**METROPOLITAN AREAS AND FISCAL FEDERALISM**  
Chairman: ALVIN H. HANSEN, Emeritus, Harvard Univ.

Fiscal Disparities in Metropolitan Areas, SEYMOUR SACKS, Syracuse Univ.

Revenue Sharing, GEORGE F. BREAK, Univ. of California, Berkeley

Discussion:
HARVEY E. BRAZER, Univ. of Michigan  
CHARLES J. GOETZ, Virginia Polytechnic Inst.

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8:30 a.m.  
SHERATON PARK  
Empire Rm.  
ASA

**NEW DEVELOPMENTS IN CONSUMER ANTICIPATION SURVEYS**  
Chairman: ROBERT FERBER, Univ. of Illinois

Experimentation with the Census Bureau Survey of Consumer Anticipations: Results to Date and Plans for the Future, F. THOMAS JUSTER, National Bur. of Economic Research


An Evaluation of Consumer Anticipations Surveys: Retrospect and Prospect, E. SCOTT MAYNES, Univ. of Minnesota

Discussion:
F. GERARD ADAMS, Univ. of Pennsylvania  
JOHN FRECHTLING, Ford Motor Co.  
GEORGE KATONA and JAY SCHMIEDESKAMP, Univ. of Michigan

---

8:30 a.m.  
SHOREHAM  
Palladian Rm.  
ASA

**RELIABILITY THEORY**  
Chairman: FRANK PROSCHAN, Boeing Scientific Research Labs.

Estimation from Accelerated Life Tests, RICHARD E. BARLOW, Univ. of California, Berkeley and ERNEST M. SCHUEKER, RAND Corp.

Infinitely Divisible Laws and the Elementary Renewal Theorem, W. L. SMITH, Univ. of North Carolina

A Lower Bound for System Reliability Assuming Component Maintenance, J. D. ESARY and FRANK PROSCHAN, Boeing Scientific Research Labs.

Markov Renewal Programming by Linear Programming, BENNETT FOX, RAND Corp.

---

8:30 a.m.  
SHOREHAM  
Diplomat Rm.  
ASA

**ASPECTS OF THE 1966 AND 1971 CENSUS PROGRAMMES IN CANADA**  
Chairman: W. D. PORTER, Dominion Bur. of Statistics

The Testing Program for the 1971 Census in Canada, I. P. FELLEGI and K. J. KROTUKI, Dominion Bur. of Statistics
Discussion:
Conrad Tauber, U. S. Bur. of the Census
J. F. Kantner, Univ. of Western Ontario

8:30 a.m.  
**MANY COURSES IN STATISTICS VERSUS A FEW COURSES IN DEPTH**  
Chairman: W. F. Taylor, Univ. of California, Berkeley
Panel Discussion:
Walter T. Federer, Cornell Univ.
Leo Katz, Michigan State Univ.
Lincoln Moses, Stanford Univ.

8:30 a.m.  
**DATA ANALYSIS**  
Chairman: Harry Smith, Jr., Univ. of North Carolina
Examining Some Assumptions of the Analysis of Variance in Experimental Data, L. R. Hutton and J. G. Darroch, Texas A & M Univ.
Continuity Correction in the Chi-square-test for 2 x 2 Tables, J. Grizzle, Univ. of North Carolina
Squeezing Information from Data—An Example of Censoring a Design, R. L. Wilder, McDonnell Douglas Corp.

8:30 a.m.  
**STUDIES IN THE PURE THEORY OF MARKETS**  
Chairman: Lionel McKenzie, Univ. of Rochester
Quasi-Equilibria in Markets with Non-convex Preferences, Ross M. Starr, Stanford Univ.
The Structure of Qualitatively Determinate Linear Systems, George M. Lady, Rice Univ.
A Noncooperative View of Oligopoly, James W. Friedman, Yale Univ.
Discussion:
Duncan K. Foley, Massachusetts Inst. of Technology
James P. Quirk, Univ. of Kansas
Lester Tels, Univ. of Chicago

8:30 a.m.  
**ESTIMATION METHODS**  
Chairman: John Hooper, Univ. of California, San Diego
Regression in the Presence of Stochastically Varying Parameters, Barr Rosenberg, Univ. of California, Berkeley
A Linear Model with Random Coefficients, Clifford Hildreth and James P. Houck, Univ. of Minnesota
Discussion:
Arnold Zellner, Univ. of Chicago
Thomas Rothenberg, Univ. of California, Berkeley
Gordon Kaufman, Massachusetts Inst. of Technology
8:30 a.m.  
SHERATON PARK  
Dover Rm.  
ES  

ECONOMETRIC STUDIES OF PRODUCTION FUNCTIONS
Chairman: MURRAY BROWN, State Univ. of New York, Buffalo

A Process Function for Rail Linehaul Operations, JOSEPH S. DE SALVO, RAND Corp.

A Two-Level CES Production Function and Tests of Alternative Specifications, RICHARD W. PARKS, Univ. of Chicago.

Aggregate Time Series Production Functions and Technical Change, PERRY SHAPIRO, Washington Univ.

Discussion:
JOHN KAIN, Harvard Univ.
ROBERT COEN, Stanford Univ.
MAURICE WILKINSON, Columbia Univ.

8:30 a.m.  
STATLER-HILTON  
Federal Rm.  
IRRA  

MANPOWER AND ITS EDUCATION AND TRAINING
Chairman: CHARLES A. MYERS, Massachusetts Inst. of Technology

The Education and Training of Tool and Diemakers, MORRIS A. HOROWITZ and IRWIN L. HERRNSTADT, Northeastern Univ.

Vocational Retraining Programs for the Unemployed, GERALD G. SOMERS, Univ. of Wisconsin and GRAEME H. McKECHNIE, York Univ.


Discussion:
WOODROW GINSBURG, IUD, AFL-CIO
EDWARD A. ROBIE, Equitable Life Assurance Society
DAVID P. TAYLOR, Massachusetts Inst. of Technology

8:30 a.m.  
SHOREHAM  
Forum  
IMS  
ASA  

SEQUENTIAL THEORY
Chairman: J. R. BLUM, Univ. of New Mexico

Sequential Stopping Rules, DAVID SIEGMUND, Stanford Univ.

Fixed Precision Estimation in Time Series, JUDAH ROSENBLATT, Univ. of New Mexico

8:30 a.m.  
SHOREHAM  
Heritage Rm.  
IMS  

CONTRIBUTED PAPERS-IV
Chairman: R. LUNDEGARD, Office of Naval Research

(8:30) Estimation Through Preliminary Test Estimators, J. ARNOLD and S. KATTI, Florida State Univ.

(8:41) Some Asymptotic Results, Based on Censored Data, for the Maximum Likelihood Estimate and the Posterior Distribution of Parameters Subject to Constraints (Preliminary Report), A. BASU, J. BORWANKER, Univ. of Wisconsin, Univ. of Minnesota


(9:03) The Estimation of the Probability that Y < X, P. ENIS and S. GEISSER, State University of New York, Buffalo

(9:14) Investigation of Rules for Dealing with Outliers in Small Samples From the Normal Distribution I: Estimation of the Mean, I. GUTTMAN, D. SMITH, Univ. of Wisconsin, HRB-Singer, Inc.


(9:36) Combination of Unbiased Estimators of the Mean Which Consider Inequality of Unknown Variances, J. MEHTA and J. GURLAND, Univ. of Wisconsin

(9:47) On Unbiased Density Estimators Based on One Observation, J. PUTTER, Univ. of Wisconsin
(9:58) Estimating the Parameters of a Sum of Two Independent Nonidentically Distributed Random Variables (Preliminary Report), S. SCLOVE, J. VAN RYZIN, Stanford Univ., Univ. of Wisconsin

(10:09) Bayesian Estimation of Regression Parameters for a Class of Symmetric Distributions, G. TIAO, D. LUND, Univ. of Wisconsin, Wisconsin State Univ.

9:15 a.m.  WASH.-HILTON
Jefferson—West  AMA

ETHICAL DIMENSIONS OF MARKETING BEHAVIOR
Chairman:  S. WATSON DUNN, Univ. of Illinois

Some Thoughts on the Nature of Ethics in Marketing, J. H. WESTING, Univ. of Wisconsin

Ethics in Today's Marketing, WILLIAM J. COLIHAN, JR., Young & Rubicam, Inc.

Advertising Ethics—The Consumer View, STEPHEN A. GREYSER, Harvard Univ.

Ethics for Marketing Executives: The Educational Environment, NORTON E. MARKS, Univ. of Notre Dame

Ethics for Marketing Executives: The Educational Environment, RICHARD A. SCOTT, Univ. of Arizona

The FT C's Influence on Marketing Ethics and Practices, WILLIAM D. RYAN, Univ. of Georgia

9:15 a.m.  WASH.-HILTON
Crystal—West & East  AMA

TECHNOLOGICAL DEVELOPMENT AND CORPORATE ACTION
Chairman:  EDGAR A. PESSEMIER, Purdue Univ.

Identifying, Appraising and Reacting to Major Technological Change, ARNOLD C. COOPER, Stanford Univ.

Reducing the Risk of Translating Technological Developments into Marketable Products, ROBERT W. PRATT, General Electric Co.

Rejuvenating the Corporation through New Enterprises, EDWARD B. ROBERTS, Massachusetts Inst. of Technology

Market Structure, Marketing Proficiency and International Technology Flows, F. M. SCHERER, Univ. of Michigan

9:15 a.m.  WASH.-HILTON
Jefferson—East  AMA

GOVERNMENT'S ROLE IN STIMULATING NEW MARKETS
Chairman:  SALVATORE F. DIVITA, IBM Corp.

Stimulating New Markets—Needs, Programs, Responses, ALBERT LEVY, Franklin Inst. Research Labs.

Government Planning as a Market Stimulant, RONALD B. LEE, Office of Postmaster General

Stimulated Markets—The Company's View, G. SULLIVAN CAMPBELL, Graphic Sciences, Inc.

9:15 a.m.  WASH.-HILTON
Lincoln—West  AMA

INTERNATIONAL BUSINESS AND MARKETING EDUCATION
Chairman:  H. J. DePODWIN, Rutgers Univ.

Rules of the International Game, H. J. DePODWIN, Rutgers Univ.

The Overview, GEORGE H. BECKER, JR., Kysor International

Pricing in the International Market, M. IAN McALLEY, McAlley Assoc., Ltd.

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| 9:15 a.m. | WASH.-HILTON  | **GOVERNMENT RESEARCH AND MARKETING IMPACT**  
Lincoln—East  
AMA  
Chairman: DALE L. ANDERSON, U. S. Dept. of Agriculture  
The Economic Impact of Federal Research and Development Programs, H. E. RILEY, National Science Foundation  
Impact of New Government Programs on Marketing, RICHARD SAUL, Office of Economic Opportunity  
Input/Output Analysis, JANET B. RIDDLE, U. S. Dept. of Commerce |
| 9:15 a.m. | WASH.-HILTON  | **GOVERNMENT-CORPORATE INTERESTS: INDUSTRY PERSPECTIVES**  
Military Rm.  
AMA  
Chairman: EUGENE J. KELLEY, Pennsylvania State Univ.  
Competition and Marketing Efficiency, JESSE W. MARKHAM, Princeton Univ.  
The FTC and Current Marketing Interfaces: The Government's Perspective, WILLARD F. MUELLER, Federal Trade Commission  
Yes, But Let's Be Practical—The Business Perspective, JERROLD G. VAN CISE, Cahill, Gordon, Sonnett, Reindel and Ohl |
| 9:30 a.m. | SHERATON PARK  | **THE RELEVANCE OF EDUCATION TO DEVELOPMENT AND GROWTH**  
Frederick Rm.  
AFEE  
Chairman: WILLIAM E. HEWITT, U. S. Dept. of Labor  
Speaker: MEREDITH GIVENS, U. S. Dept. of State  
Commentators:  
KARL de SCHWEINITZ, Northwestern Univ.  
CLARENCE E. AYRES, Univ. of Texas |
| 10:30 a.m. | SHERATON PARK  | **ROUND TABLE ON THE ECONOMICS OF ENVIRONMENTAL MANAGEMENT**  
Dover Rm.  
AEA  
Moderator: JOSEPH L. FISHER, Resources for the Future, Inc.  
Panel:  
JACK W. CARLSON, Council of Economic Advisers  
M. MASON GAFFNEY, Univ. of Wisconsin, Milwaukee  
MORRIS E. GARNSEY, Univ. of Colorado  
LESTER B. LAVE, Carnegie-Mellon Univ. |
| 10:30 a.m. | SHOREHAM  | **ROUND TABLE ON THE ECONOMICS OF HIGHER EDUCATION**  
Regency Rm.  
AEA  
Moderator: CHARLES KILLINGSWORTH, Michigan State Univ.  
Panel:  
CLARK KERR, Univ. of California, Berkeley  
ALAN CARTTER, New York Univ.  
GERARD BRANNON, U. S. Treasury Dept. |
| 10:30 a.m. | SHERATON PARK  | **MEASUREMENT OF PERFORMANCE OF SECURITY PORTFOLIOS**  
Sheraton Hall  
AFA  
Chairman: DOUGLAS A. HAYES, Univ. of Michigan  
Components of a Measurement Model, PETER DIETZ, Northwestern Univ.  
The Evaluation of Investment Management Performance, SCOTT BAUMAN, Univ. of Oregon  
Discussion:  
G. WALTER WOODWORTH, Dartmouth Univ.  
ALDEN C. OLSON, Michigan State Univ. |
MODELS IN ADVERTISING AND MARKETING
Chairman: SOLOMON DUTKA, Audits & Surveys, Inc.
Managerial Implications of Marketing Models, DAVID B. LEARNER, Batten, Barton, Durstine, & Osborn, Inc.
Input-Output Models in Marketing: Conceptions and Misconceptions, JACK MOSHMAN, EBS Management Consultants

DEVELOPMENTS IN THE USE OF TAX RETURN DATA—STATISTICS OF INCOME
Chairman: VITO NATRELLA, Internal Revenue Service
Analysis of Capital Gains Experience, GERARD M. BRANNON and NELSON McCLUNG, U. S. Treasury Dept.
Joint Committee Use of Statistics of Income Data, LAURENCE N. WOODWORTH, Joint Committee on Internal Revenue Taxation
Tax Research by States, CHESTER B. POND, New York State Dept. of Taxation & Finance
Discussion:
DOUGLAS H. ELDRIDGE, National Bur. of Economic Research
THOMAS C. ATKESON, Coll. of William & Mary

SEQUENTIAL METHODS
Chairman: HERBERT T. DAVID, Iowa State Univ. and Univ. of Minnesota
Sequential Methods in Process Control, WILLIAM D. LAWING, JR., Iowa State Univ. and Research Triangle Inst.
A Continuous Acceptance Sampling Procedure for Variables Based on Cumulative Sums, RICHARD R. PRAIRIE and W. J. ZIMMER, Sandia Corp.

METHODOLOGY OF SAMPLE SURVEYS IN SOCIAL STATISTICS
Chairman: JOSEPH STEINBERG, Social Security Admin.
The Unrelated Question Randomized Response Model, DANIEL G. HORVITZ and B. V. SHAH, Research Triangle Inst. and WALT R. SIMMONS, National Center for Health Statistics
The Sampling of Experiments, WILLIAM G. MADOW, Stanford Research Inst.
Discussion:
EARL E. HOUSEMAN, U. S. Dept. of Agriculture
HAROLD NISSELMAN, Operations Research, Inc.

CONTRIBUTED PAPERS—GENERAL
Chairman: M. V. JOHNS, JR., Stanford Univ.
Estimation for the Beta II Model, ROSHAN L. CHADDHA and JOHN A. TISCHENDORF, Bell Telephone Labs.
Sample Size for a Problem in Choosing the Population with the
Largest Mean, P. N. SOMERVILLE, Florida Inst. of Technology and
RCA Service Co.

Bayesian Analysis of Performance Indices, BRUCE HOADLEY, Bell
Telephone Labs.

A Goodness of Fit Test for Autoregressive Schemes, HERBERT T.
DAVIS, Johns Hopkins Univ.

IS ECONOMIC THEORY CULTURE-BOUND?
Chairman: C. ADDISON HICKMAN, Southern Illinois Univ.

Social and Political Factors and Economic Growth: Further Evi­
dence and Theory, IRMA ADELMAN, Northwestern Univ. and
CYNTHIA T. MORRIS, American Univ.

Economics, Anthropology and Economic Anthropology, GEORGE
DALTON, Northwestern Univ.

Discussion:
CHANDLER MORSE, Cornell Univ.
JOSEPH S. BERLINER, Brandeis Univ.

ECONOMIC IMPLICATIONS OF UNITED STATES MANPOWER PRO­
GRAMS
Chairman: JOHN J. HOOKER, Catholic Univ.

Manpower Studies Currently Being Undertaken by the Joint Eco­
nomic Committee, JOHN REGAN STARK, Joint Economic Committee
Technical Schools and Automation, SVETOZAR PEJOVICH, Texas
A & M Univ.

Fifty Years of the October Revolution: Effect of Economic Reforms
on Communist Systems, CYRIL A. ZEBOT, Georgetown Univ.

Discussion:
JOSEPH KING, Board of Governors of the Federal Reserve System
ARNOLD C. HARBERGER, Univ. of Chicago
EMIL SMOLINSKI, Boston Coll.

MODELS OF BREAST CANCER
Chairman: S. J. CUTLER, National Inst. of Health

A Quantitative Model for the Natural Time History of Breast
Cancer, MARVIN ZELEN, State Univ. of New York, Buffalo

A Two-Disease Model of Breast Cancer, IRWIN D. J. BROSS and
L. BLUMENSON, Roswell Park Memorial Inst.

Discussion:
A. M. LILLIENFELD, John Hopkins Univ.
M. FEINLEIB, National Heart Inst.

ESTIMATION PROCEDURES
Chairman: FRANKLIN FISHER, Massachusetts Inst. of Technology

A Flexible Infinite Distributed Lag, ROBERT E. HALL and RICHARD
C. SUTCH, Univ. of California, Berkeley

Least Squares Forecasts and Allocation under Risk, RICHARD G.
HEIFNER, Michigan State Univ.

Small Sample Properties of Alternative Estimators of Seemingly
Unrelated Regressions, JAN KMENTA and ROY F. GILBERT, Michi­
gan State Univ.

Alternative Estimators of Transition Probabilities: Their Formu­
lation and Sampling Properties, T. C. LEE and G. JUDGE, Univ.
of Illinois and A. ZELLNER, Univ. of Chicago
THURSDAY

10:30 a.m.
SHERATON PARK
Annapolis Rm.
ES


Simultaneous Hypothesis Testing with an Application to the Cost of Capital, ROBERT J. OSTER, Bank of America

Characteristics of Some Bivariate Gamma and Exponential Distributions and the Approximation of their Expected Regression Equations, SE-HARK PARK, Marquette Univ.

The Exact Distribution of a Structural Coefficient Estimator, DAVID H. RICHARDSON, Univ. of Kansas

A Class of Parameters for the Investigation of Categorical Data, DAVID S. SALSBURG, Univ. of Pennsylvania

10:30 a.m.
SHERATON PARK
No. Cotillion Rm.
ES

PLANNING MODELS
Chairman: PAUL CLARK, Williams Coll.

The Effects of Long-run and Short-run Planning Goals on Economic Policy Instruments, JEFFREY B. NUGENT and MICHAEL E. DePRANO, Univ. of Southern California

Numerical Analysis of a Nonlinear Economic Planning Model, DAVID KENDRICK and LANCE TAYLOR, Harvard Univ.


Discussion:
RICHARD ECKAUS, Massachusetts Inst. of Technology
THOMAS VIETORISZ, New School for Social Research
HOLLIS CHENERY, Harvard Univ.

10:30 a.m.
SHERATON PARK
Park Rm.
ES

EMPLOYMENT AND THE LABOR MARKET

The Specification of Short-run Employment Models and Returns to Labor, D. J. SMYTH, Univ. of Birmingham and State Univ. of New York, Buffalo and N. J. IRELAND, Univ. of Kent

The Short Run Demand for Employment, RAY C. FAIR, Massachusetts Inst. of Technology

Theory of Phillips' Wage Adjustment Relation, CHARLES C. HOLT, Univ. of Wisconsin

Discussion:
FRANK BRECHLING, Northwestern Univ.
JOSEPH MOONEY, Princeton Univ. and Council of Economic Advisers
EDWIN MILLS, Johns Hopkins Univ.

SYMPOSIUM SESSION ON THE PURE THEORY OF DEMAND
Chairman: KENNETH ARROW, Harvard Univ.

Revealed Preference without Demand Continuity Assumptions, LEONID HURWICZ and MARCEL K. RICHTER, Univ. of Minnesota

Towards a Complete Model of the Consumer, KELVIN LANCASTER, Columbia Univ.

Discussion: NICHOLAS GEORGESCU-ROEGEN, Vanderbilt Univ.
INTERNAL AND EXTERNAL LABOR MARKETS
Chairman: ARNOLD R. WEBER, Univ. of Chicago

Voluntary Labor Mobility in the U.S. Manufacturing Sector, JOHN F. BURTON, JR., Univ. of Chicago and JOHN E. PARKER, Univ. of Michigan

Computer Aids to the Placement Process in Internal and External Labor Markets, FRAZIER KELLOGG, Massachusetts Inst. of Technology

Intraplant Mobility of Negroes: Some Industry Differences, HERBERT NORTHRUP, Univ. of Pennsylvania

Discussion:
JOSEPH ULLMAN, Purdue Univ.
MYRON L. JOSEPH, Carnegie-Mellon Univ.

DISCRIMINATION AND OTHER OBSTACLES TO EFFECTIVE MAN-POWER UTILIZATION
Chairman: WILLIAM GOMBERG, Univ. of Pennsylvania

Panel:
WALTER A. FOGEL, Univ. of Wisconsin
KIRK R. PETSHEK, Univ. of Wisconsin, Milwaukee
LEONARD RICO, Univ. of Pennsylvania
DONALD SLAIMAN, AFL-CIO
PHYLLIS WALLACE, Equal Employment Opportunity Commission

WALD LECTURE—II
Chairman: HAROLD HOTELLING, Univ. of North Carolina

Recent Results in Parametric Large Sample Theory II: Large-Deviation Theory of Statistical Tests, WASSILY HOEFFDING, Univ. of North Carolina

MYTH AND REALITY IN INTERNATIONAL CAPITAL MOVEMENTS
Chairman: WALDEMAR CARLSON, California State Coll.

Speaker: JACOB OSER, Syracuse Univ.

Commentators:
JOSEPH D. PENO, Hamilton Coll.
HERBERT I. SCHILLER, Univ. of Illinois

CONTRIBUTED PAPERS—V
Chairman: M. HALPERIN, National Inst. of Health


(11:46) Two Queues in Series with a Finite, Intermediate Waiting-room, M. NEUTS, Purdue Univ.

(11:57) Some New Results in Storage Theory, N. PRABHU, Cornell Univ.

(12:08) More Support for a Conjecture, S. SAMUELS Purdue Univ.


TRANSPORTATION AND PUBLIC UTILITIES GROUP—LUNCHEON
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<td>12:00 noon</td>
<td>WASH.-HILTON</td>
<td>PRESIDENT’S LUNCHEON (Fee Event)</td>
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<td>International</td>
<td>Chairman: ROBERT J. HOLLOWAY, Univ. of Minnesota, President, AMA</td>
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<td>Ballroom—Center</td>
<td>Speaker: ALEXANDER B. TROWBRIDGE, Secretary of Commerce</td>
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<td>AMA</td>
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<td>12:00 noon</td>
<td>SHERATON PARK</td>
<td>BUSINESS MEETING—LUNCHEON</td>
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<td>12:00 noon</td>
<td>SHERATON PARK</td>
<td>AMERICAN BANKERS ASSOCIATION LUNCHEON FOR STONIER FELLOWSHIP WINNERS (By invitation)</td>
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<td>12:30 p.m.</td>
<td>SHERATON PARK</td>
<td>LUNCHEON (Fee event)</td>
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<td></td>
<td>Continental Rm.</td>
<td>Chairman: E. CLINTON STOKES, U.S. Chamber of Commerce</td>
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<td>AFEA</td>
<td>Central Banking and the Availability of Agricultural Credit, ANDREW F. BRIMMER, Board of Governors of the Federal Reserve System</td>
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<tr>
<td>12:30 p.m.</td>
<td>SHOREHAM</td>
<td>BUSINESS AND ECONOMIC STATISTICS SECTION—LUNCHEON MEETING (All Section Members Urged to Attend; Guests are Cordially Invited) (Fee event)</td>
</tr>
<tr>
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<td>Blue Rm.</td>
<td>Chairman: WILLIAM F. BUTLER, Chase Manhattan Bank, Section Chairman</td>
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<td>ASA</td>
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<tr>
<td>12:30 p.m.</td>
<td>SHOREHAM</td>
<td>SECTION ON PHYSICAL AND ENGINEERING SCIENCES—MEETING (All Section Members Invited)</td>
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<td>Tudor Rm.</td>
<td>Chairman: ROBERT HOOKE, Westinghouse Research &amp; Development Center, Section Chairman</td>
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<td>12:30 p.m.</td>
<td>SHERATON PARK</td>
<td>PRESIDENTIAL LUNCHEON</td>
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<td>Alexandria Rm.</td>
<td>Chairman: JAMES M. CAHILL, Manhattan Coll.</td>
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<td>CEA</td>
<td>Presidential Address:</td>
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<td>Social Implications of United States Manpower Programs, EDMUND A. KURTH, Loras Coll., President, CEA</td>
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<td>12:30 p.m.</td>
<td>STATLER-HILTON</td>
<td>IRC LUNCHEON MEETING (By invitation)</td>
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<td>Pan American Rm.</td>
<td>Directors of University Labor and Industrial Relations Centers</td>
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<td>IRRA</td>
<td>Co-Chairmen:</td>
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<td>RONALD HAUGHTON, Wayne State Univ.</td>
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<td>DALE YODER, California State Coll., Long Beach</td>
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<td>12:30 p.m.</td>
<td>STATLER-HILTON</td>
<td>LOCAL CHAPTER PRESIDENTS’ LUNCHEON (By invitation)</td>
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<td>Massachusetts Rm.</td>
<td>Chairman: DAVID B. JOHNSON, Univ. of Wisconsin</td>
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<td>IRRA</td>
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<tr>
<td>12:30 p.m.</td>
<td>SHERATON PARK</td>
<td>JOURNAL EDITORS LUNCHEON (By invitation)</td>
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<td>Adams Rm.</td>
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<td>ASSA</td>
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MODELS FOR REAL ESTATE DECISION-MAKING
Chairman: JEROME DASSO, Univ. of Oregon
A Behavioral Model of Retail Locations, RONALD S. GRAYBEAL, Univ. of California, Berkeley
A Model of Housing and Mortgage Markets, ALFRED N. PAGE, Univ. of Washington
Discussion:
WILLIAM R. BEATON, Univ. of Florida
C. EVERETT STEICHEN, Larry Smith & Co.

MEASUREMENT FOR PUBLIC POLICY
Chairman: WILLIAM CAPRON, Brookings Inst.
Analysis for Health Planning, ROBERT N. GROSSE, U.S. Dept. of Health, Education, & Welfare
Supply and Demand Analysis of Public Timber, HOWARD W. HJORT, U.S. Dept. of Agriculture
Discussion:
OTTO ECKSTEIN, Harvard Univ.
EDWARD M. FOSTER, Univ. of Minnesota

CONTRIBUTED PAPERS—BUSINESS & ECONOMIC STATISTICS—1
Chairman: JULIUS SHISKIN, U.S. Bur. of the Census
Differential Growth Rates of Metropolitan Areas in the 1960's, CLAUDE C. HAREN and ROBERT C. PEAK, U.S. Dept. of Agriculture
Economic Growth and the Distribution of Income, PAUL JONAS, Brooklyn Coll. and Univ. of New Mexico and HYMAN SARDY, Brooklyn Coll.
Investment Production and the Cost of Funds, ROBERT W. RESEK, Univ. of Illinois
Business Forecasting: The Predictive Value of Statistical Data, OTHMAR W. WINKLER, Georgetown Univ.
The Quantification of Judgment: Some Experimental Results, ROBERT L. WINKLER, Indiana Univ.

NON PARAMETRIC METHODS
Chairman: MARION R. BRYSON, Duke Univ.
Non Parametric Sequential Analysis, I. R. SAVAGE, Florida State Univ. and Yale Univ.
Randomized Non Parametric Tests for Several Hypotheses, CHARLES BELL, Case Western Reserve Univ.
Discussion: RALPH A. BRADLEY, Florida State Univ.

STATISTICAL AREAS
Chairman: WALTER F. RYAN, U.S. Office of Statistical Standards
The State Economic Area System—A Review after 17 Years, CALVIN L. BEALE, U.S. Dept. of Agriculture
Generalization of the Metropolitan Area Concept, BRIAN J. L. BERRY, Univ. of Chicago
Status of ZIP as a Tool of Statistical and Marketing Analysis, DIK TWEDT, Oscar Mayer & Co.
Discussion:
O. DUDLEY DUNCAN, Univ. of Michigan
KARL FOX, Iowa State Univ.

2:00 p.m.
SHOREHAM
Diplomat Rm.
ASA

TRAINING IN SAMPLING METHODS
Chairman: WILLIAM G. COCHRAN, Harvard Univ.
Training for Sampling in Survey Research, LESLIE KISH, Univ. of Michigan
Priorities for Improvement in Sampling Curricula, WALT R. SIMMONS, National Center for Health Statistics
Discussion: IVAN P. FELLEGI, Dominion Bur. of Statistics

2:00 p.m.
SHERATON PARK
Frederick Rm.
AFEE

INSTITUTIONAL BASES OF ECONOMIC STAGNATION IN CHILE
Chairman: THERESA WOLFSON, Brooklyn Coll.
Speaker: MILTON D. LOWER, Univ. of Maryland
Commentators:
TOM E. DAVIS, Cornell Univ.
JAMES STREET, Rutgers Univ.

2:00 p.m.
SHOREHAM
Executive Rm.
ENAR-WNAR
ASA

GENETICS
Chairman: C. C. COCKERHAM, North Carolina State Univ.
Estimation of Linkage Disequilibria in Random Mating Populations, K. KOJIMA and R. H. RICHARDSON, Univ. of Texas
Inversion Polymorphism in the Optimum Model, A. S. FRASER, Univ. of California, Davis
The Distribution of the Inbreeding Coefficient, IAN R. FRANKLIN, Univ. of Chicago
SIMLAG: Simulation Language Adopted for Genetics, R. C. PFAFFENBERGER and C. E. GATES, Texas A & M Univ.

2:00 p.m.
SHERATON PARK
Wilmington Rm.
ES

SELECTED EMPIRICAL FINDINGS
Chairman: IRMA ADELMAN, Northwestern Univ.
A Comparison of Supply Functions: Direct Estimation vs. Derivation from Production Functions, D. LEE BAWDEN and LARRY J. WIPF, Univ. of Wisconsin
A Variable Weight Expectation Model, ROBERT W. DOEDE, Univ. of Pennsylvania
Socioeconomic Determinants of Entrepreneurial Success in Nigerian Industry, JOHN R. HARRIS, Massachusetts Inst. of Technology
The Demand for Cash Balances a la Latane: a Non-linear Estimation, A. KOOROS, Central Bank of Iran and Univ. of Santa Clara
Predictive and Statistical Properties of Insider Trading, JAMES H. LORIE and VICTOR NIEDERHOFFER, Univ. of Chicago
Consistent Estimation of Expenditure Elasticities from Cross-Section Data on Households Producing Partly for Subsistence, BENTON F. MASSELL, Stanford Univ.
The Separation of Normal and Transitory Components of Income from Cross-Section Data, ROBERT T. PARRY, Board of Governors of the Federal Reserve System
Size, Technology and Efficiency in Indian Manufacturing Industries, ULAGANATHAN SANKAR, Univ. of Wisconsin, Milwaukee and V. K. CHETTY, Columbia Univ.
Short-run Markoff Estimates of Family Income Distributions, JAMES D. SMITH, Office of Economic Opportunity and GLEN G. CAIN, Univ. of Wisconsin and Office of Economic Opportunity Expected Duration as a Dimension of Unemployment, DANIEL B. SUITS and RICHARD D. MORGENSTERN, Univ. of Michigan

Optimal Taxing of Water Pollution, CHARLES UPTON, Carnegie-Mellon Univ.

2:00 p.m.  
SHERATON PARK  
Dover Rm.  
ES

STUDIES IN THE PURE THEORY OF CONSUMER PREFERENCES AND BEHAVIOR
Chairman: MARCEL K. RICHTER, Univ. of Minnesota
Consumer Behavior under Conditions of Uncertainty in Supply, STEPHEN J. TURNOVSKY, Harvard Univ.
Rational Rules for Intertemporal Decision Making, CHARLES BLACKORBY, Univ of California, Santa Barbara
Homogeneous von Neumann-Morgenstern Utility Functions, ROBERT A. POLLAK, Univ. of Pennsylvania
Discussion: EDWARD ZABEL, Univ. of Rochester
ROBERT H. STROTZ, Northwestern Univ.
NILS HAKANSSON, Yale Univ.

2:00 p.m.  
SHERATON PARK  
Baltimore Rm.  
ES

DESCRIPITVE GROWTH MODELS
Chairman: ROBERT SUMMERS, Univ. of Pennsylvania
Properties of Equilibrium in a Growth Model with Economic Obsolescence, PRANAB K. BARDHAN, Massachusetts Inst. of Technology
Steady-State Behavior of Neoclassical Models with Many Capital Goods, EDWIN BURMEISTER, Univ. of Pennsylvania and RODNEY DOBELL, Harvard Univ.
A Neoclassical Growth Model with Endogenously Positioned Technical Change Frontier, JOHN CONLISK, Univ. of Wisconsin
Discussion: A. ASIMAKOPULOS, McGill Univ.
DAVID CASS, Yale Univ.
RONALD JONES, Univ. of Rochester

2:00 p.m.  
SHOREHAM  
Tudor Rm.  
IMS

PROBABILITY, WEAK CONVERGENCE
Chairman: L. H. KOOPMANS, Univ. of New Mexico
Basic Ideas of Weak Convergence, PATRICK BILLINGSLEY, Univ. of Chicago
Construction of a.s. Convergent Sequences of Stochastic Processes, RONALD PYKE, Univ. of Washington

2:00 p.m.  
SHOREHAM  
Heritage Rm.  
IMS

CONTRIBUTED PAPERS—VI
Chairman: J. MANDEL, National Bur. of Standards
(2:00) On a Test for Several Linear Relations (Preliminary Report), A. BASU, Univ. of Wisconsin
(2:33) Asymptotic Distribution of the Sample Size for a Sequential Probability Ratio Test, K. CHANDA, Univ. of Florida
(2:44) Starshaped Transformations and the Power of Rank Tests, K. DOKSUM, Univ. of California, Berkeley
(2:55) On the Distribution of the Log Likelihood Ratio Test Statistic When the True Parameter is "Near" the Boundary of the Hypothesis Regions (Preliminary Report), P. FEDER, Yale Univ.
(3:06) The Median Significance Level and Other Small Sample Measures of Test Efficacy, B. JOINER, National Bur. of Standards

2:15 p.m.
WASH.-HILTON
Jefferson—West
AMA

THE INTERNATIONAL CONSUMER: CROSS CULTURAL PERSPECTIVES
Chairman: FRANKLIN R. ROOT, Naval War College
Cross-Cultural Analysis of Consumer Behavior, JERRY WIND, Univ. of Pennsylvania
The Concept of Culture in the Analysis of Consumers, MANECK S. WADIA, California Western Univ.
Consumer Buying and Communication Patterns in Bolivian Food Retailing, DONALD HENLEY, Michigan State Univ.

2:15 p.m.
WASH.-HILTON
Jefferson—East
AMA

SOCIETAL NORMS AND BUSINESS RESPONSIBILITY
Chairman: WILLIAM R. DAVIDSON, Ohio State Univ.
Historical Changes in Socially Acceptable Views of Business Responsibility, CLARENCE WALTON, Columbia Univ.
Conflicting Responsibilities as a Deterrent to Increased Business Statesmanship, W. ARTHUR CULLMAN, Ohio State Univ.
Societal Norms and Marketing Implications, WILLIAM LAZER, Michigan State Univ.

2:15 p.m.
WASH.-HILTON
Lincoln—West
AMA

TECHNOLOGICAL DEVELOPMENTS AND EMERGING MARKET SEGMENTS
Chairman: JOHN R. MALONE, Univ. of Notre Dame
Market Segmentation: An Evaluation, EDGAR CRANE, Univ. of Houston
Information Systems and Market Segmentation, ADRIAN MCDONOUGH, Univ. of Pennsylvania
Markets and Marketing: The Year 2000, PAUL BARAN, RAND Corp.

2:15 p.m.
WASH.-HILTON
Lincoln—West
AMA

PUBLIC POLICY AND MARKETING RESPONSIBILITY: THE EDUCATOR'S CHALLENGE
Chairman: HANS B. THORELLI, Indiana Univ.
What Are the Economists Doing?, JAMES W. KNOWLES, Joint Economic Committee
On the Ethics of Expertise, JAMES M. PATTERSON, Indiana Univ.
Would We Have Anything to Say?, MICHAEL H. HALBERT, Marketing Science Inst.

Teaching and Research Implications, STANLEY C. HOLLANDER, Michigan State Univ.

MARKETING EDUCATION AND RESEARCH ACTIVITIES: DISSERTATION RESEARCH COMPETITION
Chairman: J. L. HESKETT, Harvard Univ.

GAMING: HEURISTICS AND SIMULATION APPLICATIONS TO SYSTEMS ANALYSIS
Chairman: RONALD E. FRANK, Univ. of Pennsylvania

Some Approaches to Decision Making in an Uncertain Environment, PETER T. FITZROY, Univ. of Pennsylvania


An On-Line Search Technique for Estimating and Analyzing Complex Models, GLEN L. URBAN, Massachusetts Inst. of Technology

INTERNATIONAL LIQUIDITY
Chairman: JOHN M. LETICHE, Univ. of California, Berkeley

The Present State of International Liquidity Theory, RICHARD G. LIPSEY, Essex Univ. England

The Current Relevance of International Liquidity for Developed Countries, RICHARD N. COOPER, Yale Univ.

The Current Relevance of International Liquidity for Developing Countries, ALEXANDRE KAFKA, Univ. of Virginia

Discussion:
The Case of the United Kingdom, PETER M. OPPENHEIMER, Christ Church, Oxford Univ.
The Case of the Common Market, GEORGES PLESCOFF, International Monetary Fund for France
The Case of the United States, FRANCIS M. BATOR, Harvard Univ.

Synthesis and Appraisal, JOHN M. LETICHE, Univ. of California, Berkeley

BEHAVIORAL AND ECOLOGICAL ECONOMICS
Chairman: KERMIT GORDON, Brookings Inst.

Consumer Behavior: Theory and Findings on Expectations and Aspirations, GEORGE KATONA, Univ. of Michigan

The Supply of Effort and the Interpretation of Inequality, JAMES N. MORGAN, Univ. of Michigan


Discussion:
PETER de JANOSI, Ford Foundation
HAROLD W. WATTS, Univ. of Wisconsin

ECONOMICS OF ARMS CONTROL AND DISARMAMENT
Chairman: ARCHIBALD S. ALEXANDER, U.S. Arms Control and Disarmament Agency
THURSDAY / 2:30 p.m.
SHERATON PARK
Franklin Rm.
AFA

The Monetary and Real Costs of National Defense, EMILE BENOIT, Columbia Univ.
Economic Sanctions and Rewards in Support of Disarmament Treaties, MORRIS BORRSTEIN, Univ. of Michigan
Arms and the American Economy: A Domestic Convergence Hypothesis, MURRAY WEIDENBAUM, Washington Univ.
Discussion:
WILLIAM CAPRON, Brookings Inst.
HOLLAND HUNTER, Haverford Coll.

PROGRESS TOWARD A UNIFORM CONSUMER CREDIT CODE
Chairman: ERNST A. DAUER, Household Finance Corp.
Economic Rationale of a Uniform Consumer Credit Code, ROBERT W. JOHNSON, Purdue Univ.
Regulation, Contract Limitations, Debtor-Creditor Remedies, ALLISON DUNHAM, National Conference of Commissioners on Uniform State Laws
Discussion:
ROGER S. BARRETT, Household Finance Corp.
DAVID I. FAND, Wayne Univ.
ROBERT C. MAYER, Woll, Mayer & St. Antoine

2:30 p.m.
SHERATON PARK
Hamilton Rm.
CEA

BUSINESS MEETING

2:30 p.m.
STATLER-HILTON
So. American Rm.
IRRA

THE PERIPHERAL LABOR FORCE
Chairman: ELI GINZBERG, Columbia Univ.
The Peripheral Labor Force in an Affluent Economy, DEAN W. MORSE, Columbia Univ.
Discussion:
GERTRUDE BANCROFT McNALLY, Washington, D. C.
ROBERT M. FEARN, North Carolina State Univ.
WILLIAM G. BOWEN, Princeton Univ.
BAYARD RUSTIN, A. Philip Randolph Inst.
WALTER FOGEL, Univ. of California, Los Angeles

GOVERNMENT’S MANPOWER ROLE
Chairman: E. WIGHT BAKKE, Yale Univ.
Evaluation of Federal Manpower Programs, GARTH L. MANGUM, George Washington Univ.
Manpower Aspects of the Poverty Program, SAR A. LEVITAN, George Washington Univ.
Administering Manpower Programs, R. THAYNE ROBSON, Univ. of Utah
Legislating Manpower Programs, JAMES O’HARA, U.S. Congress (Michigan)

3:00 p.m.
SHERATON PARK
Madison Rm.

ECONOMICS INSTITUTE—COFFEE HOUR
**IURSDAY**

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<th>Time</th>
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<tr>
<td>4:00 p.m.</td>
<td>SHOREHAM Empire Rm.</td>
<td>Chair: COLSTON E. WARNE, Amherst Coll. Speaker: BALDWIN RANSON, Western State Coll. of Colorado Commentators: J. MARTIN CAROVANO, Hamilton Coll. JAMES F. BECKER, New York Univ.</td>
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<tr>
<td>4:30 p.m.</td>
<td>SHERATON PARK Park Rm.</td>
<td>Chair: GERTRUDE M. COX, Research Triangle Inst. Some Perspectives in Data Analysis, JOHN W. TUKEY, Princeton Univ. and Bell Telephone Labs.</td>
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<tr>
<td>5:00 p.m.</td>
<td>SHERATON PARK Frederick Rm.</td>
<td>Chair: ALBERT ANDO, Univ. of Pennsylvania Are There Laws of Consumption?, HENDRIK S. HOUTHAKKER, Harvard Univ. and Council of Economic Advisers, President, ES</td>
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<tr>
<td>5:00 p.m.</td>
<td>SHERATON PARK Frederick Rm.</td>
<td>Chair: FREDERICK MOSTELLER, Harvard Univ., President, ASA</td>
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<td>5:00 p.m.</td>
<td>STATLER-HILTON Federal Rm.</td>
<td>Chair: T. E. HARRIS, Univ. of Southern California, President, IMS</td>
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<td>5:15 p.m.</td>
<td>SHERATON PARK Annapolis Rm.</td>
<td>Chair: T. E. HARRIS, Univ. of Southern California, President, IMS</td>
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<td>5:30 p.m.</td>
<td>SHOREHAM Heritage Rm.</td>
<td>Chair: T. E. HARRIS, Univ. of Southern California, President, IMS</td>
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<td>5:30 p.m.</td>
<td>SHOREHAM Tudor Rm.</td>
<td>Chair: T. E. HARRIS, Univ. of Southern California, President, IMS</td>
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5:30 p.m.
SHERATON PARK
Madison Rm.
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OMICRON DELTA EPSILON RECEPTION (By invitation)

6:30 p.m.
ENAR

ANNUAL BANQUET (Fee event)
(Avignon Freres Restaurant, 1777 Columbia Rd., N.W.)

6:30 p.m.
SHERATON PARK
Adams Rm.
ES

COUNCIL DINNER (by invitation)

7:00 p.m.
LAFAYETTE HOTEL
(16th and Eye Sts.)
Lorraine Rm.

WISCONSIN LABOR AND INDUSTRIAL RELATIONS DINNER (by invitation)
Chairmen: GERALD G. SOMERS and DAVID B. JOHNSON, Univ. of Wisconsin

7:30 p.m.
SHOREHAM
Tudor Rm.
IMS

1968 COUNCIL MEETING
Chairman: HERMAN CHERNOFF, Stanford Univ., President-Elect, IMS

8:00 p.m.
SHERATON PARK
Sheraton Hall
AEA

RICHARD T. ELY LECTURE
Chairman: KENNETH E. BOULDING, Univ. of Michigan and Univ. of Colorado
The Economics of Inquiring, Communicating and Deciding, JACOB MARSHAK, Univ. of California, Los Angeles

8:00 p.m.
SHERATON PARK
Hamilton Rm.
AFA

BOARD OF DIRECTORS MEETING

8:00 p.m.
STATLER-HILTON
California Rm.

UNIVERSITY OF ILLINOIS INSTITUTE OF LABOR AND INDUSTRIAL RELATIONS—MEETING
Chairman: WILLIAM McPHERSON, Univ. of Illinois

8:00 p.m.
SHERATON PARK
Dover Rm.

UNIVERSITY OF ILLINOIS COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION—SMOKER

9:00 p.m.
STATLER-HILTON
Federal Rm.
IRRA

SOCIAL HOUR

9:00 p.m.
SHERATON PARK
Wilmington Rm.

COLUMBIA UNIVERSITY ECONOMICS DEPARTMENT ALUMNI—RECEPTION
A complete introduction to economics . . .

SCARCITY CHALLENGED: An Introduction to Economics
HEINZ KOHLER, Amherst College

This introductory text presents basic concepts as they relate to the central economic problem of scarcity. Topics are developed in response to the fundamental goals of the economy. Each of these goals is discussed in a separate section. Part I argues that resources should be used fully. With this premise in mind, the author goes on to examine the theory of income determination, business cycles, and the results drawn from monetary and fiscal policy conclusions. Part II revolves around the aim of efficient use of resources. In this section conclusions are drawn for both capitalist and socialist economies. Part III argues for an increase in available resources and discusses their growth under various types of economies. The book concludes with a look at the conflicts between economic and non-economic goals.

March 1968 800 pp. $8.95 (tent.)

And as a teaching aid . . .

Study Guide to Accompany SCARCITY CHALLENGED: An Introduction to Economics
HEINZ KOHLER

This self-study guide for students includes the following: an outline of each chapter, a description of key points, and a discussion of points students are likely to find most difficult. Multiple-choice tests, problems, and true-false tests, all with answers at the end of the Guide, are included.

March 1968 224 pp. $3.95 paper (tent.)

And as a supplementary reader . . .

READINGS IN ECONOMICS
HEINZ KOHLER

This collection of articles is designed as a supplementary reader to accompany Scarcity Challenged, but may also be used in any introductory economics course. Each selection was chosen to give more detail in areas which have been covered concisely in the text, or to give an alternate point of view. An unusual feature is the inclusion of articles on socialist economies.

March 1968 640 pp. $3.95 paper (tent.)

Holt, Rinehart and Winston, Inc.
INTRODUCTION TO MACROECONOMIC THEORY

EDWARD AMES, Purdue University

This short book introduces macroeconomics from the point of view of income capital markets. A series of linear models presents and combines theories about the national income and balance sheet accounts in a simple, uniform way. The final chapter relates these theories to development and welfare economics. (Principles of Finance Series)

April 1968 128 pp. $1.95 paper (tent.)

READINGS IN MICROECONOMICS

Edited by WILLIAM BREIT and HAROLD M. HOCHMAN, both of the University of Virginia

The papers reprinted in this volume focus on the methodology, logic and applications of microeconomics with emphasis on conceptual rather than empirical material. Ideal for use as supplementary reading in courses in microeconomics and theory of the firm, the articles can be understood without significant training in mathematics other than geometry.

January 1968 544 pp. $5.95 paper (tent.)

ECONOMIC SYSTEMS: A Comparative Analysis, Third Edition

GEORGE N. HALM, The Fletcher School of Law and Diplomacy, Tufts University

Thoroughly rewritten and enlarged, the Third Edition of Economic Systems now includes a discussion of the most recent reform proposals in Soviet economy, and a chapter on Yugoslavia. Numerous smaller additions cover a comparison of Marxian and Keynesian economics, French planning, income policy, and the convergence of economic systems. As in previous editions, emphasis is placed on theoretical analysis.

January 1968 448 pp. $7.95 (tent.)

THE INTERNATIONAL MONETARY MECHANISM

LELAND B. YEAGER, University of Virginia

A description of the links between national monetary systems in international trade and investment. Professor Yeager explains the balance of payments concept, compares alternative balance of payment adjustment mechanisms, and explains the consequences of not allowing any of these mechanisms to operate. Included is a description of the present-day international monetary mechanism. (Money and Banking Series)

April 1968 128 pp. $2.50 paper (tent.)
Other Books in Finance

ESSENTIALS OF MANAGERIAL FINANCE
J. FRED WESTON and EUGENE F. BRIGHAM, both of the University of California, Los Angeles

A substantially rewritten and restructured version of the authors' Managerial Finance, Second Edition, this introductory text presents all aspects of finance with a minimum of formal theoretical proofs and technical details. The focus is on the use and application of the principles of finance. The analytical framework and emphasis on decision-making are maintained, while non-essential abstract material has been avoided. An Instructor's Manual and Study Guide will be available.

April 1968 576 pp. $8.95 (tent.)

And for added depth...

READINGS IN THE ESSENTIALS OF MANAGERIAL FINANCE
EUGENE F. BRIGHAM and R. BRUCE RICKS, both of the University of California

Designed to accompany Essentials of Managerial Finance, this reader provides a wide range of articles that illustrate in greater detail topics discussed in the text. Included in the articles are the most important references found in the text's end-of-chapter bibliographies.

April 1968 416 pp. $4.95 paper (tent.)

MANAGERIAL FINANCE, Second Edition
J. FRED WESTON and EUGENE F. BRIGHAM

This thorough revision of a highly esteemed text includes substantially reworked chapters on capital budgeting, cost of capital, financial control, financial forecasting, and mergers. The original objective of systematically carrying the important and powerful basic theory through all chapters and topics has been retained. Thus, the student develops an understanding of how cumulative theory can be applied to all aspects of business financing decisions. An Instructor's Manual is available.

1966 829 pp. $10.50

Now available...

ISSUES IN BANKING AND MONETARY ANALYSIS
Edited by GIULIO PONTECORVO, ROBERT P. SHAY and ALBERT GAILORD HART, all of Columbia University

1967 256 pp. $7.50
SURVEY OF INVESTMENTS
DONALD E. VAUGHN, Louisiana State University

More extensive in coverage than typical basic texts, this study of investment principles examines five major areas: security market operations; the fundamental approach to security analysis; the technical approach to timing security transactions, and portfolio management. The use of current literature, basic investment services, and periodicals is emphasized. An Instructor's Manual is available. (Finance Series)
1967 512 pp. $9.95

MANAGEMENT OF FINANCIAL INSTITUTIONS
Notes and Cases
ALEXANDER A. ROBICHEK and ALAN B. COLEMAN, both of Stanford University

Stressing the application of analytical techniques to the solution of financial problems, this collection is structured so that the student is exposed to all major financial institutions and the broad range of decision-making problems faced by such institutions. The book is a combination of text and case material in the sense that the cases discussed not only raise an issue requiring a decision but also provide considerable background material on the industry. An Instructor's Manual is available. (Finance Series)
1967 656 pp. $12.95

A new edition of a classic in its field . . .

MONEY AND BANKING, Fifth Edition
ELI SHAPIRO, Harvard University, EZRA SOLOMON, Stanford University, and WILLIAM WHITE, Harvard University

The Fifth Edition of this highly regarded text attempts to show the impact of monetary policy on an economy which has been opened to world finance and trade. Major revisions have been made in the section on commercial bank operations. The material dealing with money and financial markets has been extensively rewritten. The description of monetary theory now develops LM as well as IS curves. March 1968 768 pp. $9.95 (tent.)
Forthcoming from Irwin—1968


The new Sixth Edition has been fully rewritten to orient even more directly toward current problems while keeping the basic theoretical analysis of fundamentals always in view. It also has been carefully designed and balanced to meet the essential needs of the overwhelming majority of college courses in the principles and problems of economics. A Workbook by Professors Roger Ransom and Robert Johnson of the University of Virginia is in preparation.


A substantial number of changes and improvements have been made in this new Third Edition including several new chapters and new sections within chapters. Previous difficult material has been rewritten and clarified. Chapters are self-contained and there are self-contained major sections within chapters, thus permitting maximum teaching flexibility.

INTERNATIONAL ECONOMICS, Fourth Edition

By Charles P. Kindleberger, Massachusetts Institute of Technology

This revision has been reorganized entirely, abandoning the earlier arbitrary division based on the balance of payments and substituting a division into microeconomics in the first half and macroeconomics in the second. This permits elimination of some introductory material. As before, emphasis is still on analysis rather than history or description of institutions.

THE ECONOMICS OF DEVELOPMENT

By Everett E. Hagen, Massachusetts Institute of Technology

This new book is distinguished by four important features: 1) presentation and critical evaluation of the theoretical literature, including the large amount that has appeared in the past two years; 2) the empirical basis of the theory; 3) generous use of charts and tables; and 4) clarity of the writing.

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PRINCIPLES OF ECONOMICS

By Royall Brandis, University of Illinois

This new text treats all the subjects usually found in a two-semester text. New areas not usually covered in current texts are: regional economics, population problems, rigorous treatments of the theory of economic growth and of the integration of monetary and national income theory, and a description of the historical development of the U.S. economy. A Student Workbook will accompany the text.

MANAGERIAL ECONOMICS: Text and Cases, Revised Edition

By Charles Christenson, Richard F. Vancil, and Stanley I. Buchin, all of the Harvard Business School

Completely revised and updated, this volume is designed for basic text use in courses in business or managerial economics. It provides a means for the student to acquire skill in identifying real-world problems with relevant theory through practice. It also shows the application of economic concepts to the analysis of business decision problems.

ECONOMIC THEORY IN RETROSPECT, Revised Edition

By Mark Blaug, University of London Institute of Education

The whole of what has come to be known as orthodox economics is reviewed in this book. As before, the story is carried down to our own times, roughly 1960, although there is more material on activity analysis, economic dynamics, welfare economics, growth models, and technical changes—topics that have dominated economics in recent years—in this edition than in the first.

READINGS IN LABOR ECONOMICS AND LABOR RELATIONS

Edited by Richard L. Rowan and Herbert R. Northrup, both of the University of Pennsylvania

Supplementation of basic texts has been the editors’ major criterion in the selection of articles. Particular emphasis has been on making available articles which libraries cannot stock in quantities. A judicial mixture of classic pieces and current literature has been included; no other readings book in labor has this feature. Paperbound.

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ECONOMICS AND MAN, Third Edition
By John S. Gambs, Emeritus, Hamilton College, and Jerome B. Komisar, State University of New York

Written in a delightfully unpretentious but incisive style, this volume is planned as a text for elementary economics. It is distinguished by its liberal arts approach and is particularly well suited for students who do not plan to major in economics. This new Third Edition is completely up to date and includes a new chapter on poverty.

ECONOMICS OF AGRICULTURAL PRODUCTION, MARKETS, AND POLICY
By John P. Doll, V. James Rhodes, and Jerry G. West, all of the University of Missouri

A comprehensive undergraduate text, this new book covers the basic trichotomy of agricultural economics: production on farms, processing and distribution of food, and agricultural policy. Each of these topics is discussed at length in separate sections while a unifying theme of economic theory is developed and enlarged upon throughout the text.

TRANSPORTATION: Economics and Public Policy, Revised Edition
By Dudley F. Pegrum, U.C.L.A.

The emphasis throughout this volume is on the application of economic principles to transportation and its problems. Every chapter of the original text has been thoroughly revised, to update all factual materials and to include all federal legislation and significant Commission decisions since 1963. There are separate and extended chapters on competition and integration and consolidation.

GOVERNMENT FINANCE: An Economic Analysis, Fourth Edition
By John F. Due, University of Illinois

The new Fourth Edition of Government Finance reflects throughout new material which has appeared in recent years and incorporates up-to-date factual data. The basic nature of the volume remains the same as that of the highly successful previous editions. Emphasis is placed upon a unified treatment of the entire field of public finance, each aspect being reviewed in light of its role in the overall picture rather than as a separate and isolated phenomenon.

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In statistics

BASIC STATISTICS FOR BUSINESS AND ECONOMICS, Third Edition

By Dick A. Leabo, University of Michigan

The basic objective of this edition remains virtually the same as previous editions, namely, to present an introduction to statistical methods for students in business administration and economics. Five new chapters have been added and there has been a reorganization of chapters to further emphasize the importance of probability theory, sampling theory, and statistical inference.

STATISTICAL SELECTION OF BUSINESS STRATEGIES

By John Forester, California State College, Long Beach

The major subject of this book is the application of Bayesian statistics to business problems, otherwise referred to as “Decision Theory.” Its purpose is to teach business students how to solve business problems in the field of decision theory by the most efficient means. A large variety of decision theory problem types are covered.

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Volume XI in The American Economic Association Series of Republished Articles on Economics

READINGS IN INTERNATIONAL ECONOMICS

Edited by Richard E. Caves, Harvard University, and Harry G. Johnson, London School of Economics and the University of Chicago

This collection constitutes one of the “second generation” of volumes of reprinted articles prepared under the auspices of the American Economic Association. The articles stem from both theoretical and empirical studies and make clear presentations of original and important ideas that should stimulate further thought and research.

RICHARD D. IRWIN, INC.

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Basic Financial Management: Text, Problems, and Cases
by E. J. Mock, George Washington University; R. G. Schultz, California State College at Long Beach; R. E. Schultz and D. H. Shuckett, University of Southern California

Principles of Econometrics
by Kong Chu, Georgia Institute of Technology

Computers in Business: A Fortran Introduction
by Robert E. Malcom and Malcolm H. Gotterer, Pennsylvania State University

Manufacturing Management: A Quantitative Approach
by Robert A. Olsen, Pennsylvania State University

Dynamics of Management
by Arthur W. Gutenberg, University of Southern California and Eugene Richman, University of Hawaii

Models and Analysis for Production Management
edited by Michael P. Hottenstein, Pennsylvania State University

Casebook for Management and Business Policy: A Systems Approach
edited by Frank Greenwood, Ohio University

Concepts of Modern Marketing
edited by Ralph L. Day, Indiana University

Economics: Principles and Institutions
by Troy J. Cauley, Indiana University

Financial Decision Making
edited by Edward J. Mock, George Washington University

New Currents in Soviet-Type Economics
edited by George R. Feiwel, University of Tennessee

Readings in the Regulation of Business
edited by Sidney M. Blumner and Dennis L. Hefner, Washington State University

Scranton Pennsylvania 18515
SURVEY RESEARCH in the SOCIAL SCIENCES

Charles Y. Glock, Editor

Survey Design and Analysis in Sociology
Charles Y. Glock

Survey Research in Political Science
Herbert McClosky

The Practice and Potential of Survey Methods in Psychological Research
Daniel Katz

Contributions of Survey Research to Economics
James N. Morgan

Sociocultural Anthropology and Survey Research
John W. Bennett and Gustav Thaiss

Education and Survey Research
Martin Trow

The Survey Method in Social Work: Past, Present, and Potential
Fred Massarik

The Survey Method Applied to Public Health and Medicine
Edward A. Suchman

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FRIDAY, DECEMBER 29

7:00 a.m.  
NEW YORK STATE SCHOOL OF INDUSTRIAL AND LABOR RELATIONS,  
CORNELL UNIVERSITY—BREAKFAST (By invitation)  
Chairman: DAVID G. MOORE, Cornell Univ.

7:15 a.m.  
CHAPTER PRESIDENTS, SECRETARIES AND DISTRICT REPRESENTATIVES—BREAKFAST MEETING (By invitation)  
Chairman: FREDERICK MOSTELLER, Harvard Univ., President, ASA

NATIONAL MEMBERSHIP COMMITTEE—MEETING (Following the Chapter Breakfast); All ASA Chapter Membership Chairmen and Faculty Representatives are Invited  
Chairman: LAWRENCE V. CONWAY, American Savings & Loan Inst., Committee Chairman

7:15 a.m.  
NORTHWESTERN UNIVERSITY ALUMNI—BREAKFAST

7:30 a.m.  
REGIONAL COMMITTEE—BREAKFAST MEETING (By invitation)  
Chairman: PAUL MEIER, Univ. of Chicago, Regional President

TECHNOMETRICS ASSOCIATE EDITORS—BREAKFAST MEETING (By invitation)  
Chairman: FRED C. LEONE, Univ. of Iowa, Technometrics Editor

CASE INSTITUTE ECONOMICS-IN-ACTION ALUMNI—BREAKFAST (By invitation)

OHIO STATE UNIVERSITY DEPARTMENTS OF ECONOMICS AND BUSINESS ORGANIZATION—BREAKFAST

UNIVERSITY OF COLORADO ECONOMICS ALUMNI—BREAKFAST

INDIANA UNIVERSITY ALUMNI—BREAKFAST

UNIVERSITY OF NEW YORK—BREAKFAST (Fee event)
### EXPERIMENTS IN TEACHING ECONOMICS
Chairman: MARSHALL R. COLBERG, Florida State Univ.

Computer-Aided Instruction in the Elementary Course, ALLEN C. KELLEY, Univ. of Wisconsin

A Simple Macroeconomic Game for Undergraduate Courses, RICHARD ATTIEYEH, Univ. of California, San Diego, WILLIAM C. BRAINARD, Yale Univ. and F. T. DOLBEAR, JR., U.S. Bur. of the Budget

An Experiment with Television in the Elementary Course CAMPBELL R. McCONNELL, Univ. of Nebraska

Discussion:
MYRON L. JOSEPH, Carnegie-Mellon Univ.
RICHARD S. BOWER, Dartmouth Coll.
HENRY H. VILLARD, City Coll. of New York

### THE ENTREPRENEUR
Chairman: ARTHUR H. COLE, Harvard University

The Entrepreneur in Economic Theory, WILLIAM J. BAUMOL, Princeton Univ.

The Entrepreneur in Economic Development, HARVEY LEIBENSTEIN, Harvard Univ.

The Entrepreneur in Economic History, JAMES H. SOLTOW, Michigan State Univ.

Discussion:
EVSEY D. DOMAR, Massachusetts Inst. of Technology
EVERETT E. HAGEN, Massachusetts Inst. of Technology
ALEXANDER GERSCHENKRON, Harvard Univ.

### RECENT ECONOMETRIC ANALYSES IN AGRICULTURE
Chairman: G. JUDGE, Univ. of Illinois

Estimation of Demand for Food and Other Products, Assuming Ordinally Separable Utility, KENNETH BOUTWELL, U.S. Dept. of Defense

A Framework for Policy in the Feed-Livestock Economy, RICHARD L. FELTNER, Michigan State Univ.

A Test of the Hypothesis of Economic Rationality in a Less Developed Economy, PAN A. YOTOPoulos and JOHN WISE, Univ. of Hawaii

Discussion:
GEORGE BRANDOW, Pennsylvania State Univ.
CLIFFORD G. HILDRETH, Univ. of Minnesota
PAUL R. JOHNSON, RAND Corp. and North Carolina State Univ.

### PENSION FUNDS, ISSUES AND ALTERNATIVES
Chairman: ROBERT H. PARKS, Life Insurance Assn. of America

Pension Funds in the American Economy, ROGER MURRAY, Teachers Insurance and Annuity Assn.


Discussion:
DAN McGILL, Univ. of Pennsylvania
JAMES A. ATTWOOD, Equitable Life Assurance Society
8:30 a.m.
SHERATON PARK
Baltimore-Annapolis Rm.
AREUEA

CURRENT RESEARCH IN REAL ESTATE AND LAND ECONOMICS
(Lambda Alpha Dissertation Award Winners 1966 Competition)
Chairman: ROBERT O. HARVEY, Univ. of Connecticut
Location Rent and Journey to Work Patterns in Seattle, HAROLD BRODSKY, Univ. of Washington
The Application of Cost-Benefit Analysis to Urban Renewal: Indianapolis, A Case Study, STEPHEN D. MESSNER, Univ. of Connecticut
Waterway Industrial Site: A Chicago Case Study, DAVID M. SOLZMAN, Univ. of Illinois, Chicago Circle

8:30 a.m.
SHOREHAM
Palladian Rm.
ASA

DEFENSE STATISTICS: QUALITY AND IMPLICATIONS
Chairman: GEORGE A. STEINER, Univ. of California, Los Angeles
The Economic Impact of Defense Programs, Progress and Prospects, LAURENCE E. LYNN, JR. and ROGER F. RIEFLER, U.S. Dept. of Defense
Statistics of Regional and Industrial Defense Impact, ROGER BOLTON, Williams Coll.
Indicators of Military Demand, MURRAY L. WEIDENBAUM, Washington Univ.
Discussion:
WILLIAM H. CHARTENER, Goldman, Sachs & Co.
WILBUR STEGER, CONSAD

8:30 a.m.
SHOREHAM
Executive Rm.
ASA

CONTRIBUTED PAPERS—PHYSICAL AND ENGINEERING SCIENCES—II
Chairman: ROBERT H. RODINE, State Univ. of New York, Buffalo
Confidence Limits for Order Statistics, Exact, Approximate and Graphical, JOHN I. McCool, SKF Industries
Comparisons of Approximations to the Percentage Points of the Sample Coefficient of Variation, BORIS IGLEWICZ, Case Western Reserve Univ. and RAYMOND H. MYERS, Virginia Polytechnic Inst.
Double Sample Plans Where the Acceptance Criterion is the Variance, R. K. ZIEGLER and G. L. TIEJEN, Los Alamos Scientific Lab.
Comparison of ANOVA and Spectral Components of Variance, J. EDWARD JACKSON and WILLIAM H. LAWTON, Eastman Kodak Co.
Treatment of Outlying Observations Among Samples from the Normal Distribution, M. W. COX, Sperry-Utah

8:30 a.m.
SHOREHAM
Tudor Rm.
ASA

FAMILY STATISTICS
Chairman: HENRY S. SHRYOCK, U.S. Bur. of the Census
Statistics Needed to Measure and Project Changes in Marriage and Family Life and Their Demographic Consequences, FREDERICK F. STEPHAN, Princeton Univ. and Population Council
The Role of the Federal Government in the Collection of Family Statistics, ARTHUR A. CAMPELL, National Center for Health Statistics
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| 8:30 a.m. | SHOREHAM Empire Rm. ASA | **COMPUTER SCIENCE AND STATISTICS: A VIEW OF THE BRIDGE**  
Chairman: NANCY R. MANN, Rocketdyne  
Computer Science: Statistical Help Needed, MARIO JUNCOSA, RAND Corp.  
Storage and Retrieval of Data within the P-Stat System, ROALD BUHLER Princeton Univ.  
Computerized Statistics: When Will We Have It?, JOHN W. TUKEY, Princeton Univ. and Bell Telephone Labs.  
Discussion: ARNOLD F. GOODMAN, Douglas Aircraft Co. |
| 8:30 a.m. | SHOREHAM Forum ENAR-WNAR ASA | **BIOMATHEMATICS—I**  
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Some New Aspects of Dynamical Systems Theory as Applied to Problems of Cellular Control, ROBERT ROSEN, State Univ. of New York, Buffalo  
Erodicity of Open Systems, PER-ERIK E. BERGNER, Oak Ridge Inst. of Nuclear Studies  
Application of Boolean Matrices to Biomedical Problems, R. S. LEDLEY, National Biomedical Research Foundation |
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A Technique for Interpreting Higher Order Interactions, M. O. BRAATEN and J. TONZETICH, Duke Univ.  
Difference Equations and Non-linear Regression, J. W. DRANE, Emory Univ.  
A Bayesian Approach to Triangle Testing, P. HUMBAUGH, General Foods Corp.  
On the Performance of Some Two-Sample Tests in Small Samples With and Without Censoring, E. A. GEHAN, Univ. of Texas and D. G. THOMAS, National Cancer Inst.  
Biological Trajectories in Clinical Investigations, ALAN ROSS and G. M. TALLIS, Johns Hopkins Univ. |
| 8:30 a.m. | SHERATON PARK Dover Rm. ES | **MONETARY STUDIES**  
Chairman: HENRY A. LATANE, Univ. of North Carolina  
Deposit Forecasting and Portfolio Behavior, DONALD D. HESTER, Yale Univ. and JAMES L. PIERCE, Board of the Governors of the Federal Reserve System  
The Commercial Loan Market and Credit Rationing, DWIGHT M. JAFFEE, Massachusetts Inst. of Technology  
Portfolio Behavior and the Impact of Monetary and Debt Policy, WILLIAM L. SILBER, New York Univ.  
Discussion: LEONALL ANDERSEN, Federal Reserve Bank of Saint Louis  
EDWARD J. KANE, Boston Coll.  
EDWARD F. RENSHAW, U.S. Bur. of the Budget |
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Chairman: RICHARD ECKAUS, Massachusetts Inst. of Technology
A Model of Cyclical Growth for the Netherlands, C. A. van den BELD, Central Planning Bur., The Hague
A Dynamic Linear Model for Medium-term Central Planning, JOZEF DANCO, Slovak Planning Commission, Bratislava, Czechoslovakia
Input-Output Analysis and Interrelational Income Multipliers as a Matrix, KENICHI MIYAZAWA, Hitotsubashi Univ., Japan
Discussion:
ARTHUR S. GOLDBERGER, Univ. of Wisconsin
JOHN M. MONTIAS, Yale Univ.
WILLIAM BRANSON, Princeton Univ.

MANPOWER PLANNING—PRIVATE AND PUBLIC
Chairman: FRANK H. CASSELL, Inland Steel Co.
Employability Development—Linking Private Enterprise and Government, JOSEPH F. MURRAY, RCA Service Corp.
The Job Market: Filling the Information Gap, NORMAN MEDVIN, U.S. Dept. of Labor
Inputs with Outcomes—Community Manpower Planning, ARTHUR P. SOLOMON, Harvard Univ.

NONPARAMETRIC AND ROBUST METHODS
Chairman: GOTTFRIED E. NOETHER, Boston Univ.
An Example of Large Discrepancy Between Measures of Asymptotic Efficiency of Tests, R. K. TSUTAKAWA, Univ. of Chicago
Some Recent Developments in the Theory of Robust Estimation, PETER J. BICKEL, Univ. of California, Berkeley
Nonparametric Multiple Comparisons, P. K. SEN, Univ. of North Carolina

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(8:41) On the Sampling Distribution of the Multiple Correlation Coefficient, V. HODGSON, Florida State Univ.
(8:52) Tables of Quadratic Forms in Normal Variables, N. JOHNSON, S. KOTZ, Univ. of North Carolina, Temple Univ.
(9:03) Distribution Free Sufficiency in Sampling from Finite Populations, B. KALE, Univ. of Manitoba
(9:14) Sets of Three Studentized Observations, A. LAURENT, Wayne State Univ.
(9:25) Distribution Free Procedures for Testing a Possible Change in Continuous Distribution Law at an Unknown Time Point, S. LEE, Kansas State Univ.
(9:36) A Bivariate Distribution, S. PATIL, Tennessee Technological Univ.
(9:47) The Modified Compound Poisson Process with Normal Compounding, S. PRESS, Univ. of Chicago
(9:58) Linear Functions of Order Statistics, S. STIGLER, Univ. of Wisconsin
(10:09) A Characterization for the Linear Exponential Family, J. WANI, Saint Mary's Univ.
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| 9:00 a.m. | WASH.-HILTON Ballroom—East Professional Dialogue AMA | **MARKETING IN LOW-INCOME NEIGHBORHOODS**  
Moderator: CHARLES S. GOODMAN, Univ. of Pennsylvania  
Position Papers:  
DAVID CAPLOVITZ, Columbia Univ.  
GEORGE ROBINSON, Business and Defense Services Admin.  
WILFORD L. WHITE, Howard Univ. |
| 9:00 a.m. | WASH.-HILTON Ballroom—East Professional Dialogue AMA | **GRADUATE EDUCATION IN MARKETING**  
Moderator: ARNOLD CORBIN, New York Univ.  
Position Papers:  
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SEYMOUR BARANOFF, Pace Coll.  
CLAIRE CORBIN, Fordham Univ. |
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Channel Management Hypotheses from Organization Theory, LOUIS W. STERN, Ohio State Univ. and J. L. HESKETT, Howard Univ.  
Behavioral Aspects of Channel Member Interaction, DONALD H. GRANBOIS, Indiana Univ. and FREDERICK D. STURDIVANT, Univ. of Texas  
Basic Problems in the Study of Channels, STANLEY F. STASCH, Northwestern Univ. and LOUIS P. BUCKLIN, Univ. of California, Berkeley |
| 9:00 a.m. | WASH.-HILTON Ballroom—East Professional Dialogue AMA | **BUSINESS EDUCATION FOR INTERNATIONAL MARKETING**  
Moderator: JAC L. GOLDSBUCK, DePaul Univ. |
| 9:00 a.m. | WASH.-HILTON Ballroom—East Professional Dialogue AMA | **MARKETING APPLICATIONS TO INPUT/OUTPUT ANALYSIS**  
Moderator: MARION E. SHANK, Goodyear Tire & Rubber Co.  
Position Papers:  
JOEL FUERST, Celanese Corp.  
RONALD KUTSCHER, U.S. Dept. of Labor  
ROBERT JOHNSON, Deputy to Asst. Secretary of Air Force Manpower |
| 9:00 a.m. | WASH.-HILTON Jefferson—West Professional Dialogue AMA | **DIFFUSION OF INNOVATION VIEWED AS AN INFORMATION SYSTEM**  
Moderator: PERSIS E. ROCKWOOD, Florida State Univ. |
| 9:00 a.m. | WASH.-HILTON Jefferson—East Professional Dialogue AMA | **THE ROLE OF GOVERNMENT MARKETING IN THE CURRICULUM**  
Moderators:  
BURTON H. MARCUS, Univ. of Southern California and SALVATORE F. DIVITA, IBM Corp.  
Position Papers:  
BURTON H. MARCUS, Univ. of Southern California |
FRIDAY / 101

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Lincoln—West
Professional Dialogue
AMA

MARKETING AND PUBLIC POLICY
Moderator: ROBERT L. CLEWETT, Pennsylvania State Univ.
Position Papers:
Marketing and the Entrepreneurial Role of Government, C. MERLE CRAWFORD, Univ. of Michigan
Marketing and the Facilitating Role of Government, JACOB E. KATZ, U.S. Dept. of Commerce
Marketing and the Regulatory Role of Government, MARSHALL C. HOWARD, Univ. of Massachusetts

9:00 a.m.
WASH.-HILTON
Lincoln—East
Professional Dialogue
AMA

ROLE OF COMPUTER SCIENCE IN MARKETING EDUCATION
Moderator: LAWRENCE X. TARPEY, Univ. of Kentucky
Position Papers:
DONALD S. TULL, Univ. of Oregon
KEITH K. COX, Univ. of Houston
CHARLES S. MAYER, Dartmouth Coll.

9:00 a.m.
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Crystal—West
Professional Dialogue
AMA

MARKETING AND THE FEDERAL TRADE COMMISSION
Moderators:
DWIGHT L. GENTRY, Univ. of Maryland
FRANK G. COOLSEN, Federal Trade Commission
Position Papers:
Mergers and Market Structure, WILLARD F. MUELLER, Federal Trade Commission
Mergers From the Business Point of View, IRVING LIPKOWITZ, Reynolds Metals Co.
Price Discrimination and the Robinson-Patman Act, ROBERT A. LYNN, Univ. of Missouri
Advertising and Consumer Protection, DONALD J. WILKINS, American Advertising Federation

9:00 a.m.
WASH.-HILTON
Crystal—East
Professional Dialogue
AMA

PERSONAL SELLING AND THE CONCEPTUAL ENVIRONMENT
Moderators:
JAMES H. BEARDEN, East Carolina Coll.
EDWIN C. GREIF, Univ. of Vermont
Position Papers:
WENDELL SMITH, Marketing Science Inst.
W. J. E. CRISSEY, Michigan State Univ.
PATRICK J. ROBINSON, Marketing Science Inst.
ROBERT LINNEMAN, Temple Univ.

9:00 a.m.
WASH.-HILTON
Military Rm.
Professional Dialogue
AMA

MARKETING COSTS AND PROFITS BY SEGMENT OF THE BUSINESS
Moderators:
FRANK H. MOSSMAN, Michigan State Univ.
LEO G. ERICKSON, Michigan State Univ.
Position Papers:
Revenue Standards, LEO G. ERICKSON, Michigan State Univ.
Using Cost Data, ROBERT B. MINER, Ohio State Univ.
Future Developments in Marketing Cost and Profit Analysis, CHARLES H. SEVIN, U.S. Dept. of Commerce
Relationship Between the Accountant and the User of Accounting Information, MICHAEL SCHIFF, New York Univ.
AMA STUDENT CHAPTER/INDUSTRY RELATIONS
Moderator: ERIC S. STEIN, Chicago City Coll.
Position Papers:
ROWE M. MEADOR, North Texas State Univ.
ROBERT L. KING, Virginia Polytechnic Inst.
PHILIP R. CATEORA, Univ. of Colorado

MARKETING AND THE DEVELOPMENT PROCESS
Moderator: MARTIN STOLLER, U.S. Dept. of State
Position Papers:
RICHARD H. HOLTON, Univ. of California, Berkeley
HAROLD F. BREIMYER, Univ. of Missouri
LEE FLETCHER, Iowa State Univ.
VINCENT FARACE, Michigan State Univ.
HAROLD RILEY, Michigan State Univ.
CHARLES C. SLATER, Michigan State Univ.

ROUND TABLE ON THE SCIENTIFIC-MILITARY-INDUSTRIAL COMPLEX AND THE NEW INDUSTRIAL STATE
Chairman: EDWARD S. MASON, Harvard Univ.
Panel:
WALTER ADAMS, Michigan State Univ.
GEORGE J. STIGLER, Univ. of Chicago
H. L. NIEBURG, Univ. of Wisconsin, Milwaukee
SEYMOUR MELMAN, Columbia Univ.

ROUND TABLE ON THE GRANTS ECONOMY
Chairman: MARSHALL A. ROBINSON, Ford Foundation
Panel:
KENNETH E. BOULDING, Univ. of Colorado
JAMES M. BUCHANAN, Univ. of Virginia
JOHN R. MEYER, Harvard Univ.
JOSEPH A. PECHMAN, Brookings Inst.

THE OUTLOOK FOR THE MONEY AND CAPITAL MARKETS
Chairman: JAMES J. O'LEARY, Lionel D. Edie & Co.
Panel:
Federal Reserve Policy and the Money Market, ROY L. REIERSON, Bankers Trust Co.
The Corporate Bond Market, GEORGE T. CONKLIN, JR., Guardian Life Insurance Co. of America
The Residential Mortgage Market, SAUL B. KLAMAN, National Assn. of Mutual Savings Banks
Government Securities, ROBERT H. BETHKE, Discount Corp. of America
Equities, ROGER F. MURRAY, Teachers Insurance and Annuity Assn.

REAL ESTATE DECISION-MAKING AND URBAN DESIGN
Chairman: HERMAN G. BERKMAN, New York Univ.
The Role of Urban Design in Real Estate Decision-Making, ROBERT KEVIN BROWN, Univ. of South Carolina
Community Development and the Economics of Locational Decisions, R. Bruce Ricks, Univ. of California, Los Angeles
Discussion:
MAX R. BLOOM, Syracuse Univ.
BAYARD O. WHEELER, Univ. of Washington

10:30 a.m.
SHOREHAM
Directors Rm.
ASA

COMMITTEE ON SOCIAL INSURANCE STATISTICS AND TRAINING—MEETING
Chairman: NATHAN MORRISON, Associated Hospital Service of N. Y.

10:30 a.m.
SHOREHAM
Tudor Rm.
ASA

COMPUTER-BASED STATISTICAL SYSTEMS
Chairman: M. H. SCHWARTZ, First National City Bank
The Computer, the Analyst, and Statistics, JAMES G. RUDE, Pillsbury, Inc.
Computer-Based Current Statistical Analysis, T. J. VANDER NOOT, JR., Economic Council of Canada
Discussion:
STEPHEN TAYLOR, Board of Governors of the Federal Reserve System
IRWIN KABUS, American Can Co.

10:30 a.m.
SHOREHAM
Diplomat Rm.
ASA

TECHNOMETRICS SESSION
Chairman: FRED C. LEONE, Univ. of Iowa, Technometrics Editor
Estimation of Error Rates in Discriminant Analysis, PETER A. LACHENBRUCH, Univ. of North Carolina and M. RAY MICKEY, Univ. of California, Los Angeles
Multiple Classification Analysis for Arbitrary Experimental Arrangements, H. E. BRADLEY, Upjohn Co.
Discussion:
WILLIAM G. COCHRAN, Harvard Univ.
JOHN GORMAN, American Oil Co.

10:30 a.m.
SHOREHAM
Empire Rm.
ASA
IRRA

MEASURES OF MANPOWER
Chairman: DONALD CULLEN, Cornell Univ.
Manpower Analysis in Construction: New Methods and Measures, D. QUINN MILLS, Harvard Univ.
Longitudinal Analysis in Occupational Transfer: Statistical and Theoretical Problems, PAUL A. WEINSTEIN and EUGENE JURKOWITZ, Univ. of Maryland
Discussion:
T. ALDRICH FINEGAN, Vanderbilt Univ.
FELICIAN FOLTMAN, Cornell Univ.

10:30 a.m.
SHOREHAM
Heritage Rm.
ENAR-WNAR
ASA

CONTRIBUTED PAPERS—BIOMETRICS—II
Chairman: MAVIS B. CARROLL, General Foods Corp.
Some Tests for the Hypothesis, in Sensitivity Testing when Using the Up-Down Method, that there is No Change in Threshold Values Due to Subjection to a Stimulus, A. E. ECONOMOS, TRW Systems, Inc.
A Type of Statistical Analysis Useful in Experiments Involving Drugs with Transient Effects, G. G. KOCH, Univ. of North Carolina

Some Uses and Misuses of Statistics in Analyzing Vector-cardiogram Directions, J. LIEBMAN and T. DOWNS, Case Western Reserve Univ.

A Comparison of Successive Screening and Discriminant Function Techniques in Medical Taxonomy, S. FELDMAN, D. F. KLEIN and G. HONIGFELD, Hillside Hospital

Stochastic Models of Sexually Reproducing Populations of Helminthic Parasites, MORLEY K. LEYTON, Univ. of Washington.

The Optimum Dose of Toxic Drugs, JOHN C. BAILAR, III, National Cancer Inst.

Biomathematics—II
Chairman: A. BARTHOLOMAY, North Carolina State Univ.

Transformation of Thermodynamic Co-ordinates of the Onsager Form, H. R. HIRSCH, Univ. of Kentucky and C. C. PECK, Transylvania Univ.

The Information Boundaries of DNA, LILA GATLIN, Bryn Mawr Coll.

Kinetics of Polypeptide Denaturation, D. A. McQUARRIE, J. P. McTAGUE and H. REISS, North American Aviation Science Center

Arterial Blood Flow—Modeler’s Joy and Hazard, ROBERT EVANS, Univ. of Minnesota

Studies in Wage-Price Behavior
Chairman: FRANK BRECHLING, Northwestern Univ.


On a Theory of Money Wage Dynamics and its Implications for the Phillips Curve, EDMUND S. PHELPS, Univ. of Pennsylvania

On the Interindustry Wage and Hours Structure, SHERWIN ROSEN, Univ. of Rochester and National Bur. of Economic Research

Discussion:
MARTIN BRONFENBRENNER, Carnegie-Mellon Univ.
LEONARD RAPPING, Carnegie-Mellon Univ.
NORMAN SIMLER, Univ. of Minnesota

Studies in Optimal Policy
Chairman: KELVIN LANCASTER, Columbia Univ.

The Optimal Program of Research and Its Achievement in a Cournot Economy, LARRY E. RUFF, Univ. of California, San Diego

The Optimal Life of a Patent, WILLIAM D. NORDHAUS, Yale Univ.

Optimal Taxation and Public Investment, PETER DIAMOND, Massachusetts Ints. of Technology and JAMES MIRRLIES, Cambridge Univ.

Discussion:
KARL SHELL, Massachusetts Inst. of Technology
RICHARD NELSON, RAND Corp.
ROBERT DORFMAN, Harvard Univ.

The Role of Simulations in Studies of Econometric Models
Chairman: DONALD BEAR, Univ. of California, San Diego

Solving a Non-linear Econometric Model by the Gauss-Seidel Iterative Method, MORRIS NORMAN, Univ. of California, Santa Barbara
A Technique for the Sensitivity Analysis of Macroeconomic Models, WILLIAM E. McFARLAND, Univ. of Michigan

A Correspondence Principle for Simultaneous Equation Models, FRANKLIN M. FISHER, Massachusetts Inst. of Technology

Discussion:
GREGORY CHOW, IBM Corp.
MICHAEL EVANS, Univ. of Pennsylvania
PHOEBUS J. DHRYMES, Univ. of Pennsylvania

10:30 a.m.
STATLER-HILTON
So. American Rm.
IRRA

MANPOWER AND ITS MOTIVATION
Chairman: ROBERT L. KAHN, Univ. of Michigan

Job Holding Among Negro Youth, NATHAN S. CAPLAN, Univ. of Michigan

Motivation of the Affluent, ROBIN BARLOW, Univ. of Michigan

Value, Expectancy, and Mythology: Some Unfulfilled Assumptions of Motivation Theory, ROBERT L. KAHN, Univ. of Michigan

Discussion: HYMAN KORNBLUH, Univ. of Michigan and Wayne State Univ.

10:30 a.m.
SHOREHAM
Palladian Rm.
IMS

WALD LECTURE—III
Chairman: R. R. BAHADUR, Univ. of Chicago

Recent Results in Parametric Large Sample Theory III: Large-Deviation Theory of Statistical Tests, WASSILY Hoeffding, Univ. of North Carolina

10:30 a.m.
SHERATON PARK
Arlington Rm.
ODE

OMICRON DELTA EPSILON 3rd BIENNIAL CONVENTION MEETING
Chairman: DANIEL E. DIAMOND, New York Univ.

John R. Commons Lecture, ARTHUR SMITHIES, Harvard Univ.

Progress of the Economics Honor Society; An Input-Output Analysis, ERVIN K. ZINGLER, Univ. of Houston and ALAN A. BROWN, Univ. of Southern California

Progress of the Economics Honor Society; A Cost-Benefit Analysis, E. BRYANT PHILLIPS, Univ. of Southern California

11:30 a.m.
SHOREHAM
Palladian Rm.
IMS

CONTRIBUTED PAPERS—VIII
Chairman: To be announced


(12:08) Inverse Cumulative Approximation to Simulation and Order Statistic Moment Evaluation, M. TARTER, Univ. of Michigan

11:45 a.m.
WASH.-HILTON
International Ballroom—Center
AMA

CHANGING MARKETING SYSTEMS—FUTURE PROSPECTS (Closing Plenary Session and Luncheon) (Fee event)
President-Elect's Luncheon
Chairman: VICTOR P. BUELL, American Standard, President-Elect, AMA


Corporate-Marketing Interfaces: Future Prospects, THOMAS A. STAUDENT, Michigan State Univ.

The Economic Outlook for 1968—Luncheon (Fee event)
Chairman: Martin R. Gainsbrugh, National Industrial Conference Board
The World Economic Outlook, Milton Gilbert, Bank for International Settlements

Annual Business Meeting (All Members of the Region Invited)
Chairman: Paul Meier, Univ. of Chicago, Regional President

Presidential Luncheon (Fee event)
Chairman: George P. Shultz, Univ. of Chicago

Macro-Micro Linkages in the Rural Economy
Chairman: James Martin, Virginia Polytechnic Inst.
Micro Goal Functions and Economic Planning, H. O. Carter and Douglas Cocks, Univ. of California, Davis
Discussant: Kenneth R. Tefertiller, Univ. of Florida
Industrial Development and Incomes of Farm Families, W. Keith Bryant and J. Francis O’Connor, Univ. of Minnesota
Discussant: Luther Tweeten, Oklahoma State Univ.

Structural Changes in Mortgage Fund Flows
Chairman: James E. Gillies, York Univ.
Institutional Aspects of Inter-Regional Mortgage Lending, Albert C. Smith, Ohio State Univ.
Private Secondary Market Facilities, Oliver H. Jones, American Univ.
Some Relationships Between Assets and Liabilities of Thrift Institutions, Sherman Maisel, Board of Governors of the Federal Reserve System
Discussion:
Arthur M. Weimer, Indiana Univ.
Saul Klaman, National Assn. of Mutual Savings Banks
Preston Martin, Univ. of Southern California

Model Building
Chairman: W. G. Hunter, Univ. of Wisconsin
Choosing a Representative Sample for Model Building, Martin B. Wilk and J. D. Gabbe, Bell Telephone Labs
An Iterative Method for Obtaining Weights in a Weighted Regression Analysis, W. J. Hill, Allied Chemical Corp., and G. E. P. Box, Univ. of Wisconsin
Evolutionary Model Building, Kent H. Quisel, E. I. du Pont de Nemours & Co.
Recent Developments in Model Simplification Through Transformation, Frank Sinibaldi, Truman L. Koehler and Arthur H. Bobis, American Cyanamid Co.
MORE LIGHT ON THE DEFINITION OF POVERTY
Chairman: MARGARET E. MARTIN, U. S. Office of Statistical Standards
Consequences of Alternative Definitions of Poverty, HAROLD WATTS, Univ. of Wisconsin
Formulas for Income Maintenance: Their Distributional Impact, MARTIN DAVID, Univ. of Wisconsin and JANE LEUTHOLD, Univ. of Illinois
Discussion:
BENJAMIN OKNER, Brookings Inst.
WILLIAM G. GRIGSBY, Univ. of Pennsylvania

TRAINING OF STATISTICAL PERSONNEL FOR THE STATE
Chairman: NATHAN MORRISON, Associated Hospital Service of New York
Training Needs of New York State Researchers, HERBERT ALFASSO, New York State Div. of the Budget
Training of Statistical Personnel for State Health Departments, MONROE LERNER, Johns Hopkins Univ.
Training for Statistical Personnel in State Service, GEORGE S. ROCHE, California Dept. of Employment

THE DEVELOPMENT OF INTERNATIONAL BUSINESS PROGRAMS
Speaker: DOUGLAS F. LAMONT, Univ. of Alabama
Discussant: PHILLIP D. GRUB, George Washington Univ.

STATISTICS IN THE DRUG INDUSTRY—I: METHODOLOGY FOR TESTING AND CLINICAL EVALUATION OF DRUGS
Chairman: BYRON W. BROWN, JR., Univ. of Minnesota
Biological Applications of Principal Components, CHARLES E. REDMAN, Eli Lilly & Co.
A Useful Technique for Assessing Severity of Illness in Human Experimental Coe Virus Infection, J. R. ASSENZO and MARIE HENNINGER, Upjohn Co.
On Selecting One of Two Medical Treatments when Responses are Dichotomous, PAUL CANNER, Univ. of Maryland

ECONOMETRIC MODELS, THEIR PROBLEMS AND USEFULNESS
Chairman: JACOB MARSCHALK, Univ. of California, Los Angeles
Pitfalls in Financial Model Building, WILLIAM C. BRAINARD and JAMES TOBIN, Yale Univ.
The FRB-MIT Econometric Model: Its Special Features, ROBERT H. RASCHE, Univ. of Pennsylvania and HAROLD T. SHAPIRO, Univ. of Michigan
Discussion:
CARL F. CHRIST, Johns Hopkins Univ.
JOHN V. LINTNER, Harvard Univ.
STUDIES IN ECONOMIC THEORY
Chairman: ROBERT DORFMAN, Harvard Univ.
The Determinants of Excess Capacity, KENNETH R. SMITH, Northwestern Univ.
Price Distortion and Economic Welfare, EDWARD FOSTER and HUGO SONNENSCHEIN, Univ. of Minnesota
Discussion:
CHARLES BISCHOFF, Yale Univ.
FRED WESTFIELD, Vanderbilt Univ.
ANTHONY BLACKBURN, Harvard Univ.

ECONOMETRIC STUDIES
Chairman: DANIEL ORR, Univ. of California, San Diego
Market Power and Relative Prices in the Ethical Drug Industry, HUGH D. WALKER, Indiana Univ.
Supply and Dynamics in Estimating Cross-Elasticity Relations, G. S. TOLLEY and YI WANG, Univ. of Chicago
A Cross-Country Comparison of Consumer Expenditure Patterns, ARTHUR S. GOLDBERGER and THEODORE GAMALETOS, Univ. of Wisconsin
Discussion:
WILLIAM COMANOR, Harvard Univ.
RALPH BEALS, Amherst Coll.
JEAN CROCKETT, Univ. of Pennsylvania

OPTIMAL DESIGN AND ESTIMATION
Chairman: JEROME SACKS, Northwestern Univ.
Optimal Designs on Chebyshev Points, W. J. STUDDEN, Purdue Univ.
Methods of Finding Optimal Regression Designs, P. HOEL, Univ. of California, Los Angeles
A Class of Estimators Asymptotically Efficient Under General Conditions, L. WEISS, Cornell Univ.

CONTRIBUTED PAPERS—IX
Chairman: R. SYSKI, Univ. of Maryland
(2:00) Stochastic Point Processes on Topological Spaces, R. AGNEW, Northwestern Univ.
(2:11) Ergodic Theory with Recurrent Weights, K. BERK, Northwestern Univ.
(2:22) The Two-Armed Bandit Problem with Finite Memory, T. COVER, Stanford Univ.
(2:33) Weak Approachability in a Two Person Game, T. HOU, Univ. of California, Berkeley
(2:44) A Monotone Binomial Analogue of Ramanujan’s Equation, K. JOGDEO, New York Univ. and S. SAMUELS, Univ. of California, Santa Cruz
(2:55) Connectivity in Random Graphs and Digraphs, J. NAUS, L. RABINOWITZ, City Coll. of New York, Rutgers Univ.
(3:06) A Mathematical Setting for the Inference Problem (Preliminary Report), C. RANDALL, Univ. of Massachusetts
(3:17) On a Characterization of Symmetric Stable Processes with Finite Mean, B. RAO, Univ. of California, Berkeley
(3:28) Toward Assumption-Free Inference in Time-Sequence Data Analysis, R. RIFFENBURGH and R. LAVOIE, Univ. of Connecticut
(3:39) Probabilities of Conditional Events (Preliminary Report), G. SCHAY, JR., Univ. of Massachusetts

TECHNOLOGICAL AND ECONOMIC IMPLICATIONS OF 3 PERCENT GROWTH
(Joint session with the Society for the History of Technology)
Chairman: ROBERT L. HEILBRONER, New Sch. for Social Research
Technological Possibilities for 3 Percent Growth, MICHAEL MICHAILIS, Arthur D. Little Co.
Economic Implications for Consumption of 3 Percent Growth, HENRY H. VILLARD, City Coll. of New York
Discussion:
VICTOR FUCHS, Ford Foundation
JOSEPH L. FISHER, Resources for the Future, Inc.
BEN B. SELIGMAN, Univ. of Massachusetts

INTERNATIONAL EXPERIENCE: U.S. CONTRIBUTIONS AND CONTRIBUTIONS TO THE U.S.
Chairman: SOLOMON BARKIN, OECD
Implications of European Manpower Programs for the United States, JACK STIEBER, Michigan State Univ.
Lessons for the United States from Western European Experience with the Hard-to-Place, BEATRICE G. REUBENS, Columbia Univ.
Applicability of United States Manpower Experience to Developing Countries, EDGAR C. McVOY, U.S. Dept. of Labor
Discussion:
BRUCE HERRICK, Univ. of California, Los Angeles
ABRAHAM SIEGEL, Massachusetts Inst. of Technology
SYLVIA OSTRY, Dominion Bur. of Statistics
MEREDITH B. GIVENS, Washington, D. C.

INVITED PAPERS
Chairman: JOHN H. G. CRISPO, Univ. of Toronto
The Supply of Self-Employed: A Study of Retail Managers, IRVING LEVESON, New York City Health Services Admin.
Effects of Mass Layoffs on Local Unemployment Rates, TRACY W. MURRAY, Univ. of New Mexico and DALE W. BERRY, Kirchner Associates
Negro Workers in the Mississippi Delta: Problems of Displacement and Adjustment, MICHAEL PIORE, Massachusetts Inst. of Technology
The Economics of Privately Negotiated Technological Change Provisions, DAVID P. ROSS, Canada Dept. of Labor
Discussion:
N. M. MELTZ, Univ. of Toronto
ERNST W. STROMSDORFER, Pennsylvania State Univ.

HOW COMPANIES MAKE INTERNATIONAL DECISIONS
Chairman: LEE C. NEHRT, Indiana Univ.
Panel:
JAMES M. MURRAY, Murray Associates
ELLIOTT HAYNES, Business International
W. DICKERSON HOGUE, Indiana University
CONTRIBUTED PAPERS—BUSINESS AND ECONOMIC STATISTICS—II
Chairman: JOHN I. GRIFFIN, City Coll. of New York
A Comprehensive Survey in Quantitative Methods—A Reaction by
Business Economists, P. JOHN LYMBEROPOULOS, Univ. of Colorado
A Common Framework for the Index-Number Varieties, IRVING
H. SIEGEL, W. E. Upjohn Inst. for Employment Research
Analysis of the Size Distribution of Income and Expenditures in
Rural South Vietnam, ROBERT H. STROUP, Univ. of Kentucky and
RICHARD G. MARCIS, Bowling Green State Univ.
The Taxation of Decedents' Unrealized Capital Gains, BERNARD
OKUN, Makerere Univ. Coll.

CONTRIBUTED PAPERS—TRAINING
Chairman: To be announced
Teaching Graduate Courses in Statistics in Mexico, FOSTER B.
CADY and HENRY TUCKER, Iowa State Univ.
Some Uses of Time-Sharing Computers in Statistical Teaching and
Consultation, GERALD J. HAHN and SAMUEL S. SHAPIRO, General
Electric Co.
The Teaching of Statistics in Business Schools: 1967, EDWIN B.
COX, Boston Univ.

REGRESSION TECHNIQUES
Chairman: FRANKLIN A. GRAYBILL, Colorado State Univ.
Applications of Pooling and Outlier Methodology for Regressions,
JOHN P. JOHNSON and T. A. BANCROFT, Iowa State Univ.
Regression and Design of Singular Experiments, SHELEYAHU
ZACKS, Kansas State Univ.
Multivariate Normal Regression Analysis with Missing Observa-
tions, R. R. HOCKING and W. B. SMITH, Texas A & M Univ.

FEDERAL STATISTICS—MAJOR DEVELOPMENTS
Chairman: GEOFFREY H. MOORE, National Bur. of Economic Re-
search
Approaching Crossroads in the Development of Federal Statistics,
RAYMOND T. BOWMAN, U. S. Office of Statistical Standards

INTERNATIONAL BUSINESS: A CONCEPTUAL FRAMEWORK
Speaker: JOHN FAYERWEATHER, New York Univ.
Discussant: RICHARD D. ROBINSON, Massachusetts Inst. of Tech-
nology

STATISTICS IN THE DRUG INDUSTRY—II: ETHICAL CONSIDERA-
TIONS IN CLINICAL TRIALS
Moderator: IRWIN D. J. BROSS, Roswell Park Memorial Inst.
Panel:
MARVIN A. SCHNEIDERMAN, National Cancer Inst.
HERBERT LEY, Food & Drug Admin.
EMIL FREI, M. D. Anderson Hospital & Tumor Inst.
JOHN SILARD, Rauh & Silard
CONTRIBUTED PAPERS—BIOMETRICS—III

Chairman: J. P. COMER, Procter & Gamble Co.

Sampling Variances and Covariances of Measures of Variation and Covariation in Hierarchically Classified Data, D. L. HARRIS, DeKalb Agricultural Assn.

The Addition Theorem and Analysis of Variance in Case of Correlated Nominal Variates, C. HORACE HAMILTON, Univ. of North Carolina

A Competitive Model for Randomly Dividing an Interval: An Approach to the Analysis of Proportions, R. J. CONNOR and J. E. MOSIMANN, National Inst. of Health


EMPIRICAL STUDIES IN CONSUMER BEHAVIOR

Chairman: MARGARET REID, Univ. of Chicago

A Cohort Analysis of the Long-Term Saving Function, EUGENE R. MELANDER, Pennsylvania State Univ. and E. SCOTT MAYNES, Univ. of Minnesota

The Permanent Income Theory and the Distribution of Wealth, THOMAS MAYER, Univ. of California, Davis

Measurement of Demand Parameters under a Dynamic Quadratic Preference Function, ALAIN DE JANVRY, Univ. of California, Berkeley, JURG BIERI, Univ. of California, Davis and GEORGE M. KUZNETS, Univ. of California, Berkeley

Discussion:
RICHARD ROSETT, Univ. of Rochester
ROBERT FERBER, Univ. of Illinois
RICHARD W. PARKS, Univ. of Chicago

DECISION THEORY

Chairman: LEO KATZ, Michigan State Univ.

Asymptotic Results in Sequential Decision Theory, GARY LORDEN, Northwestern Univ.


CONTRIBUTED PAPERS—X

Chairman: To be announced

(4:00) "Renewal" Limit Theorems for Excessive Functions of Semi-Markov Chains on Arbitrary Spaces, E. CINLAR, Northwestern Univ.

(4:11) Stochastically Monotone Markov Chains, D. DALEY, Univ. of Washington

(4:22) Some Non-Regular Functions of Finite Markov Chains, S. DHARMADHIKARI, Michigan State Univ.


(4:44) Method of Images in the Plane, R. MENSING and H. DAVID Iowa State Univ.

(4:55) A One Dimensional Random Space-Filling Problem, MULLOOLY, National Inst. of Health
(5:17) Non-Discounted Denumerable Markovian Decision Models, S. ROSS, Stanford Univ.

4:00 p.m.
SHOREHAM
Board Rm.

BIOMETRY TRAINING PROGRAM DIRECTORS—MEETING (By invitation) (continued from Wednesday session)
Chairman: FELIX E. MOORE, Univ. of Michigan

4:15 p.m.
SHERATON PARK
Baltimore-Annoplis Rm.
AREUEA

THE RELATIONSHIP OF AREUEA TO PROFESSIONAL REAL ESTATE ASSOCIATIONS
Chairman: DAVID T. ROWLANDS, Univ. of Pennsylvania, President, AREUEA
Panel:
GEORGE F. BLOOM, Indiana Univ.
GEORGE L. NOAH, Univ. of Oklahoma
MAURY SELDIN, American Univ.
DONALD E. SNYDER, Society of Real Estate Appraisers

4:30 p.m.
SHERATON PARK
Wilmington Rm.

WALRAS-BOWLEY LECTURE
Chairman: LIONEL McKENZIE, Univ. of Rochester
Competitive Equilibrium and Private Ownership, HUKUKANE NIKAIDO, Osaka Univ.

4:45 p.m.
SHERATON PARK
Frederick Rm.

BUSINESS MEETING

5:00 p.m.
SHERATON PARK
So. Cotillion Rm.

ANNUAL MEMBERSHIP MEETING

5:00 p.m.
SHERATON PARK
Arlington Rm.

UNIVERSITY OF CHICAGO ECONOMICS DEPARTMENT—COCKTAIL PARTY

5:00 p.m.
SHERATON PARK
Franklin Rm.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY ECONOMICS DEPARTMENT—COCKTAIL PARTY

5:00 p.m.
SHERATON PARK
So. Cotillion Rm.

UNIVERSITY OF PENNSYLVANIA ECONOMICS DEPARTMENT—COCKTAIL PARTY

5:00 p.m.
SHERATON PARK
Vanderbilt Rm.

ANNUAL MEETING AND ELECTION OF OFFICERS
Presidential Address, DAVID T. ROWLANDS, Univ. of Pennsylvania, President, AREUEA
5:30 p.m.  SHERATON PARK
            Adams-Hamilton Rm.
            AEIB

5:30 p.m.  SHERATON PARK
            Frederick Rm.
            AREUEA

PRESIDENTIAL ADDRESS
Chairman: ARTHUR F. BURNS, Columbia Univ.
The Role of Monetary Policy, MILTON FRIEDMAN, Univ. of Chicago, President, AEA

8:00 p.m.  SHERATON PARK
            Sheraton Hall
            AEA

PRESIDENTIAL ADDRESS
Chairman: FREDERICK F. STEPHAN, Princeton Univ., Past President, ASA
Presentation of New Fellows: CONRAD TAEUBER, U. S. Bur. of Census, Chairman, Committee on Fellows and Honorary Members, ASA
Speaker: FREDERICK MOSTELLER, Harvard Univ., President, ASA

9:15 p.m.  SHERATON PARK
            Delaware Suite
            AEA

BUSINESS MEETING

10:00 p.m.  SHOREHAM
            Regency Rm.
            ASA
            ENAR-WNAR
            IMS

INFORMAL PARTY (Immediately following the Presidential Address (Fee event)
All Societies are invited
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REAL ESTATE ECONOMICS
An Introduction to Urban Land Use
Robert Kevin Brown
388 pages, 1965, $7.95

Houghton Mifflin
Boston / Atlanta / Dallas / Geneva, Ill. / New York / Palo Alto
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Surveys of Economic Theory

$1.25 each

IILS Publications

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J. Stieber, editor 1966 500 pp. $16.00

Industrial Relations and Economic Development
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Automation on Shipboard
G. J. Bonwick, editor 1967 144 pp. $6.00

Collective Bargaining in African Countries
B. C. Roberts and L. G. de Bellecombe 1967 178 pp. $7.25

The Labour Market and Inflation

IEA Publications

Capital Movements and Economic Development
Price Formation in Various Economies
D. C. Hague, editor 1967 328 pp. $8.50

Activity Analysis in the Theory of Growth and Planning
E. Malinvaud and M. O. L. Bacharach, editors 1967 352 pp. $12.50

The Distribution of National Income
J. Marchal and B. Ducros, editors Spring 1968 776 pp. $18.00 tent.

The Economic Problems of Housing
A. A. Nevitt, editor 1967 352 pp. $10.00

The Economics of Education
E. A. G. Robinson, editor 1966 792 pp. $16.00

Also of interest . . .

Impact of Western Man
Europe's Role in the World Economy 1750-1960
W. Woodruff 1966 400 pp. $6.00

Macro-Economic Theory
A Mathematical Treatment
R. G. D. Allen 1967 432 pp. $10.00

On display at Booth # 71

College Department
ST. MARTIN'S PRESS
175 Fifth Avenue New York NY 10010
Statistical Methods:  
A Problem-Solving Approach  

Foundations of Psychological Research: Statistics, Methodology, and Measurement  
Kenneth H. Kurtz, State University of New York at Buffalo—presents the basic concepts of statistics, philosophy of science, and measurement theory as they apply to research in psychology. 1965, 6 x 9, 402 pp.

Fundamentals of Experimental Design  
Jerome L. Myers, University of Massachusetts—emphasizes an understanding of the basic principles of design and analysis with detailed development of computational formulas. 1966, 6 x 9 1/4, 407 pp.

Concepts and Methods of Experimental Statistics  
H. C. Fryer, Kansas State University—gives an overview of experimental statistics including such topics as statistical populations, sampling distributions, probability, testing hypotheses, and estimation. 1966, 6 x 9, 602 pp. 40 pp. of Tables.

A Guide to Educational Research  
David R. Cook, Northeastern University—emphasizes scientific methods, hypothesis formulation, and theory as the basis for research. 1965, 5 3/8 x 8 1/4, Paperbound 231 pp.

ALLYN AND BACON, INC.  
470 Atlantic Avenue, Boston, Mass. 02210
New Publications in Statistics

From Allyn and Bacon, Inc.

Elements of Statistical Inference, II
David V. Huntsberger, Iowa State University of Science and Technology
This introduction to the basic concepts of statistical inference presents techniques which are applicable to all the quantitative sciences. New topics in the second edition include the paired t-tests, an elementary treatment of Bayes’ theorem, and an introduction to analysis of variance for two way classifications. 1967, 6 x 9, 398 pp.

An Introduction to Statistics and Measurement: A Programmed Book
Lowell A. Schoer, State University of Iowa
A class-tested text that presents all the statistical concepts necessary for dealing with norms, predictions, validity, reliability, regression, and the standard error of measurement. 1966, 8½ x 11, Paperbound 201 pp.

Evaluating Pupil Growth: Principles of Tests and Measurement, III
J. Stanley Ahmann, Colorado State University and Marvin D. Glock, Cornell University
This modern text contains up-dated discussions of standardized instruments; for example, the Differential Aptitude Test. 1967, 6 x 9, 605 pp.

ALLYN AND BACON, INC.
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FUNDAMENTAL METHODS OF MATHEMATICAL ECONOMICS
By Alpha C. Chiang, The University of Connecticut. 704 pages, $11.95.
A text organized along economic lines, introducing mathematics to economists gradually and systematically. Requiring no background beyond high school algebra, it develops all the basic mathematical methods that are of use in economics today.

MANPOWER AGENDA FOR AMERICA
Explains the problems and policies which precipitated manpower into a position of national priority, delineates the various manpower programs which have been designed, and evaluates the directions in which they are going.

INTRODUCTION TO GENERAL EQUILIBRIUM THEORY AND WELFARE ECONOMICS
By James Quirk and Rubin Saposnik, both of the University of Kansas. Economics Handbook Series. Available December.
Summarizing the most important results of recent papers in the professional journals, this text provides an overview of competitive equilibrium theory with respect to problems of existence and uniqueness, stability, welfare properties and comparative statics.

PUBLIC SPENDING
Answer the questions: how are public spending choices made? what are their consequences? how can instruments for shaping these choices be expected to work? Text examines major aspects and issues of public expenditures and analyzes the “unseen hand” of the government.

The third edition of this leading text will continue to focus on the analysis of aggregate economic activity within a single coherent framework. At the same time, the authors have introduced important new material on recent policy controversies and new theoretical developments.

MAN AND ECONOMICS: An Economic Study of the Cooperative Imperative
By Robert A. Mundell, University of Chicago. Available December.
Acquaints the intelligent layman, the businessman, and the student with the power of economics as a system of thought and as a guide to the solutions of problems of choice in all aspects of life.

Investigates the nature of government “economic planning” and dispels the confusions and myths which surround it. Text shows the effects which planning attempts to have and how it differs from other methods of managing the economy.

THE AMERICAN SYSTEM OF SOCIAL INSURANCE

Papers and discussion presented at a special symposium at Princeton on the philosophy, impact, and future developments of social security in America.

A CHALLENGE TO REASON

By C. West Churchman, University of California, Berkeley. Available winter.
Focuses on the important social, philosophical, and ethical problems created by the interplay of society, business, technology, and science.

ECONOMIC DECISION MODELS FOR ENGINEERS AND MANAGERS

Prepresents a broad coverage of quantitative methods for economic decision making. The format progresses from decision models assuming certainty to risk of problem to be solved and method of determining the most economical solution.

THE ADMINISTRATOR’S JOB: Issues and Dilemmas

Selects highlights of current thought and research about administration, and focuses on the most promising trends in the field. It builds a picture of administration which emphasizes the social involvement of the administrator in his job—that job being chiefly one of dilemma resolution.

CONTEMPORARY POLITICAL SCIENCE: Toward Empirical Theory

Edited by Ithiel de Sola Pool. Published in cooperation with the American Political Science Association. 304 pages, $7.50.
The Brookings Institution

ALBERT K. ANDO, E. CARY BROWN & ANN F. FRIEDLAENDER
Studies in Economic Stabilization*

SAMUEL B. CHASE, JR.
Problems in Public Expenditure Analysis*

MARTIN DAVID
Alternative Approaches to Capital Gains Taxation*

EDWARD F. DENISON, assisted by Jean Pierre Poullier
Why Growth Rates Differ*

RASHI FEIN
The Doctor Shortage*

GARY FROMM & PAUL TAUBMAN
Policy Simulations with an Econometric Model

CHRISTOPHER GREEN
Negative Taxes and the Poverty Problem*

ALBERT O. HIRSCHMAN
Development Projects Observed*

HOLLAND HUNTER
Soviet Transport Experience

LAWRENCE B. KRAUSE
European Economic Integration and the United States

WILFRED OWEN
Distance and Development

JEROME ROTHENBERG
Economic Evaluation of Urban Renewal*

JOHN B. SHEAHAN
The Wage-Price Guideposts*

HERMAN M. SOMERS & ANNE R. SOMERS
Medicare and the Hospitals*

* available in paperback edition

On display at Booth 4
SATURDAY, DECEMBER 30

7:30 a.m.
SHOREHAM
D. Riley's Suite
EDITORS OF STATISTICAL JOURNALS—BREAKFAST MEETING (by invitation)

8:30 a.m.
SHERATON PARK
No. Cotillion Rm.
AEA
REGIONAL ECONOMIC MODELS
Chairman: RICHARD RUGGLES, Yale Univ.
An Open Growth Model for a Regional Economy, GEORGE H. BORTS, Brown Univ. and Brookings Inst.
Input-Output Techniques for Urban Government Decisions, WERNER Z. HIRSCH, Univ. of California, Los Angeles
An Intra-Regional Simulation Model, JOHN R. MEYER and JOHN KAIN, Harvard Univ.
Discussion:
FRANK PUFFER, Univ. of California, Los Angeles
SIDNEY SONNENBLUM, National Planning Assn.
GUY ORCUTT, International Bank for Reconstruction and Development

8:30 a.m.
SHERATON PARK
Baltimore Rm.
AEA
ECONOMICS AND NONECONOMICS OF POVERTY
Chairman: MARTIN COHNSTAEDT, Univ. of Saskatchewan
A Clinical Economist in Rural Poverty, WILLIAM H. COOPER, Bucknell Univ.
Casualty Rates and the War on Poverty, ROBBIN R. HOUGH, Oakland Univ.
The Natural Law of Human Reproduction, RICHARD A. LaBARGE, Louisiana State Univ.
Discussion:
JAMES D. SMITH, Office of Economic Opportunity
WILLIAM B. NEENAN, Univ. of Michigan
HERMAN G. BERKMAN, New York Univ.

8:30 a.m.
SHERATON PARK
So. Cotillion Rm.
AEA
INVITED STUDENT DISSERTATIONS
Chairman: FRITZ MACHLUP, Princeton Univ.
Terms of Trade and Economic Development: A Case Study of India, DENNIS R. APPLEYARD (Ph.D., Univ. of Michigan, 1966), Univ. of North Carolina
A Distributed Lag Analysis of Adjustment of Size of Labor Force in Selected Major Labor Market Areas in the United States, MAURICE PFANNESTIEL (Ph.D., Oklahoma State Univ., 1967), Wichita State Univ.
Information and Market Efficiency, JOHN O. LEDYARD (Ph.D., Purdue Univ., 1967), Washington Univ.

8:30 a.m.
SHERATON PARK
Richmond-Arlington Rm.
AFA
PROBLEMS IN SELECTION OF SECURITY PORTFOLIOS
Chairman: WILLIAM F. SHARPE, Univ. of Washington
Capital Assets Prices: Some Empirical Implications, MICHAEL JENSEN, Univ. of Rochester
Implementation of Equity Valuation and Portfolio Management Concepts, DAVID M. AHLERS, Bankers Trust Co.
Discussion:
DONALD FARRAR, Massachusetts Inst. of Technology
JACK L. TREYNOR, Merrill Lynch, Pierce, Fenner and Smith
A FRESH LOOK AT INVESTMENT
Chairman: WILLIAM H. SHAW, U. S. Dept. of Commerce
Total Investment and Growth of the U. S. Economy, JOHN W. KENDRICK, George Washington Univ.
On Investment Behavior and Neo-Classical Theory, ROBERT EISNER and M. I. NADIRI, Northwestern Univ.
Recent Trends in Manufacturing Investment, DANIEL CREAMER, National Industrial Conference Board
Discussion: GEORGE TERBORGH, Machinery & Allied Products Inst.
PATRICK R. HUNTLEY, Center for Naval Analyses

CONTRIBUTED PAPERS—PHYSICAL AND ENGINEERING SCIENCES—III
Chairman: M. M. DESU, State Univ. of New York, Buffalo
Calibration of a Network Flow Simulation, WILLIAM C. SUHLER and DAVID B. WEBSTER, IBM Corp.
On Gumbel's Hypothetical Distribution of Fatigue Life and Strength, H. FAIRFIELD SMITH, Univ. of Connecticut
Procedures for Selecting the Best One of Several Gamma Populations, PETER C. O'BRIEN, Iowa State Univ. and DAVID R. THOMAS, Oregon State Univ.
Direct Methods for Exact Truncated Sequential Tests of the Mean of a Normal Distribution, L. A. AROIAN and D. E. ROBINSON, TRW Systems
The Expectation of a Ratio of Non-Negative Random Variables and Some Present Meteorological Problems, JOHN A. FLUECK, Univ. of Chicago

SOCIAL INDICATORS
Chairman: ELEANOR BERNET SHELDON, Russell Sage Foundation
Measuring the Trend in Social Stratification, O. DUDLEY DUNCAN, Univ. of Michigan
Discussion: CHARLES B. NAM, Florida State Univ.
SAR A. LEVITAN, George Washington Univ.

CONTRIBUTED PAPERS—SOCIAL STATISTICS—III
Chairman: ROBERT D. GROVE, National Center for Health Statistics
Indians and Smudges on the Census Schedule, DONALD S. AKERS and ELIZABETH A. LARMON, U. S. Bur. of the Census
Measuring the Probability of Eventually Bearing n Live Births: An Extension of Fertility Tables, CHAI BIN PARK, Univ. of Hawaii
Utilizing Available Social Statistics to Delineate Program Sites for Community Action Programs, MARY G. POWERS, Fordham Univ.
Lifetime Migration and the Risk of Dying, HERBERT I. SAUER, U. S. Public Health Service
A Study of the Relationship between Suicide Rate and Age in the U. S. 1914 to 1964, D. W. WALKER, TRW Systems

Some Guides to Interpretation of the Figures on School Enrollment among Americans Overseas in the 1960 Census of Population, HARLEY M. UPCHURCH, George Washington Univ.

8:30 a.m.  
SHOREHAM  
Tudor Rm.  
ASA

MATHEMATICS REQUIREMENTS FOR STATISTICAL TRAINING
Chairman: ROSEDITH SITGREAVES, Columbia Univ.
Panel:
ANITA K. BAHN, Women's Medical Coll. of Pennsylvania
JOSEPH F. DALY, U. S. Bur. of the Census
VIVIAN P. GOUREVITCH, Columbia Univ.
GERALD J. LIEBERMAN, Stanford Univ.

8:30 a.m.  
SHOREHAM  
Forum  
ENAR-WNAR  
ASA

STOCHASTIC MODELS
Chairman: S. K. KATTI, Florida State Univ.
A Stochastic Model of Carcinogenesis Involving Two-Stages of Excitation, A. BRODSKY, Univ. of Pittsburgh and D. J. THOMPSON, Univ. of Washington
A Stochastic Model for Industrial Illness Absenteeism, J. GLASSER and W. JACKSON HALL, Univ. of North Carolina
Stochastic Processes in Compartmental Analysis, JOHN A. JACQUEZ, Univ. of Michigan
A Stochastic Model for Estimating the Dependence of the Probability of a Disease on Several Regressors, R. VANDER ZWAAG and D. B. DUNCAN, Johns Hopkins Univ.

8:30 a.m.  
SHERATON PARK  
Dover Rm.  
ES

GOVERNMENTAL DECISION RULES
Chairman: MARTIN BAILEY, Dept. of Defense
Monetary Policy in an Uncertain World, WILLIAM POOLE, Johns Hopkins Univ.
Adaptive Decision Rules for Macro-Economic Planning, EDWARD PRESCOTT, Univ. of Pennsylvania
Discussion:
F. TRENERY DOLBEAR, JR., U. S. Bur. of the Budget
DONALD TUCKER, Univ. of Chicago
JAMES W. FRIEDMAN, Yale Univ.

8:30 a.m.  
SHERATON PARK  
Annapolis-Frederick Rm.  
ES

OPTIMAL GROWTH MODELS
Chairman: G. C. ARCHIBALD, Northwestern Univ.
On Optimal Induced Technical Change, EMMANUEL DRANDAKIS and SHENG HU, Univ. of Rochester
Intertemporal Efficiency and Optimal Growth Policy, RYUZO SATO and ERIC DAVIS, Brown Univ.
Sequential and Continuous Planning, STEVEN M. GOLDMAN, Univ. of California, Berkeley
Discussion:
KARL SHELL, Massachusetts Inst. of Technology
MORDECAI KURZ, Stanford Univ.
TJALLING KOOPMANS, Yale Univ.
### MULTIPLE DECISION THEORY

Chairman: P. R. KRISHNAIAH, Aerospace Research Labs.

**On Selection and Ranking Procedures for Distributions with Monotone Hazard Rate**, SHANTI S. GUPTA, Purdue Univ. and R. E. BARLOW, Univ. of California, Berkeley

**Ranking Multiply Classified Variances of Normal Populations**, ROBERT E. BECHHOFFER, Cornell Univ.

### CONTRIBUTED PAPERS—XI

Chairman: J. WALKER, Georgia Inst. of Technology

**8:30** Robust Estimation of Multivariate Linear Trend, G. BHATTACHARYYA, Univ. of Wisconsin

**8:41** Optimally Robust Linear Estimators of Location, A. BIRNBAUM, E. LASKA, Courant Inst., Rockland State Hospital

**8:52** A New Family of Life Distributions, Z. BIRNBAUM, S. SAUNDERS, Univ. of Washington, Boeing Corp.

**9:03** A New Approach to the Classification Problem, H. HARTLEY and J. RAO, Texas A&M Univ.


**9:36** Contributions to Robust Estimation, V. MIKE, New York Univ.

**9:47** A Decision Theoretic Approach to the Problem of Interval Estimation, R. VALAND, E. R. Squibb & Sons

**9:58** Sequential Interval Estimation for the Means of Normal Populations, E. PAULSON, City Univ. of New York

**10:09** A Bayesian Analysis of Grouped Response Times: The Exponential Distribution Case, T. STARKS, Southern Illinois Univ.

### CONTRIBUTED PAPERS—XII

Chairman: C. B. BELL, Case Western Reserve Univ.

**8:30** Optimal Ranking and Selection Procedures, Z. GOVINDARAJULU and H. HALLER, JR., Case Western Reserve Univ.

**8:41** c-Sample Rank Orders, Z. GOVINDARAJULU and H. HALLER, JR., Case Western Reserve Univ.

**8:52** Certain Uncorrelated Nonparametric Test Statistics, M. HOLLANDER, Florida State Univ.

**9:03** Nonparametric Tests for Detection of Shift at an Unknown Time Point, R. JOHNSON, Univ. of Wisconsin

**9:14** A Nonparametric Test for the Multiple Correlation, K. PATEL, Univ. of Georgia


**9:36** Nonparametric Estimation of the Transition Distribution Function of a Markov Process, G. ROUSSAS, Univ. of Wisconsin


**9:58** Non-Parametric Estimation of a Regression Function, E. SCHUSTER, Univ. of Arizona

9:00 a.m.
SHERATON PARK
Wilmington Rm.
ES

SYMPOSIUM SESSION ON ESTIMATION PROCEDURES
Chairman: ZVI GRILICHES, Univ. of Chicago
Distributed Lags, PHOEBUS J. DHRYMES, Univ. of Pennsylvania
Testing Hypotheses in Linear Models: Some Comments and Bayesian Alternatives, JOHN W. PRATT, Harvard Univ.
Discussion:
JOHN CHIPMAN, Univ. of Minnesota

10:30 a.m.
SHERATON PARK
Sheraton Hall
AEA
ACE

ECONOMIC REFORM IN EASTERN EUROPE AND THE U.S.S.R.
(Joint session with the Association for the Study of Soviet-type Economies)
Chairman: E. E. HAGEN, Massachusetts Inst. of Technology
The U.S.S.R., ROBERT W. CAMPBELL, Indiana Univ.
Czechoslovakia, GEORGE J. STALLER, Cornell Univ.
Yugoslavia, BENJAMIN WARD, Univ. of California, Berkeley
Discussion:
ABRAM BERGSON Harvard Univ.
JOHN M. MONTIAS, Yale Univ.

10:30 a.m.
SHERATON PARK
Alexandria Rm.
AEA

ROUND TABLE ON THE SELECTION OF TRAINING OF FOREIGN GRADUATE STUDENTS
Chairman: HAROLD F. WILLIAMSON, Northwestern Univ.
Panel:
RALPH K. DAVIDSON, Rockefeller Foundation
WYN F. OWEN, Univ. of Colorado
ALBERT G. SIMS, National Assn. for Foreign Student Affairs
JAMES S. WORLEY, Vanderbilt Univ.

10:30 a.m.
SHOREHAM
Palladian Rm.
ASA

THE STATISTICAL BASIS FOR PLANNING CORPORATE STRATEGY
Chairman: ROBERT S. WEINBERG, Anheuser-Busch, Inc.
Corporate Planning, Strategic and Tactical, ROBERT S. WEINBERG, Anheuser-Busch, Inc.
Developing Information Systems for Corporate Planning, HENRY F. LANDE, IBM Corp.
The Role of Models in Corporate Long-Range Planning, PAUL J. KELSEY, Pillsbury Co.
Discussion:
LOUISE NELSON, Davidson Coll.
JAMES C. EMERY, Univ. of Pennsylvania

10:30 a.m.
SHOREHAM
Executive Rm.
ASA

CONTRIBUTED PAPERS—BUSINESS AND ECONOMIC STATISTICS—III
Chairman: LOUIS PARADISO, U. S. Dept. of Commerce
Obtaining Improved Estimates through the Use of the Cumulative Relative Frequency over Conventional Macro-Estimating Techniques, RUSSELL W. FENSKE, Univ. of Wisconsin, Milwaukee
Entropy, Markov Processes, and Competition in the Brewing Industry, ANN HOROWITZ and IRA HOROWITZ, Indiana Univ.
The Economic and Demographic Determinants for Demand of Dairy Products—An Econometric Study, TEH-WEI HU, Pennsylvania State Univ.
On the Usefulness of the Correlation Coefficient with a 0.1 Dependent Variable, JOHN NETER and E. SCOTT MAYNES, Univ. of Minnesota

A Theoretical and Empirical Analysis of Houthakker's Self-Dual Addilog Demand Functions, R. ROBERT RUSSELL and WAYNE SHAFAER, Univ. of California, Santa Barbara

10:30 a.m.
SHOREHAM
Diplomat Rm.
ASA

EVALUATION OF FAMILY PLANNING SERVICES IN THE U.S.
Chairman: ARTHUR A. CAMPBELL, National Center for Health Statistics

Methods of Evaluating Family Planning Programs with Special Reference to North Carolina, ELIZABETH J. COULTER and B. G. GREENBERG, Univ. of North Carolina

The Use of Matched Samples in Evaluating Family Planning Services in the District of Columbia, LOUISE OKADA, D. C. Dept. of Health

The Pregnancy History Technique for Measuring Fertility Levels, Differentials, and Changes, DONALD J. BOGUE, Univ. of Chicago

Discussion:
CHRISTOPHER TIETZE, Population Council

10:30 a.m.
SHERATON PARK
Richmond-Arlington Rm.
ES

MACRO-ECONOMIC MODELS
Chairman: W. H. LOCKE ANDERSON, Univ. of Michigan

Stabilization Policies in Non-linear Stochastic Macro-economic Systems, FRANKLIN SHUPP, Univ. of Illinois


Discussion:
E. PHILIP HOWREY, Princeton University
DANIEL SUITS, Univ. of Michigan

10:30 a.m.
SHERATON PARK
Park Rm.
ES

ON EMPIRICAL STUDIES OF CONSUMER BEHAVIOR: A COLLOQUIUM
Chairman: LEONID HURWICZ, Univ. of Minnesota

Speakers:
JAMES MORGAN, Univ. of Michigan
KARL BRUNNER, Ohio State Univ.
ALBERT ANDO, Univ. of Pennsylvania
GUY ORCUTT, International Bank for Reconstruction and Development
ARNOLD ZELLNER, Univ. of Chicago

10:30 a.m.
SHERATON PARK
Dover Rm.
ES

ECONOMETRIC STUDIES OF INVESTMENT AND PRODUCTION
Chairman: FRANK DeLEEUW, Board of Governors of the Federal Reserve System

Optimal Variable Adjustment Coefficients for Investment Subject to Exogenous Demand, ARTHUR B. TREADWAY, Northwestern Univ.


On Estimating the Industry Production Function, D. J. AIGNER, Univ. of Wisconsin and S. F. CHU Univ. of Illinois

Discussion:
ROBERT HALL, Univ. of California, Berkeley
MURRAY FOSS, Office of Business Economics
MURRAY BROWN, State Univ. of New York, Buffalo
10:30 a.m.
SHOREHAM
Empire Rm.
IMS
RIETZ LECTURE
Chairman: PAUL MEIER, Univ. of Chicago
Errors of Measurement in Statistics, WILLIAM G. COVARD UNIV.

12:30 p.m.
SHERATON PARK
Continental Rm.
AEA
LUNCHEON
(Jointly Sponsored by the U.S. National Commission for UNESCO)
Chairman: WILLIAM H. NICHOLLS, Vanderbilt Univ.
Speaker: Twenty-one Years of UNESCO: What For? CHARLES FRANKEL, Assistant Secretary of State for Education and Cultural Affairs

12:30 p.m.
SHOREHAM
D. Riley's Suite
ASA
1968 PROGRAM COMMITTEE—LUNCHEON MEETING (By invitation)
Chairman: JAMES W. KNOWLES, Joint Economic Committee, 1968
Program Committee Chairman

12:30 p.m.
SHERATON PARK
Baltimore-Annapolis Rm.
ASSOCIATION OF STUDENTS OF SOVIET-TYPE ECONOMIES—LUNCHEON

2:00 p.m.
SHOREHAM
Diplomat Rm.
ASA
NEW METHODS OF PRICE MEASUREMENT
Chairman: IRVING B. KRAVIS, Univ. of Pennsylvania
Hedonic Price Indexes Revisited, ZVI GRILICHES, Univ. of Chicago
Price Measurement for Policy Purposes, ANDREW F. BRIMMER, Board of Governors of the Federal Reserve System
Discussion: ROBERT E. LIPSEY, National Bur. of Economic Research
HARRY JOHNSON, London Sch. of Economics
KELVIN LANCASTER, Columbia Univ.

2:00 p.m.
SHOREHAM
Executive Rm.
ASA
CONTRIBUTED PAPERS—BUSINESS AND ECONOMIC STATISTICS—IV
Chairman: ROBERT E. LEWIS, First National City Bank
Bank Debits in Canada, H. M. Axford, Univ. of Lethbridge
On the Explicit Incorporation of Risk in Discounting Income Streams, HASKEL BENISHAY, Northwestern Univ.
The Effect of Federal Open Market Operations on Variations in Member Bank Reserves, VITTORIO A. BONOMO, Univ. of California, Santa Barbara and CHARLES SCHOTTA, JR., Virginia Polytechnic Inst.
Factors Influencing Installment Loan Repayment Tardiness at Commercial Banks, WILLIAM J. BROWN, Northern Illinois Univ.
Factors Related to the Allocation of Federal Expenditures Among the States, MAW LIN LEE, Pennsylvania State Univ.
Patterns of Regional Adjustments of Member Bank Reserves: Federal Open Market Operations: A Cross-Spectral Analysis, TORIO A. BONOMO, Univ. of California, Santa Barbara and CHARLES SCHOTTA, JR., Virginia Polytechnic Inst.
TRENDS IN NEGRO-WHITE DIFFERENTIALS
Chairman: DANIEL O. PRICE, Univ. of Texas
The Occupational Distribution of the Returns to Education and Experience for Whites and Negroes, LESTER C. THUROW, Harvard Univ.
Negro-White Differentials in Family Structure and Poverty, MYRON J. LEFCOWITZ, Univ. of Wisconsin
Negro-White Occupation Differentials, KARL E. TAEUBER, Univ. of Wisconsin
Discussion: TOBIA BRESSLER, U. S. Bur. of the Census

TEACHING OF BIOSTATISTICS TO MEDICAL STUDENTS AND PHYSICIANS
Chairman: ANITA K. BAHN, Women’s Medical Coll. of Pennsylvania
Panel:
ROY ACHESON, Yale Univ.
LEONARD CHIAZZE, JR., Georgetown Univ.
OLIVE J. DUNN, Univ. of California, Los Angeles
JOHN W. FERTIG, Columbia Univ.
MATHEW TAYBECK, Univ. of Maryland

CONTRIBUTED PAPERS—BIOMETRICS—IV
Chairman: C. P. QUESENBERRY, North Carolina State Univ.
Rational Approximations to Distributions, M. DAVIS and J. TONASCIA, Johns Hopkins Univ.
A Class of Angular Distributions Related to the Normal, T. D. DOWNS and A. L. GOULD, Case Western Reserve Univ.
Comparison of Distance Statistics for Populations with Unequal Covariance Matrices, R. L. CHADDA, Bell Telephone Lab. and L. F. MARCUS, Queens Coll.
Some Pooling Procedures for Two Correlated Means Based upon a Preliminary Test of Significance, D. B. RUHL, Iowa State Univ.

STUDIES IN CAPITAL MARKETS
Chairman: CHARLES CHRISTENSON, Harvard Univ.
A Re-examination of the Modigliani-Miller Theorem, JOSEPH E. STIGLITZ, Yale Univ.
Risk and Corporate Rate of Return, IRVING N. FISHER and GEORGE R. HALL, RAND Corp.
The Effects of Tax Reform on Rates of Return in the Capital Markets and on Corporate Saving and Investment, JOHN BOSSONS, Univ. of Toronto
Discussion:
MERTON MILLER, Univ. of Chicago
PAUL COOTNER, Massachusetts Inst. of Technology
WILBER G. LEWELLEN, Purdue Univ.
AGRICULTURE IN DEVELOPING COUNTRIES
Chairman: KARL FOX, Iowa State Univ.
Sources of Growth in Sectoral Output: The Case of Agriculture in Greece, 1945-1963, LAWRENCE H. SHAW, Vanderbilt Univ.
Optimum Patterns of Agricultural and Industrial Development for a Small Economy, MORRIS F. TEUBAL, Univ. of Minnesota
The Relevance of Traditional Economic Theory for Understanding Peasant Behavior: A Case Study of Rice Supply Response in Thailand, 1940-1963, JERE R. BEHRMAN, Univ. of Pennsylvania
Discussion:
PAN A. YOTOPOLOS, Univ. of Hawaii
ALFRED CONRAD, City Coll. of New York
CARLOS DIAZ, Univ. of Minnesota

ROBUST ESTIMATION OF LOCATION AND REGRESSION PARAMETERS
Chairman: DAVID HOGBEN, National Bur. of Standards
Optimally Robust Linear Estimators of Location, ALLAN BIRNBAUM, New York Univ. and EUGENE LASKA, Rockland State Hospital
Uniformly Asymptotically Efficient Estimators of Location, VALERIE MIKE, Cornell Univ.
Robust Estimation and Robust Parameters, KEI TAKEUCHI, Univ. of Tokyo and New York Univ.

CONTRIBUTED PAPERS—XIII
Chairman: To be announced
(2:00) Higher Moments of a Stopping Rule, B. BROWN, Purdue Univ.
(2:44) Consistency Conditions on, and Bounds on Critical Homomorphically Aggregated Probabilities of, General Dependent Probability Systems of a Finite Number of Events Macro-Specified only by the Triple \( \{m, \Sigma_i P_i, \Sigma_j \leq P_j \}\), S. KWEREL, City Univ. of New York
(2:55) Inequalities and Tolerance Limits for s-Ordered Distributions, M. LAWRENCE, Corning Glass Works
(3:06) Some Common Sharp Bounds for Many Probabilities, G. MUDHOLKAR, Univ. of Rochester
(3:17) Bayesian Estimation of Mixing Distributions, J. ROLPH, Columbia Univ.
(3:28) Extreme nth Moments for Distributions on [0, 1] and the Inverse of a Moment Space Map to the n-dimensional Unit Cube, M. SKIBINSKY, Brookhaven National Lab.
PROBLEMS IN PRICING AND GROWTH
Chairman: ROBERT SOLO, Michigan State Univ.
Relative Prices in Macroeconomic Models, C. S. SOPER, Univ. of Melbourne and L. R. WEBB, Univ. of Melbourne and Cornell Univ.
Demand and Supply for Securities and Economic Growth, PAUL DAVIDSON, Rutgers Univ.
Pricing and Optimum Size in a Nonprofit Institution: The University, HANS H. JENNY, Coll. of Wooster
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HAROLD WEIN, Michigan State Univ.
ALLAN COTTA, Univ. of Caen
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