

# 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**

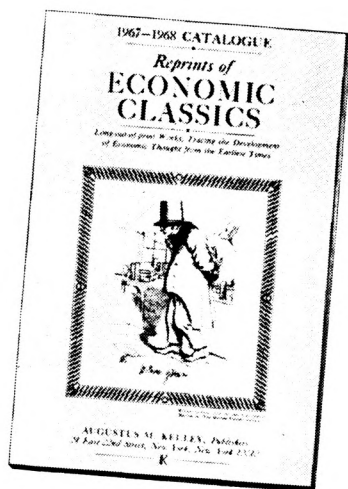
**DECEMBER 26-30, 1967**

**Sheraton Park Hotel**

**Shoreham Hotel**

**Statler Hilton Hotel**

**Washington Hilton Hotel**



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	<b>Page</b>
<b>General Information</b> .....	<b>5</b>
<b>Restaurant Guide</b> .....	<b>13</b>
<b>Summaries of Joint Program</b>	
<b>Societies' Business Meetings</b> .....	<b>21</b>
<b>Fee and Social Events</b> .....	<b>23</b>
<b>Technical Sessions</b> .....	<b>25</b>
<b>General Program Schedule</b>	
<b>Tuesday</b> .....	<b>42</b>
<b>Wednesday</b> .....	<b>43</b>
<b>Thursday</b> .....	<b>65</b>
<b>Friday</b> .....	<b>95</b>
<b>Saturday</b> .....	<b>125</b>
<b>Convention Chairmen of Participating Associations</b> .....	<b>147</b>
<b>Joint Local Arrangements Committee</b> .....	<b>147</b>
<b>Association Officers and Program Committees</b> .....	<b>153</b>
<b>List of Exhibitors</b> .....	<b>157</b>
<b>List of Advertisers</b> .....	<b>158</b>
<b>Index of Participants</b> .....	<b>172</b>
<b>Hotel Floor Plans</b> .....	<b>184-191</b>

**ASSOCIATIONS AND HEADQUARTERS**

<u>Abbreviation</u>	<u>Association</u>	<u>Headquarters</u>
<b>ACE</b>	Association for Comparative Economics	Sheraton Park
<b>AEA</b>	American Economic Association	Sheraton Park
<b>AEIB</b>	Association for Education in International Business	Sheraton Park
<b>AFA</b>	American Finance Association	Sheraton Park
<b>AFEA</b>	American Farm Economic Association	Sheraton Park
<b>AFEE</b>	Association for Evolutionary Economics	Sheraton Park
<b>AMA</b>	American Marketing Association	Washington Hilton
<b>AREUEA</b>	American Real Estate and Urban Economics Association	Sheraton Park
<b>ASA</b>	American Statistical Association	Shoreham
<b>CEA</b>	Catholic Economic Association	Sheraton Park
<b>ENAR</b>	Biometric Society, Eastern North American Region	Shoreham
<b>ES</b>	Econometric Society	Sheraton Park
<b>IMS</b>	Institute of Mathematical Statistics	Shoreham
<b>IRRA</b>	Industrial Relations Research Association	Statler Hilton
<b>ODE</b>	Omicron Delta Epsilon	Sheraton Park
<b>WNAR</b>	Biometric Society, Western North American Region	Shoreham
<b>ASSA</b>	Allied Social Science Associations	



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**TIME SERIES ANALYSIS PAPERS**

Emanuel Parzen, Stanford University. Just published. 580 pp. Paper. \$8.50

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**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**

Jacques Neveu, University of Paris. Trans. by Amiel Feinstein. 1965. 240 pp. \$9.95

**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

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Emanuel Parzen, Stanford University. 1962. 335 pp. \$10.95

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## 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:

#### Shoreham

Tuesday	December 26	1 p.m.—9 p.m.
Wednesday	December 27	8 a.m.—8 p.m.
Thursday	December 28	8 a.m.—4 p.m.
Friday	December 29	8 a.m.—4 p.m.

#### Sheraton Park

Wednesday	December 27	1 p.m.—9 p.m.
Thursday	December 28	8 a.m.—8 p.m.
Friday	December 29	8 a.m.—4 p.m.

#### Statler Hilton

Wednesday	December 27	3 p.m.—9 p.m.
Thursday	December 28	8 a.m.—5 p.m.
Friday	December 29	8 a.m.—

12:30 p.m.

#### Washington Hilton

Tuesday	December 26	1 p.m.—8 p.m.
Wednesday	December 27	8 a.m.—4 p.m.
Thursday	December 28	8 a.m.—4 p.m.
Friday	December 29	8 a.m.—12 noon

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## 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:

### Shoreham

Tuesday	1 p.m.—9 p.m.
Wednesday	8 a.m.—6 p.m.
Thursday	8 a.m.—6 p.m.
Friday	8 a.m.—6 p.m.
Saturday	8 a.m.—12 noon

### Sheraton Park

Wednesday	8 a.m.—9 p.m.
Thursday	8 a.m.—9 p.m.
Friday	8 a.m.—9 p.m.
Saturday	8 a.m.—2 p.m.

### Washington Hilton

Tuesday	1 p.m.—8 p.m.
Wednesday	8 a.m.—4 p.m.
Thursday	8 a.m.—4 p.m.
Friday	8 a.m.—12 noon

## 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.

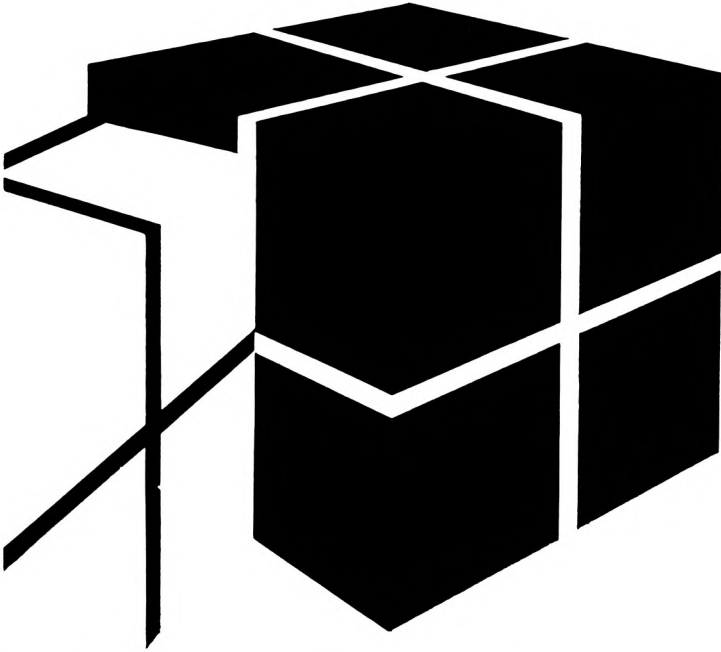
Placement service will be available in two locations:

- (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:

Tuesday	1 p.m.—7 p.m.
Wednesday	8 a.m.—6 p.m.
Thursday	8 a.m.—6 p.m.
Friday	8 a.m.—6 p.m.
Saturday	8 a.m.—1 p.m.

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.



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**Instability and Economic Growth**

by Erik Lundberg  
forthcoming, spring 1968

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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.



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## 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)

Wednesday	4 p.m.— 9 p.m.
Thursday	8 a.m.— 6 p.m.
Friday	8 a.m.— 6 p.m.
Saturday	8 a.m.—12 noon

Shoreham: Exhibits will be located in the Ambassador Room

Wednesday	8 a.m.— 6 p.m.
Thursday	8 a.m.— 6 p.m.
Friday	8 a.m.— 6 p.m.
Saturday	8 a.m.—12 noon

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

Tuesday	6 p.m.—10 p.m.
Wednesday	8 a.m.— 6 p.m.
Thursday	8 a.m.— 6 p.m.
Friday	8 a.m.— 2 p.m.

# JOURNAL OF LAW AND ECONOMICS

*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

"The Monetary Theory and Policy of Henry Simons," Volume X (October, 1967).

"Interest Rates and the Demand for Money," Volume IX (October, 1966).

"Real and Pseudo Gold Standards," Volume IV (October, 1961).

## GEORGE J. STIGLER

"The Economic Effects of the Antitrust Laws," Volume IX (October, 1966).

"The Dominant Firm and the Inverted Umbrella," Volume VIII (October, 1965).

(with Claire Friedland) "What Can Regulators Regulate? The Case of Electricity," Volume V (October, 1962).

"Private Vice and Public Virtue," Volume IV (October, 1961).

"The Economies of Scale," Volume I (October, 1958).

## PAUL A. SAMUELSON

"Pitfalls in the Analysis of Public Goods," Volume X (October 1967).

"Public Goods and Subscription TV: A Correction of the Record," Volume VIII (October, 1964).

## JACOB VINER

"The Intellectual History of Laissez Faire," Volume III, (October, 1960).

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## 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

<u>Name</u>	<u>Location</u>	<u>Comments</u>	<u>Telephone</u>
Anna Maria's	2655 Conn.	moderate, Italian	265-5414
Napoleon's	2649 Conn.	moderate, French	265-8955
Marco Polo	2637 Conn.	moderate, Italian	462-3868
Arbaugh's	2606 Conn.	moderate, Bar-B-Q	234-8980
Garvins	2619 Conn.	inexpensive, <b>breakfast</b> — open 7:30 a.m.	234-7143
Sands	2605 Conn.	moderate, Mid-East	232-7755
Talleyrand	2301 Calvert	moderate	332-7717

### Vicinity of Washington Hilton Hotel

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

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

Old Stein	1339 Conn.	moderate, German	483-3362
Osaka	1329 Conn.	moderate, Japanese	296-3877
Tiffany's	1752 M St.	moderate, Smorgasbord	628-1223
Al Hambra	1819 M St.	moderate, Spanish	223-2125
Astor	1813 M St.	inexpensive, Greek	338-4994
Gusti's	1837 M St.	moderate, Italian	338-0895
Embers	1200-19th St.	moderate	296-6555

(Continued on Page 15)



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- EFFICIENCY AND EFFORT. *W. Baldamus.* (Tavistock)  
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Reinhard Bendix, M. W. Flinn, Everett E. Hagen. *Edited by Tom  
Burns & S. B. Saul.* (Tavistock) \$4.50
- MANAGEMENT OF INNOVATION. *Tom Burns & G. M. Stalker.*  
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\$6.50
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L. Meek.* (Chapman & Hall) \$7.25
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**Restaurant Guide (Cont'd)**

Knife & Fork	1824 M St.	moderate	333-8888
Paul Young's	1120 Conn.	moderate	337-7000
Duke Zeibert's	1722 L St.	moderate	296-5030
Mayflower Rib Room	Conn. & De Sales St.	moderate, beef	347-3000
The Black Rose	1101 - 17th	moderate	296-8075
Stouffer's	1511 K St.	moderate	638-6576
Taj Mahal	1327 Conn.	expensive, Indian	659-1544
Golden Ox	1615 L St.	moderate, beef	347-0010
Trader Vic's	16th & K (Statler)	expensive, Polynesian	393-1000
Harvey's	1107 Conn.	moderate, seafood, steak	628-1448
Sans Souci	726 - 17th	expensive, French	298-7424
Schaffers	835 - 17th	moderate, Hungarian	628-3829
Chez Francois	818 Conn.	moderate, French	638-1849

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- additional problems and special exercises
- addition of study guides and problems for key appendixes not in first edition of workbook
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- additional multiple-choice questions.
- coming *January*



18 | 17

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(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

4:00 p.m.	<b>ASA</b>	Board of Directors—Dinner
8:30 p.m.	<b>AFEE</b>	Board of Directors

### WEDNESDAY, DEC. 27

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

### THURSDAY, DEC. 28

7:15 a.m.	<b>ASSA</b>	Allied Social Science Association Secretaries—Breakfast
7:15 a.m.	<b>ASA</b>	Social Statistics Section—Breakfast (Fee event) (OPEN)
7:30 a.m.	<b>ASA</b>	Section on Physical and Engineering Sciences Advisory Board—Breakfast
12:00 noon	<b>ACE</b>	Business Meeting—Luncheon
12:30 p.m.	<b>ASA</b>	Business and Economic Statistics Section—Luncheon (Fee event) (OPEN)
12:30 p.m.	<b>ASA</b>	Section on Physical and Engineering Sciences (OPEN)
12:30 p.m.	<b>IRRA</b>	IRC Luncheon
12:30 p.m.	<b>IRRA</b>	Local Chapter Presidents—Luncheon
12:30 p.m.	<b>ASSA</b>	Journal Editors—Luncheon

**Thursday (Cont'd.)**

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

**FRIDAY, DEC. 29**

<b>7:15 a.m.</b>	<b>ASA</b>	Chapter Presidents, Secretaries and District Representatives—Breakfast, followed by National Membership Committee
<b>7:30 a.m.</b>	<b>ENAR</b>	Regional Committee—Breakfast
<b>7:30 a.m.</b>	—	Technometrics Associate Editors—Breakfast
<b>10:30 a.m.</b>	<b>ASA</b>	Committee on Social Insurance Statistics and Training
<b>12:30 p.m.</b>	<b>ENAR</b>	Annual Business Meeting (OPEN)
<b>12:30 p.m.</b>	<b>WNAR</b>	Annual Business Meeting (OPEN)
<b>4:00 p.m.</b>	—	Biometry Training Program Directors
<b>4:45 p.m.</b>	<b>AEIB</b>	Business Meeting (OPEN)
<b>5:00 p.m.</b>	<b>AFA</b>	Annual Membership Meeting (OPEN)
<b>5:15 p.m.</b>	<b>AREUEA</b>	Annual Meeting and Election of Officers (OPEN)
<b>9:15 p.m.</b>	<b>AEA</b>	Business Meeting (OPEN)

**SATURDAY, DEC. 30**

<b>7:30 a.m.</b>	—	Editors of Statistical Journals—Breakfast
<b>12:30 p.m.</b>	<b>ASA</b>	1968 Program Committee—Luncheon



(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

- 5:00 p.m.**                      **AMA**    Capitol Hill (Early Bird) Reception  
**8:00 p.m.**                      —        Mixer (Cash bar)

## WEDNESDAY, DEC. 27

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

## THURSDAY, DEC. 28

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

## 24 / SUMMARY OF FEE AND SOCIAL EVENTS

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### Thursday (Cont'd.)

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

### FRIDAY, DEC. 29

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

### SATURDAY, DEC. 30

- |                   |            |   |
|-------------------|------------|---|
| <b>12:30 p.m.</b> | <b>AEA</b> | Luncheon  |
| <b>12:30 p.m.</b> | —          | Association of Students of Soviet-Type Economies—Luncheon |

(See separate listings for summaries of business meetings and for fee and social events. See general schedule for hotel and room.)

**WEDNESDAY, DEC. 27**

8:30 a.m.	<b>ASA</b>	How Good Is Input-Output?
8:30 a.m.	<b>ASA</b>	Contributed Papers—Physical & Engineering Sciences I
8:30 a.m.	<b>ASA</b>	Population Projections for Small Areas
8:30 a.m.	<b>ASA</b>	New Approaches to the Teaching of Statistics
8:30 a.m.	<b>ENAR-WNAR, ASA</b>	Multivariate Theory
8:30 a.m.	<b>IMS</b>	Potential Theory—Random Walk, Renewal Theory
8:30 a.m.	<b>IMS</b>	Contributed Papers I
9:00 a.m.	<b>AMA</b>	Changing Marketing Systems: Consumer, Corporate and Government Interfaces
9:30 a.m.	<b>AFEE</b>	Business, the Revolution and the Constitution of the United States
10:00 a.m.	<b>AMA</b>	Government-Consumer Interest: Concepts, Conflicts and Prospects
10:00 a.m.	<b>AMA</b>	The Multi-National Business: Marketing Strategy and Organization
10:00 a.m.	<b>AMA</b>	The Role of the Government in Marketing Activity: Caveat Emptor vs. Caveat Vendor
10:00 a.m.	<b>AMA</b>	Technological Impact of Government Expenditures
10:00 a.m.	<b>AMA</b>	Consumer Research: Current Perspectives and Future Horizons
10:00 a.m.	<b>AMA</b>	Systems Analysis: Concepts and Applications
10:30 a.m.	<b>ASA</b>	Appraising the Nation's Economic Policy, 1966-67
10:30 a.m.	<b>ASA</b>	Design of Simulation Experiments
10:30 a.m.	<b>ASA</b>	Contributed Papers—Social Statistics I
10:30 a.m.	<b>ASA</b>	Local Social Urban Information Systems
10:30 a.m.	<b>ENAR-WNAR, ASA</b>	Applied Multivariate Analysis
10:30 a.m.	<b>IMS</b>	Wald Lecture I
11:00 a.m.	<b>AFEE</b>	American Unionism from Protest to Going Concern
11:30 a.m.	<b>IMS</b>	Contributed Papers II
2:00 p.m.	<b>ASA</b>	New Haven Pretest of the 1970 Census
2:00 p.m.	<b>ASA</b>	The Federal Reserve—M.I.T. Econometric Model
2:00 p.m.	<b>ASA</b>	Design for Response Surfaces
2:00 p.m.	<b>ASA</b>	Contributed Papers—Social Statistics II
2:00 p.m.	<b>AFEE</b>	Axioms of Economics and the Claim to Efficiency

**Wednesday (Cont'd.)**

<b>2:00 p.m.</b>	<b>ENAR-WNAR, ASA</b>	Demography
<b>2:00 p.m.</b>	<b>IMS</b>	Applied Probability
<b>2:00 p.m.</b>	<b>IMS</b>	Contributed Papers III
<b>2:30 p.m.</b>	<b>AMA</b>	Technological Development and the New Consumer
<b>2:30 p.m.</b>	<b>AMA</b>	Comparative Marketing Systems: The Government's Role
<b>2:30 p.m.</b>	<b>AMA</b>	Marketing Education: Changing Discipline Dimensions
<b>2:30 p.m.</b>	<b>AMA</b>	Business Research and Marketing Impact
<b>2:30 p.m.</b>	<b>AMA</b>	Presentation of Significant Doctoral Research
<b>3:30 p.m.</b>	<b>AFEE</b>	Repercussions of Welfare Payments on Labor Force Behavior
<b>4:00 p.m.</b>	<b>ASA, ENAR-WNAR, IMS</b>	General Methodology Lecture
<b>8:00 p.m.</b>	<b>CEA</b>	Corporate Social Responsibilities
<b>8:30 p.m.</b>	<b>ASA</b>	Special Address Invited by the President
<b>8:30 p.m.</b>	<b>AFEE</b>	Presidential Address

**THURSDAY, DEC. 28**

<b>8:30 a.m.</b>	<b>AEA, AFEA</b>	Aggregate Demand Shifts, Labor Transfers and Income Distribution
<b>8:30 a.m.</b>	<b>AEA, ODE</b>	Graduate Student Session
<b>8:30 a.m.</b>	<b>AEA</b>	Transport for Economic and Social Development
<b>8:30 a.m.</b>	<b>AFA</b>	Metropolitan Areas and Fiscal Federalism
<b>8:30 a.m.</b>	<b>ASA</b>	New Developments in Consumer Anticipation Surveys
<b>8:30 a.m.</b>	<b>ASA</b>	Reliability Theory
<b>8:30 a.m.</b>	<b>ASA</b>	Aspects of the 1966 and 1971 Census Programmes in Canada
<b>8:30 a.m.</b>	<b>ASA</b>	Many Courses in Statistics vs. a Few Courses in Depth
<b>8:30 a.m.</b>	<b>ENAR-WNAR, ASA</b>	Data Analysis
<b>8:30 a.m.</b>	<b>ES</b>	Studies in the Pure Theory of Markets
<b>8:30 a.m.</b>	<b>ES</b>	Estimation Methods
<b>8:30 a.m.</b>	<b>ES</b>	Econometric Studies of Production Functions
<b>8:30 a.m.</b>	<b>IRRA</b>	Manpower and Its Education and Training
<b>8:30 a.m.</b>	<b>IMS, ASA</b>	Sequential Theory
<b>8:30 a.m.</b>	<b>IMS</b>	Contributed Papers IV
<b>9:15 a.m.</b>	<b>AMA</b>	Ethical Dimensions of Marketing Behavior

Thursday (Cont'd.)

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

**Thursday (Cont'd.)**

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

**FRIDAY, DEC. 29**

<b>8:30 a.m.</b>	<b>AEA</b>	Experiments in Teaching Economics
<b>8:30 a.m.</b>	<b>AEA</b>	The Entrepreneur
<b>8:30 a.m.</b>	<b>AFEA, ES</b>	Recent Econometric Analyses in Agriculture

## Friday (Cont'd.)

8:30 a.m.	<b>AFA</b>	Pension Funds, Issues and Alternatives
8:30 a.m.	<b>AREUEA</b>	Current Research in Real Estate and Land Economics
8:30 a.m.	<b>ASA</b>	Defense Statistics: Quality and Implications
8:30 a.m.	<b>ASA</b>	Contributed Papers—Physical & Engineering Sciences II
8:30 a.m.	<b>ASA</b>	Family Statistics
8:30 a.m.	<b>ASA</b>	Computer Science and Statistics: A View of the Bridge
8:30 a.m.	<b>ENAR-WNAR, ASA</b>	Biostatistics I
8:30 a.m.	<b>ENAR-WNAR, ASA</b>	Contributed Papers—Biometrics I
8:30 a.m.	<b>ES</b>	Monetary Studies
8:30 a.m.	<b>ES</b>	Invited Papers by Distinguished Foreign Scholars
8:30 a.m.	<b>IRRA</b>	Manpower Planning—Private and Public
8:30 a.m.	<b>IMS, ASA</b>	Nonparametric and Robust Methods
8:30 a.m.	<b>IMS</b>	Contributed Papers VII
9:00 a.m.	<b>AMA</b>	Marketing in Low-Income Neighborhoods
9:00 a.m.	<b>AMA</b>	Graduate Education in Marketing
9:00 a.m.	<b>AMA</b>	Marketing Channels
9:00 a.m.	<b>AMA</b>	Business Education for International Marketing
9:00 a.m.	<b>AMA</b>	Marketing Applications to Input/Output Analysis
9:00 a.m.	<b>AMA</b>	Diffusion of Innovation Viewed as an Information System
9:00 a.m.	<b>AMA</b>	The Role of Government Marketing in the Curriculum
9:00 a.m.	<b>AMA</b>	Marketing and Public Policy
9:00 a.m.	<b>AMA</b>	Role of Computer Science in Marketing Education
9:00 a.m.	<b>AMA</b>	Marketing and the Federal Trade Commission
9:00 a.m.	<b>AMA</b>	Personal Selling and the Conceptual Environment
9:00 a.m.	<b>AMA</b>	Marketing Costs and Profits by Segment of the Business
9:00 a.m.	<b>AMA</b>	AMA Student Chapter/Industry Relations
9:00 a.m.	<b>AMA</b>	Marketing and the Development Process
10:30 a.m.	<b>AEA</b>	Round Table on the Scientific-Military-Industrial Complex and the New Industrial State
10:30 a.m.	<b>AEA</b>	Round Table on the Grants Economy
10:30 a.m.	<b>AFA</b>	The Outlook for the Money and Capital Markets
10:30 a.m.	<b>AREUEA</b>	Real Estate Decision-Making and Urban Design

**Friday (Cont'd.)**

<b>10:30 a.m.</b>	<b>ASA</b>	Computer-Based Statistical Systems
<b>10:30 a.m.</b>	<b>ASA</b>	Technometrics Session
<b>10:30 a.m.</b>	<b>ASA, IRRA</b>	Measures of Manpower
<b>10:30 a.m.</b>	<b>ENAR-WNAR, ASA</b>	Contributed Papers—Biometrics II
<b>10:30 a.m.</b>	<b>ENAR-WNAR, ASA</b>	Biomathematics II
<b>10:30 a.m.</b>	<b>ES</b>	Studies in Wage-Price Behavior
<b>10:30 a.m.</b>	<b>ES</b>	Studies in Optimal Policy
<b>10:30 a.m.</b>	<b>ES</b>	The Role of Simulations in Studies of Econometric Models
<b>10:30 a.m.</b>	<b>IRRA</b>	Manpower and Its Motivation
<b>10:30 a.m.</b>	<b>IMS</b>	Wald Lecture III
<b>10:30 a.m.</b>	<b>ODE</b>	Omicron Delta Epsilon 3rd Biennial Convention Meeting
<b>11:30 a.m.</b>	<b>IMS</b>	Contributed Papers VIII
<b>2:00 p.m.</b>	<b>AFEA</b>	Macro-Micro Linkages in the Rural Economy
<b>2:00 p.m.</b>	<b>AFA, AREUEA</b>	Structural Changes in Mortgage Fund Flows
<b>2:00 p.m.</b>	<b>ASA</b>	Model Building
<b>2:00 p.m.</b>	<b>ASA</b>	More Light on the Definition of Poverty
<b>2:00 p.m.</b>	<b>ASA</b>	Training of Statistical Personnel for the State
<b>2:00 p.m.</b>	<b>AEIB</b>	The Development of International Business Programs
<b>2:00 p.m.</b>	<b>ENAR-WNAR, ASA</b>	Statistics in the Drug Industry I: Methodology for Testing and Clinical Evaluation of Drugs
<b>2:00 p.m.</b>	<b>ES, AEA</b>	Econometric Models, Their Problems and Usefulness
<b>2:00 p.m.</b>	<b>ES</b>	Studies in Economic Theory
<b>2:00 p.m.</b>	<b>ES</b>	Econometric Studies
<b>2:00 p.m.</b>	<b>IMS</b>	Optimal Design and Estimation
<b>2:00 p.m.</b>	<b>IMS</b>	Contributed Papers IX
<b>2:30 p.m.</b>	<b>AEA</b>	Technological and Economic Implications of 3 Percent Growth
<b>2:30 p.m.</b>	<b>IRRA, ACE</b>	International Experience: U. S. Contributions and Contributions to the U. S.
<b>2:30 p.m.</b>	<b>IRRA</b>	Invited Papers
<b>2:45 p.m.</b>	<b>AEIB</b>	How Companies Make International Decisions
<b>3:00 p.m.</b>	<b>ASA</b>	Contributed Papers—Business & Economic Statistics II
<b>3:00 p.m.</b>	<b>ASA</b>	Contributed Papers—Training
<b>4:00 p.m.</b>	<b>ASA</b>	Regression Techniques



**Friday (Cont'd.)**

<b>4:00 p.m.</b>	<b>ASA</b>	Federal Statistics—Major Developments
<b>4:00 p.m.</b>	<b>AEIB</b>	International Business: A Conceptual Framework
<b>4:00 p.m.</b>	<b>ENAR-WNAR, ASA</b>	Statistics in the Drug Industry II: Ethical Considerations in Clinical Trials
<b>4:00 p.m.</b>	<b>ENAR-WNAR, ASA</b>	Contributed Papers—Biometrics III
<b>4:00 p.m.</b>	<b>ES</b>	Empirical Studies in Consumer Behavior
<b>4:00 p.m.</b>	<b>IMS</b>	Decision Theory
<b>4:00 p.m.</b>	<b>IMS</b>	Contributed Papers X
<b>4:15 p.m.</b>	<b>AREUEA</b>	The Relationship of AREUEA to Professional Real Estate Associations
<b>4:30 p.m.</b>	<b>ES</b>	Walras-Bowley Lecture
<b>8:00 p.m.</b>	<b>AEA</b>	Presidential Address
<b>8:30 p.m.</b>	<b>ASA</b>	Presidential Address

**SATURDAY, DEC. 30**

<b>8:30 a.m.</b>	<b>AEA</b>	Regional Economic Models
<b>8:30 a.m.</b>	<b>AEA</b>	Economics and Noneconomics of Poverty
<b>8:30 a.m.</b>	<b>AEA</b>	Invited Student Dissertations
<b>8:30 a.m.</b>	<b>AFA</b>	Problems in Selection of Security Portfolios
<b>8:30 a.m.</b>	<b>ASA</b>	A Fresh Look at Investment
<b>8:30 a.m.</b>	<b>ASA</b>	Contributed Papers—Physical & Engineering Sciences III
<b>8:30 a.m.</b>	<b>ASA</b>	Social Indicators
<b>8:30 a.m.</b>	<b>ASA</b>	Contributed Papers—Social Statistics III
<b>8:30 a.m.</b>	<b>ASA</b>	Mathematics Requirements for Statistical Training
<b>8:30 a.m.</b>	<b>ENAR-WNAR, ASA</b>	Stochastic Models
<b>8:30 a.m.</b>	<b>ES</b>	Governmental Decision Rules
<b>8:30 a.m.</b>	<b>ES</b>	Optimal Growth Models
<b>8:30 a.m.</b>	<b>IMS</b>	Multiple Decision Theory
<b>8:30 a.m.</b>	<b>IMS</b>	Contributed Papers XI
<b>8:30 a.m.</b>	<b>IMS</b>	Contributed Papers XII
<b>9:00 a.m.</b>	<b>ES</b>	Symposium Session on Estimation Procedures
<b>10:30 a.m.</b>	<b>AEA, ACE</b>	Economic Reform in Eastern Europe and the U. S. S. R.
<b>10:30 a.m.</b>	<b>AEA</b>	Round Table on the Selection of Training of Foreign Graduate Students
<b>10:30 a.m.</b>	<b>ASA</b>	The Statistical Basis for Planning Corporate Strategy

**Saturday (Cont'd.)**

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

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Chairman: FREDERICK MOSTELLER, Harvard Univ., President, ASA

5:00 p.m.  
WASH.-HILTON  
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**CAPITOL HILL (EARLY BIRD) RECEPTION**

8:00 p.m.  
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8:30 a.m.  
SHOREHAM  
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ASA

**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.

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

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**POPULATION PROJECTIONS FOR SMALL AREAS**

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

**Metropolitan Area Population Projections: Use of Regional and National Economic Frameworks**, MANNIE KUPINSKY, National Planning Assn.

**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

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

**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.

**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  $\chi_r^2$  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

**Contributions of Potential Theory to the Theory of Markov Chains**, J. L. SNELL, Dartmouth Coll.**Non-linear Renewal Theory**, PETER NEY, Univ. of Wisconsin**Generalized Random Processes**, M. M. RAO, Carnegie-Mellon Univ.

**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<sup>m</sup> 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  $\mu_{21} = 2$  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. LORDEEN, Northwestern Univ.**(9:58) Some Results Concerning Stopping Rules (Preliminary Report)**, L. GLESER, Johns Hopkins Univ. and S. ZACKS, Kansas State Univ.**(10:09) Existence of Optimal Stopping Rules for Rewards of the Form  $c_n |S_n|^\alpha$  (Preliminary Report)**, P. FEDER and G. SIMONS, Stanford 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.  
**Multi-National Marketing Strategy and Organization—An Overview**, WARREN J. KEEGAN, 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. GREYER, 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  
**Competition in High Technology Government Markets**, MURRAY L. WEIDENBAUM, Washington, Univ.

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

**CONSUMER RESEARCH: CURRENT PERSPECTIVES AND FUTURE HORIZONS**

Chairman: FRANK M. BASS, Purdue Univ.  
**Theory and Measurement of Buyer Behavior**, JOHN A. HOWARD, Columbia 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: WILLAM 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.

**A Simulation Study of an Inventory Model**, W. E. SASSER, D. S. BURDICK and T. H. NAYLOR, Duke Univ.

**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.

**Aggregate Income and Income Size Distribution Estimates for Selected Standard Metropolitan Statistical Areas**, MITSUO ONO, GEORGE PATTERSON and EMMETT SPIERS, U. S. Bur. of the Census

**Poverty in the Rural Population of the United States**, GORDON F. SUTTON, Office of Economic Opportunity

**Stochastic Aspects of the Labor Force Process**, HASKEL BENISHAY, Northwestern Univ.

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.**  
**AFFEE**

**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.

**(11:35) Some Probabilistic Models of Neuron Firing (Preliminary Report)**, R. COLEMAN and J. GASTWIRTH, 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

**(12:08) An Old Approach to Finite Population Sampling Theory**, R. ROYALL, Johns Hopkins Univ.

**(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.**  
**SHOREHAM**  
**D. Riley's Suite**  
**ASA**

**JOURNAL OF ASA EDITORIAL BOARD—LUNCHEON MEETING (By Invitation)**

**12:30 p.m.**  
**SHOREHAM**  
**Directors Rm.**  
**ENAR**

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

**12:30 p.m.**  
**SHOREHAM**  
**Executive Rm.**  
**ASA**

**SECTION ON TRAINING—MEETING (All Section Members Invited)**  
Chairman: WILLIAM WASSERMAN, Syracuse Univ., Section Chair-  
man

**12:30 p.m.**  
**SHOREHAM**  
**Blue Rm.**  
**ASA**

**EMERGING FEDERAL GUIDELINES FOR SUPPORT OF URBAN INFOR-  
MATION SYSTEMS—LUNCHEON (Fee event)** (conference continued  
from 10:30 a.m. session)  
Speaker: CHARLES GRAVES, Dept. of Housing and Urban Develop-  
ment  
(Conference continues at 2:00 P.M. session)

**1:00 p.m.**  
**SHERATON PARK**  
**Franklin Rm.**  
**AFEA**

**EXECUTIVE SESSION**

**1:00 - 5:00 p.m.**  
**AREUEA**

**FIELD TRIP TO COLUMBIA, MARYLAND (Limited Reservations)**

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

**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. KAP-  
LAN, U. S. Bur. of the Census  
**The Effort to Make Census Results More Useful for Local Pur-  
poses**, 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.**  
**SHOREHAM**  
**Empire Rm.**  
**ASA**

**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 Re-  
serve System  
**The Labor Market and Potential Output: A Simulation Study**,  
PETER TINSLEY and ALFRED TELLA, Board of Governors of the  
Federal Reserve System

**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. MARASCUILO, Univ. of California, Berkeley and MARYELLEN McSWEENEY, 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.**From Identities to Normal Equations: An Easy Approach to Least Squares**, IRVING H. SIEGEL, W. E. Upjohn Inst. for Employment Research**An Empirical Study of the Stabilities of Estimators and Variance Estimators in P.P.S. Sampling**, J. N. K. RAO and D. L. BAYLESS, Texas A & M 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**A Survey of Probability Models for Family Building, I. A Simple Scheme with Fixed Parameters**, M. C. SHEPS and J. A. MENKEN, Columbia Univ.

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.

(2:55) **Multivariate Orthogonal Polynomials**, K. KRAMER, U.S. Steel Corp.

(3:06) **A Test for the Homogeneity of Variances in Regression Models**, W. NURI, Univ. of Southwestern Louisiana

(3:17) **Minimization of the Eigenvalues of a Matrix and Optimality of Principal Components**, M. OKAMOTO and M. KANZAWA, Iowa State Univ. and Osaka Univ.

(3:28) **Unbiasedness of Some Test Criteria for the Equality of One or Two Covariance Matrices**, N. SUGIURA, Univ. of North Carolina and H. NAGAO, Hiroshima Univ.

(3:39) **Some Tests of Independence for Stationary Multivariate Time Series**, G. WAHBA, Univ. of Wisconsin

2:00 p.m.  
SHOREHAM  
Forum

### BIOMETRY TRAINING PROGRAM DIRECTORS—MEETING (By invitation)

Chairman: FELIX E. MOORE, Univ. of Michigan  
(Meeting continues Friday at 4:00 p.m.)

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

### 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.

- 4:00 p.m.**  
**SHOREHAM**  
**Empire Rm.**  
**ASA**  
**ENAR-WNAR**  
**IMS**
- GENERAL METHODOLOGY LECTURE**  
 Chairman: CARL A. BENNETT, Battelle-Northwest  
**Recent Developments in Sample Survey Methods**, H. O. HARTLEY,  
 Texas A & M Univ.
- 4:00 p.m.**  
**SHERATON PARK**  
**Adams Rm.**  
**CEA**
- EXECUTIVE COUNCIL MEETING**
- 5:30 p.m.**  
**WASH.-HILTON**  
**Terrace Level**  
**AMA**
- PRESIDENT'S RECEPTION**
- 5:30 p.m.**  
**SHOREHAM**  
**Heritage Rm.**  
**ASA**
- BIOMETRICS SECTION—MEETING (All Section Members Invited)**  
 Chairman: WILFRID J. DIXON, Univ. of California, Los Angeles,  
 Section Chairman
- 5:30 p.m.**  
**SHOREHAM**  
**D. Riley's Suite**
- TECHNOMETRICS MANAGEMENT COMMITTEE—DINNER MEETING**  
**(By invitation)**  
 Chairman: CARL A. BENNETT, Battelle-Northwest Committee  
 Chairman
- 6:00 p.m.**
- NORTH CAROLINA INSTITUTE OF STATISTICS—DINNER**  
 (Blackie's House of Beef, 22nd & M Sts., N.W.)
- 6:30 p.m.**  
**SHERATON PARK**  
**Madison Rm.**  
**AEA**
- EXECUTIVE COMMITTEE DINNER MEETING (By invitation)**
- 7:00 p.m.**  
**STATLER-HILTON**  
**Ohio Rm.**  
**IRRA**
- EXECUTIVE BOARD DINNER (By invitation)**
- 7:30 p.m.**  
**SHOREHAM**  
**Tudor Rm.**  
**IMS**
- 1967 COUNCIL MEETING**  
 Chairman: T. E. HARRIS, Univ. of Southern California, President,  
 IMS
- 8:00 p.m.**  
**SHERATON PARK**  
**Baltimore Rm.**  
**CEA**
- CORPORATE SOCIAL RESPONSIBILITIES**  
 Chairman: THEODORE V. PURCELL, S.J., Cambridge Center for  
 Social Studies  
**Corporate Social Responsibilities**, CLARENCE C. WALTON, Colum-  
 bia Univ.  
 Discussion:  
 JOHN A. COUGHLAN, O.S.A., Villanova Univ.

**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)
- 7:15 a.m.**  
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**AMA**
- UNIVERSITY OF WASHINGTON ALUMNI BREAKFAST**  
 Host: JOHN R. THOMPSON, Univ. of Georgia
- 7:15 a.m.**  
**SHOREHAM**  
 Blue Rm.  
**ASA**
- SOCIAL STATISTICS SECTION—BREAKFAST MEETING (All Section Members Invited) (Fee event)**  
 Chairman: JACOB J. FELDMAN, Harvard Univ., Section Chairman
- 7:30 a.m.**  
**SHOREHAM**  
 Board Rm.  
**ASA**
- ADVISORY BOARD BREAKFAST MEETING—SECTION ON PHYSICAL AND ENGINEERING SCIENCES (By invitation)**  
 Chairman Pro Tem: CARL A. BENNETT, Battelle-Northwest
- 8:00 a.m.**  
**SHERATON PARK**  
 Madison Rm.
- UNIVERSITY OF OKLAHOMA ECONOMICS DEPARTMENT—BREAKFAST**
- 8:00 a.m.**  
**SHERATON PARK**  
 Hamilton Rm.
- UNIVERSITY OF OREGON COLLEGE OF BUSINESS ADMINISTRATION —BREAKFAST**
- 8:00 a.m.**  
**SHERATON PARK**  
 Continental Rm.
- CURRENT ECONOMIC RESEARCH IN HEALTH FIELD—BREAKFAST**
- 8:30 a.m.**  
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**AFEA**
- 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
- 8:30 a.m.**  
**SHERATON PARK**  
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**ODE**
- GRADUATE STUDENT SESSION**  
 (Joint Session with "The American Economist," Journal of Omicron Delta Epsilon)  
 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  
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### 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.

8:30 a.m.  
SHERATON PARK  
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### 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

**The New Census Bureau Survey of Consumer Buying Expectations**, JOHN McNEIL and THOMAS STOTERAU, U. S. Bur. of the Census

**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. SCHEUER, 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.  
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### 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. FEL-LEGI and K. J. KROTKI, Dominion Bur. of Statistics

**Evaluation Programme of the 1966 Census of Canada**, K. J. KROTKI, R. C. MUIRHEAD and R. PLATEK, Dominion Bur. of Statistics  
**Computer Methods for Geographical Coding and Retrieval of Data in the Dominion Bureau of Statistics**, I. P. FELLEGI and J. I. WELDON, Dominion Bur. of Statistics

Discussion:

CONRAD TAEUBER, U. S. Bur. of the Census  
 J. F. KANTNER, Univ. of Western Ontario

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

**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.  
**SHOREHAM**  
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**ASA**

**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.

**Prior Investigation of the Validity of a Set of Experimental Data**, B. IGLEWICZ, Case Western Reserve Univ., R. H. MYERS and CLYDE Y. KRAMER, Virginia Polytechnic Inst.

**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.  
**SHERATON PARK**  
 Annapolis Rm.  
**ES**

**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 TELSER, Univ. of Chicago

8:30 a.m.  
**SHERATON PARK**  
 Wilmington Rm.  
**ES**

**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

**On Pooling of Cross-Section and Time Series Data**, V. K. CHETTY, Columbia Univ.

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.

**Time Trends in the Benefits from Retraining in Connecticut**, MICHAEL E. BORUS and EINAR HARDIN, Michigan State 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

(8:52) **Estimation of the Larger of Two Normal Means**, S. BLUM-ENTHAL, A. COHEN, New York Univ., Rutgers Univ.

(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.

(9:25) **On Pooling Means When Variance is Unknown**, C. HAN and T. BANCROFT, Iowa State Univ.

(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 FTC'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.

**Product Image: The Needs,** WALLACE W. ELTON, International Exec. Serv. Corp.

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

**GOVERNMENT RESEARCH AND MARKETING IMPACT**

Chairman: DALE L. ANDERSON, U. S. Dept. of Agriculture  
**The Economic Impact of Federal Research and Development Programs**, H. E. RILEY, National Science Foundation  
**The Urban Information System—Its Potential Impact on Marketing Technology**, HAROLD GOLDSTEIN, Battelle Memorial Inst.  
**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**  
 Military Rm.  
 AMA

**GOVERNMENT-CORPORATE INTERESTS: INDUSTRY PERSPECTIVES**

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**  
 Frederick Rm.  
 AFE

**THE RELEVANCE OF EDUCATION TO DEVELOPMENT AND GROWTH**

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**  
 Dover Rm.  
 AEA

**ROUND TABLE ON THE ECONOMICS OF ENVIRONMENTAL MANAGEMENT**

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**  
 Regency Rm.  
 AEA

**ROUND TABLE ON THE ECONOMICS OF HIGHER EDUCATION**

Moderator: CHARLES KILLINGSWORTH, Michigan State Univ.  
 Panel:  
 CLARK KERR, Univ. of California, Berkeley  
 WILBUR J. COHEN, U.S. Dept. of Health, Education, and Welfare  
 ALAN CARTTER, New York Univ.  
 GERARD BRANNON, U.S. Treasury Dept.

10:30 a.m.  
**SHERATON PARK**  
 Sheraton Hall  
 AFA

**MEASUREMENT OF PERFORMANCE OF SECURITY PORTFOLIOS**

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.



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

**MODELS IN ADVERTISING AND MARKETING**

Chairman: SOLOMON DUTKA, Audits & Surveys, Inc.

**The Use of Psychometric Scaling Techniques for the Analysis of Consumer Perception and Preference**, MICHAEL H. HALBERT, Marketing Science Inst.

**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

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

**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

10:30 a.m.  
SHOREHAM  
Forum  
ASA  
IMS

**SEQUENTIAL METHODS**

Chairman: HERBERT T. DAVID, Iowa State Univ. and Univ. of Minnesota

**Stochastic Systems with Controlled Variance**, M. H. DeGROOT and R. P. HACKLEMAN, Carnegie-Mellon Univ.

**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.

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

**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

**On the Character and Influence of Nonresponse in the Current Population Survey**, CHARLES JONES and SUSAN PALMER, U. S. Bur. of the Census

**The Sampling of Experiments**, WILLIAM G. MADOW, Stanford Research Inst.

Discussion:

EARL E. HOUSEMAN, U. S. Dept. of Agriculture  
HAROLD NISSELSON, Operations Research, Inc.

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

**CONTRIBUTED PAPERS—GENERAL**

Chairman: M. V. JOHNS, JR., Stanford Univ.

**Minimum Expected Loss Estimators of Individual Values of a Random Variable**, NED SHILLING, Pennsylvania State 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.

10:30 a.m.  
SHERATON PARK  
Baltimore Rm.  
ACE

#### IS ECONOMIC THEORY CULTURE-BOUND?

Chairman: C. ADDISON HICKMAN, Southern Illinois Univ.

**Social and Political Factors and Economic Growth: Further Evidence 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.

10:30 a.m.  
SHERATON PARK  
Franklin Rm.  
CEA

#### ECONOMIC IMPLICATIONS OF UNITED STATES MANPOWER PROGRAMS

Chairman: JOHN J. HOOKER, Catholic Univ.

**Manpower Studies Currently Being Undertaken by the Joint Economic 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.

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

#### 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.

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

#### 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, Michigan State Univ.

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

**The Asymptotic Theory of Certain Characteristic Roots of Econometric Equation Systems**, G. V. L. NARASIMHAM, Kansas State Univ.

**On Computing Zellner-Theil's Three Stage Least Squares Estimates**, RANGANATHAN NARAYANAN, Yale Univ.

**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. SALSBERG, Univ. of Pennsylvania

10:30 a.m.

SHERATON PARK  
Annapolis 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.

**Education and Economic Development—An Optimizing Approach**, IRMA ADELMAN, FRED GOLLADAY and MARSHA GEIER, Northwestern 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  
No. Cotillion Rm.  
ES

**EMPLOYMENT AND THE LABOR MARKET**

Chairman: ARTHUR M. ROSS, U. S. Bur. of Labor Statistics

**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.

10:30 a.m.

SHERATON PARK  
Park Rm.  
ES

**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.

a.m.  
 ATLON  
 ral Rm.  
 IRRA  
 AEA

### 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 NORTHROP, Univ. of Pennsylvania

Discussion:

JOSEPH ULLMAN, Purdue Univ.

MYRON L. JOSEPH, Carnegie-Mellon Univ.

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

### 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

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

### 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

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

### 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

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

### CONTRIBUTED PAPERS—V

Chairman: M. HALPERIN, National Inst. of Health

(11:35) **On Batch Service with Balking in the Single Server Queueing Process**, R. DICK, C. W. Post Coll.

(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.

(12:19) **Comparison of Rao-Hartley-Cochran Estimate in Unequal Probability Sampling with Ratio Estimate and its Application to Sampling on Successive Occasions**, B. SUKHATME, M. AVADHANI, Iowa State Univ., Indian Soc. of Agricultural Stat.

12:00 noon  
 SHERATON PARK  
 Richmond Rm.  
 AEA

### TRANSPORTATION AND PUBLIC UTILITIES GROUP—LUNCHEON

- 12:00 noon**  
**WASH.-HILTON**  
**International**  
**Ballroom—Center**  
**AMA**
- PRESIDENT'S LUNCHEON (Fee Event)**  
Chairman: ROBERT J. HOLLOWAY, Univ. of Minnesota, President, AMA  
Speaker: ALEXANDER B. TROWBRIDGE, Secretary of Commerce
- 12:00 noon**  
**SHERATON PARK**  
**Madison Rm.**  
**ACE**
- BUSINESS MEETING—LUNCHEON**
- 12:00 noon**  
**SHERATON PARK**  
**Arlington Rm.**
- AMERICAN BANKERS ASSOCIATION LUNCHEON FOR STONIER FELLOWSHIP WINNERS (By invitation)**
- 12:30 p.m.**  
**SHERATON PARK**  
**Continental Rm.**  
**AFEA**
- LUNCHEON (Fee event)**  
Chairman: E. CLINTON STOKES, U.S. Chamber of Commerce  
**Central Banking and the Availability of Agricultural Credit**, ANDREW F. BRIMMER, Board of Governors of the Federal Reserve System
- 12:30 p.m.**  
**SHOREHAM**  
**Blue Rm.**  
**ASA**
- BUSINESS AND ECONOMIC STATISTICS SECTION—LUNCHEON MEETING (All Section Members Urged to Attend; Guests are Cordially Invited) (Fee event)**  
Chairman: WILLIAM F. BUTLER, Chase Manhattan Bank, Section Chairman
- 12:30 p.m.**  
**SHOREHAM**  
**Tudor Rm.**  
**ASA**
- SECTION ON PHYSICAL AND ENGINEERING SCIENCES—MEETING (All Section Members Invited)**  
Chairman: ROBERT HOOKE, Westinghouse Research & Development Center, Section Chairman
- 12:30 p.m.**  
**SHERATON PARK**  
**Alexandria Rm.**  
**CEA**
- PRESIDENTIAL LUNCHEON**  
Chairman: JAMES M. CAHILL, Manhattan Coll.  
Presidential Address:  
**Social Implications of United States Manpower Programs**, EDMUND A. KURTH, Loras Coll., President, CEA
- 12:30 p.m.**  
**STATLER-HILTON**  
**Pan American Rm.**  
**IRRA**
- IRC LUNCHEON MEETING (By invitation)**  
Directors of University Labor and Industrial Relations Centers  
Co-Chairmen:  
RONALD HAUGHTON, Wayne State Univ.  
DALE YODER, California State Coll., Long Beach
- 12:30 p.m.**  
**STATLER-HILTON**  
**Massachusetts Rm.**  
**IRRA**
- LOCAL CHAPTER PRESIDENTS' LUNCHEON (By invitation)**  
Chairman: DAVID B. JOHNSON, Univ. of Wisconsin
- 12:30 p.m.**  
**SHERATON PARK**  
**Adams Rm.**  
**ASSA**
- JOURNAL EDITORS LUNCHEON (By invitation)**

2:00 p.m.  
**SHERATON PARK**  
 Annapolis Rm.  
**AREUEA**

### **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.

2:00 p.m.  
**SHOREHAM**  
 Empire Rm.  
**ASA**  
**AEA**

### **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

**Policy Objectives and Systems Measurement**, NESTOR E. TERLECKYJ, U.S. Bur. of the Budget

Discussion:

OTTO ECKSTEIN, Harvard Univ.

EDWARD M. FOSTER, Univ. of Minnesota

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

### **CONTRIBUTED PAPERS—BUSINESS & ECONOMIC STATISTICS—I**

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.

**An International Comparison of Unit Labor Costs in the Iron and Steel Industry: United States, France, Germany and United Kingdom; 1964**, DAVID WISE, U.S. Bur. of Labor Statistics

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

### **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.

2:00 p.m.  
**SHOREHAM**  
 Forum  
**ASA**

### **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.**  
**AFFE**

**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**

**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.

**ASA**

**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

**DESCRIPTIVE 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  
**Some Micro-Economic Properties of Vintage-Type Capital Models**, RONALD BRITTO, Tufts Univ.  
**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  
**(2:11) The Power of Some Tests for Uniformity of a Circular Distribution**, R. BERAN, Johns Hopkins Univ.  
**(2:22) Asymptotic Bayes Sequential Tests of the Null Hypothesis: (Preliminary Report)**, T. BROWN, JR., Michigan State Univ.



**(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

**(3:17) The Asymptotic Behavior of the Smirnov Test Compared to Standard "Optimal Procedures,"** G. KALISH, P. MIKULSKI, Howard Univ., Univ. of Maryland

**(3:28) A Likelihood Ratio Test Paradox**, B. SHAH, Research Triangle Inst.

**(3:39) On Choosing a Delta-Sequence (Preliminary Report)**, M. WOODROOFE, Carnegie-Mellon Univ.

**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.

**A Cross-Cultural Comparison of the Soviet and American Consumer**, MARSHALL I. GOLDMAN, Wellesley Coll.

**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.

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**Would We Have Anything to Say?**, MICHAEL H. HALBERT, Marketing Science Inst.

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

2:15 p.m.  
WASH.-HILTON  
Crystal—  
West & East  
AMA

**MARKETING EDUCATION AND RESEARCH ACTIVITIES: DISSERTATION RESEARCH COMPETITION**

Chairman: J. L. HESKETT, Harvard Univ.

2:15 p.m.  
WASH.-HILTON  
Military Rm.  
AMA

**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

**Estimation of Structural Parameters of Marketing Systems: Theory and Application**, JOHN U. FARLEY, Carnegie-Mellon Univ.

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

2:30 p.m.  
SHERATON PARK  
Sheraton Hall  
AEA

**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

2:30 p.m.  
SHERATON PARK  
Park Rm.  
AEA

**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

**Ecological Processes in Economic Change: Models, Measurement and Meaning**, RUTH P. MACK, Inst. of Public Admin.

Discussion:

PETER de JANOSI, Ford Foundation

HAROLD W. WATTS, Univ. of Wisconsin

2:30 p.m.  
SHERATON PARK  
So. Cotillion Rm.  
AEA

**ECONOMICS OF ARMS CONTROL AND DISARMAMENT**

Chairman: ARCHIBALD S. ALEXANDER, U.S. Arms Control and Disarmament Agency

**The Monetary and Real Costs of National Defense**, EMILE BENOIT, Columbia Univ.

**Economic Sanctions and Rewards in Support of Disarmament Treaties**, MORRIS BORNSTEIN, 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.

2:30 p.m.  
SHERATON PARK  
Franklin Rm.  
AFA

**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

2:30 p.m.  
STATLER-HILTON  
Federal Rm.  
IRRA

**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**

## THURSDAY

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- 10 p.m.**  
**SHERATON PARK**  
**Frederick Rm.**  
**AFEE**
- THE DETERMINANTS OF AGGREGATE CONSUMPTION AND THE EVOLUTION OF VALUE**  
 Chairman: 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.
- 4:00 p.m.**  
**SHOREHAM**  
**Empire Rm.**  
**ASA**  
**ENAR-WNAR**  
**IMS**
- R. A. FISHER MEMORIAL LECTURE**  
 Chairman: GERTRUDE M. COX, Research Triangle Inst.  
**Some Perspectives in Data Analysis**, JOHN W. TUKEY, Princeton Univ. and Bell Telephone Labs.
- 4:30 p.m.**  
**SHERATON PARK**  
**Park Rm.**  
**ES**
- PRESIDENTIAL ADDRESS**  
 Chairman: ALBERT ANDO, Univ. of Pennsylvania  
**Are There Laws of Consumption?**, HENDRIK S. HOUTHAKKER, Harvard Univ. and Council of Economic Advisers, President, ES
- 5:00 p.m.**  
**SHERATON PARK**  
**Frederick Rm.**  
**AFEE**
- GENERAL BUSINESS MEETING FOLLOWED BY BOARD MEETING**
- 5:00 p.m.**  
**STATLER-HILTON**  
**Federal Rm.**  
**IRRA**
- GENERAL MEMBERSHIP MEETING**
- 5:00 p.m.**  
**SHERATON PARK**  
**Suite M-757/9**
- AMHERST COLLEGE—COCKTAIL PARTY (For Alumni, Faculty (Past and Present) and Invited Guests)**
- 5:00 p.m.**  
**SHERATON PARK**  
**Richmond-**  
**Arlington Rm.**
- UNIVERSITY OF MINNESOTA DEPARTMENT OF ECONOMICS—COCKTAIL PARTY**
- 5:15 p.m.**  
**SHERATON PARK**  
**Annapolis Rm.**
- YALE UNIVERSITY ECONOMICS DEPARTMENT—COCKTAIL PARTY (For all current and former students and faculty)**
- 5:30 p.m.**  
**SHOREHAM**  
**Heritage Rm.**  
**ASA**
- COUNCIL MEETING AND DINNER (By invitation)**  
 Chairman: FREDERICK MOSTELLER, Harvard Univ., President, ASA
- 5:30 p.m.**  
**SHOREHAM**  
**Tudor Rm.**  
**IMS**
- BUSINESS MEETING**  
 Chairman: T. E. HARRIS, Univ. of Southern California, President, IMS

5:30 p.m.  
SHERATON PARK  
Madison Rm.  
ODE

**OMICRON DELTA EPSILON RECEPTION (By invitation)**

6:30 p.m.  
ENAR

**ANNUAL BANQUET (Fee event)**  
(Avignone 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 MARSCHAK, 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**

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*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.)

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*Books on economic theory and analysis from HRW . . .*

## **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.

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## **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.)



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# 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

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## ISSUES IN BANKING AND MONETARY ANALYSIS

Edited by GIULIO PONTECORVO, ROBERT P. SHAY and ALBERT GAILLORD HART, all of *Columbia University*

1967

256 pp.

\$7.50

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## **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

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## **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.)



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# ***Forthcoming from Irwin—1968***

**THE AMERICAN ECONOMY:** Principles, Practices, and Policies, Sixth Edition. By C. Lowell Harriss, *Columbia University*

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.

**MANAGERIAL ECONOMICS:** Text, Problems, and Short Cases, Third Edition. By Milton H. Spencer, *Wayne State University*

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*

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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*

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*by Kong Chu, Georgia Institute of Technology*

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**Charles Y. Glock, *Editor***

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Charles Y. Glock

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Herbert McClosky

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

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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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Chairman: DAVID G. MOORE, Cornell Univ.
- 7:15 a.m.**  
**SHOREHAM**  
**Blue Rm.**  
**ASA**      **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.**  
**SHERATON PARK**  
**Richmond Rm.**      **NORTHWESTERN UNIVERSITY ALUMNI—BREAKFAST**
- 7:30 a.m.**  
**SHOREHAM**  
**Directors Rm.**  
**ENAR**      **REGIONAL COMMITTEE—BREAKFAST MEETING (By invitation)**  
Chairman: PAUL MEIER, Univ. of Chicago, Regional President
- 7:30 a.m.**  
**SHOREHAM**  
**D. Riley's Suite**      **TECHNOMETRICS ASSOCIATE EDITORS—BREAKFAST MEETING (By invitation)**  
Chairman: FRED C. LEONE, Univ. of Iowa, Technometrics Editor
- 7:30 a.m.**  
**SHERATON PARK**  
**West Balcony-**  
**Sheraton Hall**      **CASE INSTITUTE ECONOMICS-IN-ACTION ALUMNI—BREAKFAST (By invitation)**
- 7:30 a.m.**  
**SHERATON PARK**  
**Alexandria Rm.**      **OHIO STATE UNIVERSITY DEPARTMENTS OF ECONOMICS AND BUSINESS ORGANIZATION—BREAKFAST**
- 8:00 a.m.**  
**SHERATON PARK**  
**Adams-**  
**Hamilton Rm.**      **UNIVERSITY OF COLORADO ECONOMICS ALUMNI—BREAKFAST**
- 8:00 a.m.**  
**SHERATON PARK**  
**Continental Rm.**      **INDIANA UNIVERSITY ALUMNI—BREAKFAST**
- 8:30 a.m.**  
**SHERATON PARK**  
**Madison Rm.**      **CHAIRMEN OF ECONOMICS DEPARTMENTS—BREAKFAST (By invitation)**  
Chairman: E. CARY BROWN, Massachusetts Inst. of Technology
- 8:30 a.m.**  
**SHERATON PARK**  
**Franklin Rm.**      **NEW YORK UNIVERSITY—BREAKFAST (Fee event)**

8:30 a.m.  
**SHERATON PARK**  
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 AEA

**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 ATTIYEH, 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

8:30 a.m.  
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 Park Rm.  
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**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.

8:30 a.m.  
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**RECENT ECONOMETRIC ANALYSES IN AGRICULTURE**

Chairman: G. JUDGE, Univ. of Illinois

**Estimation of Demand for Food and Other Products, Assuming Ordinarily 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.

8:30 a.m.  
**SHERATON PARK**  
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**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.

**Critical Evaluation of Pension Funds**, WILLIAM T. GIBB, U.S. Treasury Dept.

Discussion:

DAN MCGILL, Univ. of Pennsylvania

JAMES A. ATTWOOD, Equitable Life Assurance Society

8:30 a.m.  
SHERATON PARK  
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Annapolis Rm.  
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**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.  
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**CONTRIBUTED PAPERS—PHYSICAL AND ENGINEERING SCIENCES—II**

Chairman: ROBERT H. RODINE, State Univ. of New York, Buffalo

**A Numerical Investigation of Several One-dimensional Search Procedures in Nonlinear Regression Problems**, P. D. FLANAGAN, P. A. VITALE and J. MENDELSON, Grumman Aircraft Engineering Corp.

**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. TIETJEN, 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. CAMPBELL, National Center for Health Statistics

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

Chairman: A. BARTHOLOMAY, North Carolina State Univ.

**Some New Aspects of Dynamical Systems Theory as Applied to Problems of Cellular Control**, ROBERT ROSEN, State Univ. of New York, Buffalo

**A Mathematical Model for the Study of Granulocyte Kinetics Using Labelled DNA**, WILLIAM M. O'FALLON, Duke Univ.

**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

8:30 a.m.  
SHOREHAM  
Board Rm.  
ENAR-WNAR  
ASA

### CONTRIBUTED PAPERS—BIOMETRICS I

Chairman: EUGENE LEHMAN, Northern Michigan Univ.

**Maximum Likelihood and Estimation of Survival Curve Parameters**, E. L. FROME and J. J. BEAUCHAMP, Oak Ridge National Lab.

**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

### MONEY 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. RENSCHAW, U.S. Bur. of the Budget

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

### INVITED PAPERS BY DISTINGUISHED FOREIGN SCHOLARS

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.

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

### 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.

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

### 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

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

### CONTRIBUTED PAPERS—VII

Chairman: J. MULLOOLY, National Inst. of Health

(8:30) **Some Properties of the Incomplete Beta Function**, T. CACOULLOS, New York Univ.

(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.

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:  
 THOMAS F. SCHUTTE, Univ. of Pennsylvania  
 SEYMOUR BARANOFF, Pace Coll.  
 CLAIRE CORBIN, Fordham Univ.

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

### **MARKETING CHANNELS**

Moderator: LOUIS P. BUCKLIN, Univ. of California, Berkeley  
 Position Papers:  
**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. GOLDSTUCKER, 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

CHARLES COLLAZZO, JR., Northeastern Univ.  
 RONALD FOX, Harvard Univ.  
 JOHN KENNEDY, Univ. of Notre Dame

9:00 a.m.  
**WASH.-HILTON**  
 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.  
**WASH.-HILTON**  
 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.

- 9:00 a.m.**  
**WASH.-HILTON**  
**Ballroom—East**  
**Professional**  
**Dialogue**  
**AMA**
- 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
- 9:00 a.m.**  
**WASH.-HILTON**  
**Ballroom—East**  
**Professional**  
**Dialogue**  
**AMA**
- 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.
- 10:30 a.m.**  
**SHERATON PARK**  
**Park Rm.**  
**AEA**
- ROUND TABLE ON THE SCIENTIFIC-MILITARY-INDUSTRIAL COM-  
PLEX 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.
- 10:30 a.m.**  
**SHERATON PARK**  
**No. Cotillion Rm.**  
**AEA**
- 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.
- 10:30 a.m.**  
**SHERATON PARK**  
**Sheraton Hall**  
**AFA**
- 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  
**The Mortgage Market-Income Properties**, JAMES J. O'LEARY, Lionel D. Edie & Co.  
**Government Securities**, ROBERT H. BETHKE, Discount Corp. of America  
**Equities**, ROGER F. MURRAY, Teachers Insurance and Annuity Assn.
- 10:30 a.m.**  
**SHERATON PARK**  
**Baltimore-**  
**Annapolis Rm.**  
**AREUEA**
- 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

**Statistical Analysis for Corporate Simulation**, JOHN D. HOGAN, Northwestern Mutual Life Insurance Co.**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.

**On Aspects of Under-Utilization of Human Resources**, HAROLD GOLDSTEIN, U.S. Bur. of Labor Statistics**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.

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

**BIOMATHEMATICS—II**

Chairman: A. BARTHLOMAY, 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

10:30 a.m.  
**SHERATON PARK**  
 So. Cotillion Rm.  
 ES

**STUDIES IN WAGE-PRICE BEHAVIOR**

Chairman: FRANK BRECHLING, Northwestern Univ.

**Price Equations**, OTTO ECKSTEIN, Harvard Univ. and GARY FROMM, Brookings Inst.

**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

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

**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 Insts. of Technology and JAMES MIRRLEES, Cambridge Univ.

Discussion:

KARL SHELL, Massachusetts Inst. of Technology

RICHARD NELSON, RAND Corp.

ROBERT DORFMAN, Harvard Univ.

10:30 a.m.  
**SHERATON PARK**  
 Wilmington Rm.  
 ES

**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 Macro-economic 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

**(11:35) A Bayesian Analysis of Pilot Surveys**, S. CHATTERJEE, New York Univ.

**(11:46) Testing the Validity of a Basic Model Occurring in Optimum  $\pi$ ps Sampling**, T. HANURAV, Texas A&M Univ.

**(11:57) A New Estimation Theory for Sample Surveys**, H. HARTLEY and J. RAO, Texas A&M Univ.

**(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)**

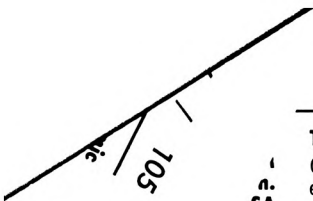
**President-Elect's Luncheon**

Chairman: VICTOR P. BUELL, American Standard, President-Elect, AMA

**Government-Marketing Interfaces: Future Prospects**, WENDELL R. SMITH, Marketing Science Inst.

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

**Consumer-Marketing Interfaces: Future Prospects**, NELSON N. FOOTE, General Electric Co.



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SA  
AEA  
AFA

3:30 p.m.  
SHOREHAM  
Heritage Rm.  
ENAR

12:30 p.m.  
SHOREHAM  
Board Rm.  
WNAR

12:30 p.m.  
STATLER-HILTON  
Congressional Rm.  
IRRA

2:00 p.m.  
SHERATON PARK  
No. Cotillion Rm.  
AFA

2:00 p.m.  
SHERATON PARK  
Baltimore-  
Annapolis Rm.  
AFA  
AREUEA

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

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**THE ECONOMIC OUTLOOK FOR 1968—LUNCHEON (Fee event)**

Chairman: MARTIN R. GAINSBROUGH, 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

**ANNUAL BUSINESS MEETING (All Members of the Region Invited)**

Chairman: FRANKLIN A. GRAYBILL, Colorado State Univ., Regional President

**PRESIDENTIAL LUNCHEON (Fee event)**

Chairman: GEORGE P. SHULTZ, Univ. of Chicago

Presidential Address: **Some Second Thoughts on the Concept of Human Capital**, NEIL W. CHAMBERLAIN, Columbia Univ.

**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**, HALBERT 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.

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

### **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

**Area Differences in Living Costs**, HELEN H. LAMALE and JEAN C. BRACKETT, U. S. Bur. of Labor Statistics

**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

2:00 p.m.  
SHOREHAM  
Forum  
ASA

### **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

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

### **THE DEVELOPMENT OF INTERNATIONAL BUSINESS PROGRAMS**

Speaker: DOUGLAS F. LAMONT, Univ. of Alabama

Discussant: PHILLIP D. GRUB, George Washington Univ.

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

### **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

**Some Limitations of Double-Blind Clinical Trials in Out-patient Populations**, S. M. FREE, JR., Smith Kline & French Labs.

2:00 p.m.  
SHERATON PARK  
Park Rm.  
ES  
AEA

### **ECONOMETRIC MODELS, THEIR PROBLEMS AND USEFULNESS**

Chairman: JACOB MARSCHAK, 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.

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

### 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 SONNENSCHNEIN, Univ. of Minnesota

**The Use of Response Surface Techniques in Economics**, THOMAS H. NAYLOR and DONALD S. BURDICK, Duke Univ. and KENNETH L. WERTZ, Carnegie-Mellon Univ.

Discussion:

CHARLES BISCHOFF, Yale Univ.

FRED WESTFIELD, Vanderbilt Univ.

ANTHONY BLACKBURN, Harvard Univ.

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

### 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

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

### 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.

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

### 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

2:30 p.m.  
SHERATON PARK  
Sheraton Hall  
AEA

- (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 MI-CHAEELIS, 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

2:30 p.m.  
STATLER-HILTON  
Federal Rm.  
IRRA  
ACE

**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.

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

**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.

2:45 p.m.  
SHERATON PARK  
Frederick Rm.  
AEIB

**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

3:00 p.m.  
SHOREHAM  
Executive Rm.  
ASA

#### 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.

3:00 p.m.  
SHOREHAM  
Board Rm.  
ASA

#### 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.

4:00 p.m.  
SHOREHAM  
Palladian Rm.  
ASA

#### 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**, SHELEMYAHU ZACKS, Kansas State Univ.

**Multivariate Normal Regression Analysis with Missing Observations**, R. R. HOCKING and W. B. SMITH, Texas A & M Univ.

4:00 p.m.  
SHOREHAM  
Empire Rm.  
ASA

#### FEDERAL STATISTICS—MAJOR DEVELOPMENTS

Chairman: GEOFFREY H. MOORE, National Bur. of Economic Research

**Approaching Crossroads in the Development of Federal Statistics**, RAYMOND T. BOWMAN, U. S. Office of Statistical Standards

4:00 p.m.  
SHERATON PARK  
Frederick Rm.  
AEIB

#### INTERNATIONAL BUSINESS: A CONCEPTUAL FRAMEWORK

Speaker: JOHN FAYERWEATHER, New York Univ.

Discussant: RICHARD D. ROBINSON, Massachusetts Inst. of Technology

4:00 p.m.  
SHOREHAM  
at Rm.  
WNAAR  
ASA

#### STATISTICS IN THE DRUG INDUSTRY—II: ETHICAL CONSIDERATIONS 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



4:00 p.m.  
SHOREHAM  
Executive Rm.  
ENAR-WNAR  
ASA

#### 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

**Square Root Transformation Revisited**, J. K. KIHLEBERG, J. H. HERSON and W. E. SCHOTZ, Cornell Aeronautical Lab.

**The Power of Conservative Tests of Significance in the Analysis of Variance**, JOSEPH L. FLEISS, New York State Psychiatric Inst. and Columbia Univ.

4:00 p.m.  
SHERATON PARK  
Dover Rm.  
ES

#### 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

4:00 p.m.  
SHOREHAM  
Forum  
IMS

#### DECISION THEORY

Chairman: LEO KATZ, Michigan State Univ.

**Asymptotic Results in Sequential Decision Theory**, GARY LORDEEN, Northwestern Univ.

**Admissible Procedures in Simple Estimation and Testing Problems**, LAWRENCE D. BROWN, Cornell Univ.

4:00 p.m.  
SHOREHAM  
Heritage Rm.  
IMS

#### 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.

(4:33) **Stochastic Approximation for Smooth Functions (Preliminary Report)**, V. FABIAN, 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

**(5:06) Stationary Point Processes Invariant Under Superposition (Preliminary Report)**, D. NEWMAN, Boeing Co.

**(5:17) Non-Discounted Denumerable Markovian Decision Models**, S. ROSS, Stanford Univ.

**(5:28) Optimal Stopping in a Markov Process**, H. TAYLOR, Cornell Univ.

**(5:39) Admissibility and Distribution of Some Probabilistic Functions of Discrete Finite State Markov Chains**, C. TSAO, Wayne State 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-**  
**Annapolis 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.**  
**ES**

**WALRAS-BOWLEY LECTURE**

Chairman: LIONEL MCKENZIE, Univ. of Rochester

**Competitive Equilibrium and Private Ownership**, HUKUKANE NIKAIKO, Osaka Univ.

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

**BUSINESS MEETING**

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

**ANNUAL MEMBERSHIP MEETING**

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

**UNIVERSITY OF CHICAGO ECONOMICS DEPARTMENT—COCKTAIL PARTY**

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

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY ECONOMICS DEPARTMENT—COCKTAIL PARTY**

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

**UNIVERSITY OF PENNSYLVANIA ECONOMICS DEPARTMENT—COCKTAIL PARTY**

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

**ANNUAL MEETING AND ELECTION OF OFFICERS**

Presidential Address, DAVID T. ROWLANDS, Univ. of Pennsylvania, President, AREUEA

11/15/81

- 
- 5:30 p.m.**  
**SHERATON PARK**  
Adams-  
Hamilton Rm.  
AEIB
- RECEPTION (By invitation)**
- 6:30 p.m.**  
**SHERATON PARK**  
Frederick Rm.  
AREUEA
- MEMBERSHIP COCKTAIL PARTY (By invitation)**
- 8:00 p.m.**  
**SHERATON PARK**  
Sheraton Hall  
AEA
- PRESIDENTIAL ADDRESS**  
Chairman: ARTHUR F. BURNS, Columbia Univ.  
**The Role of Monetary Policy**, MILTON FRIEDMAN, Univ. of Chicago, President, AEA
- 8:30 p.m.**  
**SHOREHAM**  
Empire Rm.  
ASA
- 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.  
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ENAR-WNAR  
IMS
- INFORMAL PARTY (Immediately following the Presidential Address (Fee event)**  
All Societies are invited



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7:30 a.m.  
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**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.  
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### 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. APLEYARD (Ph.D., Univ. of Michigan, 1966), Univ. of North Carolina

**The Tax Policy in Investment in Manufacturing, 1954-66**, ROBERT M. COEN (Ph.D., Northwestern Univ., 1967), Stanford Univ.

**A Distributed Lag Analysis of Adjustment of Size of Labor Force in Selected Major Labor Market Areas in the United States**, MAURICE PFANNSTIEL (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 &amp; Allied Products Inst.

PATRICK R. HUNTLEY, Center for Naval Analyses

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

**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. ROBISON, TRW Systems**A Bivariate Geometric Distribution**, A. S. PAULSON and V. R. R. UPULURI, Oak Ridge National Lab.**The Expectation of a Ratio of Non-Negative Random Variables and Some Present Meteorological Problems**, JOHN A. FLUECK, Univ. of Chicago

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

**SOCIAL INDICATORS**Chairman: ELEANOR BERNERT SHELDON, Russell Sage Foundation  
**Measuring the Trend in Social Stratification**, O. DUDLEY DUNCAN, Univ. of Michigan**Trends in the Work Force, 1900-1960**, STANLEY LEBERGOTT, Wesleyan Univ.**Concepts and Measures of Welfare**, IDA C. MERRIAM, Social Security Admin.

Discussion:

CHARLES B. NAM, Florida State Univ.

SAR A. LEVITAN, George Washington Univ.

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

**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-States 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

**Optimum Design, Congestion, and Tolls in a Waterway Transport System: Determination by Simulation**, CHARLES W. HOWE and ROBERT M. STEINBERG, Resources for the Future, Inc.

**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.

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

### 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.

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

### 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.

**(9:14) Likelihood Intervals, I: Introduction, and the Binomial Case**, D. HUDSON, Bell Telephone Labs.

**(9:25) An Extension of Paulson's Selection Procedure**, M. MAZUMDAR, Westinghouse Research Labs.

**(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.

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

### 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

**(9:25) An Optimal Ranking Procedure for M-Ordered Densities**, M. RIZVI, Stanford Univ.

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

**(9:47) Nonparametric Two-Sample Tests for Circular Distributions**, S. SCHACH, Stanford Univ.

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

**(10:09) Rank Order Tests for the Homogeneity of Dispersion Matrices**, P. SEN, M. PURI, Univ. of North Carolina, New York Univ.

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

**Selective Partitioning Approach to Time Series Analysis**, G. G. HINGORANI, Northern Natural Gas Co., SUSHILA J. GIDWANI, Manhattan Coll. and L. F. MARCZYNSKI, Northern Natural Gas Co.

**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 SHAFER, 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

**A Monthly Econometric Model of the Postwar U.S.: A Test of Feasibility**, TA-CHUNG LIU, Cornell Univ.

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.

**A New View of Real Investment in Structures, 1919-1965**, ROBERT J. GORDON, Harvard 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  
**New Price Methods in Government**, JOEL POPKIN, U. S. Bur. of Labor Statistics  
**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 Barbr  
CHARLES SCHOTTA, JR., Virginia Polytechnic Inst.

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

**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

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

**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

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

**CONTRIBUTED PAPERS—BIOMETRICS—IV**

Chairman: C. P. QUESENBERRY, North Carolina State Univ.

**Evaluation of Maximum Likelihood Estimates of Parameters in Mixtures of Normal Distributions**, D. G. GOSSLEE and K. O. BOWMAN, Oak Ridge National Lab.

**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. CHADDHA, 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.

**Utilization of Prior Knowledge when Estimating Variance Components**, E. C. TOWNSEND and S. R. SEARLE, Cornell Univ.

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

**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 BOSONS, Univ. of Toronto

Discussion:

MERTON MILLER, Univ. of Chicago

PAUL COOTNER, Massachusetts Inst. of Technology

WILBER G. LEWELLEN, Purdue Univ.

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

### 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. YOTOPOULOS, Univ. of Hawaii

ALFRED CONRAD, City Coll. of New York

CARLOS DIAZ, Univ. of Minnesota

2:00 p.m.  
SHOREHAM  
Forum  
IMS  
ASA

### 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.

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

### CONTRIBUTED PAPERS—XIII

Chairman: To be announced

(2:00) **Higher Moments of a Stopping Rule**, B. BROWN, Purdue Univ.

(2:11) **Some Contributions to the Theory of Homogeneous Random Fields on Locally Compact Abelian Groups (Preliminary Report)**, L. BRUCKNER, Catholic Univ.

(2:22) **Metric Spaces of Distribution Functions (Preliminary Report)**, R. HACKLEMAN, Carnegie-Mellon Univ.

(2:33) **Some Applications of the Indicator Random Variable**, E. KOUNIAS, University of Connecticut. (Introduced by R. Riffenburgh).

(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  $\{m, \sum_{i=1}^m P_i, \sum_{i < j} P_{ij}\}$** , 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.

(3:39) **Some New Conditions for the Strong Law**, H. TEICHER, Columbia Univ.

2:30 p.m.  
SHERATON PARK  
Park Rm.  
AEA

**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

Discussion:

HAROLD WEIN, Michigan State Univ.

ALLAN COTTA, Univ. of Caen

ALEXANDER NOWICKI, International Monetary Fund

2:30 p.m.  
SHERATON PARK  
Richmond-  
Arlington Rm.  
AEA

**NONMARKET DECISION MAKING**

Chairman: GORDON TULLOCK, Rice Univ.

**The Peculiar Economics of Bureaucracy**, WILLIAM A. NISKANEN, Inst. for Defense Analyses

**Some Organizational Influences on Urban Renewal Expenditures**, CHARLES PLOTT, Purdue Univ.

**Democracy and Duopoly: A Comparison of Models**, JAMES M. BUCHANAN, Univ. of Virginia

Discussion:

STEPHEN ENKE, TEMPO

OTTO A. DAVIS, Carnegie-Mellon Univ.

EARL THOMPSON, Univ. of California, Los Angeles

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## A

- Abegglen, James 51  
 Acheson, Roy 132  
 Adams, F. Gerard 66  
 Adams, Walter 102  
 Addelman, Sidney 43  
 Adelman, Irma 72, 73, 77  
 Agnew, R. 108  
 Ahlers, David M. 125  
 Aigner, D. J. 130  
 Akers, Donald S. 126  
 Alexander, Archibald S. 80  
 Alexis, Marcus 50  
 Alfasso, Herbert 107  
 Allen, D. 44  
 Almon, Clopper 43  
 Amstutz, Arnold E. 46  
 Andersen, Leonall 98  
 Anderson, D. 44  
 Anderson, Dale L. 70  
 Anderson, W. H. Locke 65, 130  
 Ando, Albert 82, 130  
 Andreassen, Alan R. 50  
 Aoki, Masahiko 65  
 Appleyard, Dennis R. 125  
 Archibald, G. C. 127  
 Arnold, J. 68  
 Arnold, Robert K. 43  
 Aroian, L. A. 126  
 Arrow, Kenneth 73  
 Asimakopulos, A. 78  
 Assenzo, J. R. 107  
 Athreya, Krishna 50  
 Atkeson, Thomas C. 71  
 Attiyeh, Richard 96  
 Attwood, James A. 96  
 Avadhani, M. 74  
 Axford, H. M. 131  
 Ayres, Clarence E. 53, 70
- B
- Bahadur, R. R. 105  
 Bahn, Anita K. 127, 132  
 Bailar, John C., III 104  
 Bailey, Martin 127  
 Bakke, E. Wight 81  
 Bancroft, T. A. 68, 110  
 Banks, Seymour 46  
 Baran, Paul 79  
 Baranoff, Seymour 100  
 Barbash, Jack 47  
 Bardhan, Pranab K. 78  
 Barkin, Solomon 109  
 Barlow, Richard E. 66, 128  
 Barlow, Robin 105  
 Barrett, Roger S. 81  
 Bartholomay, A. 98, 104  
 Bass, Frank M. 45  
 Basu, A. 68, 78  
 Bator, Francis M. 80  
 Bauman, Scott 70  
 Baumol, William J. 96  
 Bawden, D. Lee 77  
 Bayless, D. L. 49  
 Beale, Calvin L. 76  
 Beals, Ralph 108  
 Bear, Donald 104  
 Bearden, James H. 101  
 Beaton, William R. 76  
 Beauchamp, J. J. 98  
 Bechhofer, Robert E. 128  
 Becker, George H., Jr. 69  
 Becker, James F. 82  
 Behrman, Jere R. 133  
 Bell, Charles B. 76, 128  
 Benishay, Haskel 46, 131  
 Bennett, Carl A. 52, 65  
 Bennett, Peter D. 51  
 Benoit, Emile 81  
 Beran, R. 78  
 Bergner, Per-Erik E. 98  
 Bergson, Abram 129  
 Berk, K. 108  
 Berkman, Herman G. 102, 125  
 Berliner, Joseph S. 72  
 Berrettoni, J. N. 43  
 Berry, Brian J. L. 76  
 Berry, Dale W. 109  
 Bethke, Robert H. 102  
 Bhattacharyya, G. 128  
 Bickel, Peter J. 99  
 Bieri, Jurg 111  
 Billingsley, Patrick 78  
 Birnbaum, Allan 128, 133  
 Birnbaum, Z. 128  
 Bischoff, Charles 108  
 Black, Ronald P. 45  
 Blackburn, Anthony 108  
 Blackorby, Charles 78  
 Bliss, Perry 50  
 Bloom, George F. 112  
 Bloom, Max R. 103  
 Blum, J. R. 68  
 Blumenson, L. 72  
 Blumenthal, S. 68  
 Bobis, Arthur H. 106  
 Bogue, Donald J. 130  
 Bolton, Roger 97  
 Bonomo, Vittorio A. 131  
 Booth, Gordon 49  
 Bornstein, Morris 81  
 Borts, George H. 125  
 Borus, Michael E. 68  
 Borwanker, J. 68  
 Bose, R. 44  
 Bossons, John 132  
 Boulding, Kenneth E. 83, 102  
 Boutwell, Kenneth 96  
 Bowen, William G. 81  
 Bower, Richard S. 96  
 Bowman, K. O. 132  
 Bowman, Raymond T. 110  
 Box, G. E. P. 49, 106  
 Braaten, M. O. 98  
 Brackett, Jean C. 107  
 Bradley, H. E. 103  
 Bradley, Ralph A. 76  
 Brainard, William C. 96, 107  
 Brandow, George 96  
 Brannon, Gerard M. 70, 71  
 Branson, William 99  
 Brazer Harvey E. 66  
 Break, George F. 66  
 Brechling, Frank 73, 104  
 Breimyer, Harold F. 102  
 Breitenbach, Robert 51  
 Bressler, Tobia 132  
 Brimmer, Andrew F. 75, 131  
 Britto, Ronald 78  
 Brodsky, A. 127  
 Brodsky, Harold 97  
 Bronfenbrenner, Martin 104  
 Bross, Irwin D. J. 72, 110  
 Brown, Alan A. 105  
 Brown, B. 133  
 Brown, Byron W., Jr. 107  
 Brown, E. Cary 95  
 Brown, Lawrence D. 111  
 Brown, Murray 68, 130  
 Brown, Robert Kevin 102  
 Brown, T., Jr. 78  
 Brown, William J. 131  
 Bruckner, L. 133  
 Brunner, Karl 130  
 Bryant, W. Keith 106  
 Bryson, Marion R. 76  
 Buchanan, James M. 102, 134

Buchbinder, Benjamin 43  
 Bucklin, Louis P. 100  
 Buell, Victor P. 105  
 Buhler, Roald 98  
 Burdick, D. S. 46, 108  
 Burmeister, Edwin 78  
 Burns, Arthur F. 113  
 Burton, John F. Jr. 74  
 Butler, William F. 46, 75

C

Cacoullos, T. 99  
 Cady, Foster B. 110  
 Cahill, James M. 75  
 Cain, Glen G. 78  
 Cameron, J. 44  
 Campbell, Arthur A. 97, 130  
 Campbell, G. Sullivan 69  
 Campbell, Robert W. 129  
 Canner, Paul 107  
 Caplan, Nathan S. 105  
 Caplowitz, David 100  
 Capron, William 76, 81  
 Carlson, Jack W. 70  
 Carlson, Waldemar 74  
 Carman, James M. 46  
 Carovano, J. Martin 82  
 Carroll, Mavis B. 103  
 Carson, David 51  
 Carter, H. O. 106  
 Carter, Harry A. 51  
 Cartter, Alan 70  
 Cass, David 78  
 Cassell, Frank H. 99  
 Cateora, Philip R. 102  
 Chaddha, Roshan L. 71, 132  
 Chakrabarty, R. P. 49  
 Chakravarti, I. 44  
 Chamberlain, Neil W. 106  
 Chanda, K. 79  
 Chartener, William H. 97  
 Chatterjee, S. 105  
 Chenery, Hollis 73  
 Chernoff, Herman 83  
 Chetty, V. K. 67, 77  
 Chiazze, Leonard, Jr. 132  
 Chinitz, Benjamin 66  
 Chipman, John 129  
 Chopra, D. 44  
 Chow, Gregory 105  
 Christ, Carl F. 107  
 Christenson, Charles 132  
 Chu, S. F. 130

Cinlar, E. 111  
 Clark, Paul 73  
 Clewett, Robert L. 101  
 Clifford, Paul C. 43  
 Cochran, Kendall P. 49  
 Cochran, Robert S. 49  
 Cochran, William G. 77, 103, 131  
 Cockerham, C. C. 77  
 Cocks, Douglas 106  
 Coen, Robert M. 68, 125  
 Cohen, A. 68  
 Cohen, Wilbur J. 70  
 Cohnstaedt, Martin 125  
 Colberg, Marshall R. 96  
 Cole, Arthur H. 96  
 Coleman, R. 47  
 Colihan, William J., Jr. 69  
 Collazzo, Charles, Jr. 101  
 Collins, Gwyn 46  
 Comanor, William 108  
 Comer, J. P. 111  
 Conklin, George T., Jr. 102  
 Conlisk, John 78  
 Connor, Howard 50  
 Connor, R. J. 111  
 Conrad, Alfred 133  
 Conway, Lawrence V. 95  
 Cooke, Blaine 51  
 Coolsen, Frank G. 101  
 Cooper, Arnold C. 69  
 Cooper, Richard N. 80  
 Cooper, William H. 125  
 Cootner, Paul 132  
 Corbin, Arnold 100  
 Corbin, Claire 100  
 Cornfield, Jerome 47  
 Cotta, Allan 134  
 Coughlan, John A. 52  
 Coulter, Elizabeth J. 130  
 Cover, T. 108  
 Cox, Edwin B. 110  
 Cox, Gertrude M. 82  
 Cox, Keith K. 101  
 Cox, M. W. 97  
 Crane, Edgar 79  
 Crawford, C. Merle 101  
 Creamer, Daniel 126  
 Crispo, John H. G. 109  
 Crissey, W. J. E. 101  
 Crockett, Jean 108  
 Cron, Theodore O. 45  
 Cullen, Donald 103  
 Cullman, W. Arthur 79  
 Cutler, S. J. 72

D

Daley, D. 111  
 Dalton, George 72  
 Daly, Joseph F. 127  
 Danco, Jozef 99  
 Darroch, J. G. 67  
 Das Gupta, S. 50  
 Dasso, Jerome 76  
 Dauer, Ernst A. 81  
 David, Henry 45  
 David, Herbert T. 71, 111  
 David, Martin 107  
 Davidson, Paul 134  
 Davidson, Ralph K. 129  
 Davidson, William R. 79  
 Davis, Eric 127  
 Davis, Herbert T. 72  
 Davis, M. 132  
 Davis, Otto A. 134  
 Davis, Tom E. 77  
 DeGroot, M. H. 71  
 De Janosi, Peter 80  
 de Janvry, Alain 111  
 DeLeeuw, Frank 48, 130  
 DePodwin, H. J. 69  
 DePrano, Michael E. 73  
 DeSalvo, Joseph S. 68  
 de Schweinitz, Karl 70  
 Desu, M. M. 126  
 Dharmadhikari, S. 111  
 Dhrymes, Phoebus J. 105, 129  
 Diamond, Daniel E. 105  
 Diamond, Peter 104  
 Diaz, Carlos 133  
 Dick, R. 74  
 Dietz, Peter 70  
 Dillard, Dudley 45  
 Divita, Salvatore F. 69, 100  
 Dix, Leslie V. 45  
 Dixon, Wilfrid J. 52  
 Dobell, Rodney 78  
 Doede, Robert W. 77  
 Doksum, K. 79  
 Dolbear, F. Trenergy, Jr. 96, 127  
 Domar, Evsey D. 96  
 Dominguez, John 65  
 Dorfman, Joseph 45  
 Dorfman, Robert 104, 108  
 Downs, T. D. 104, 132  
 Drandakis, Emmanuel 127  
 Drane, J. W. 98  
 Dudewicz, E. 50  
 Duncan, D. B. 127

Duncan, O. Dudley 77, 126  
 Dunham, Allison 81  
 Dunn, Olive J. 132  
 Dunn, S. Watson 69  
 Durand, John D. 46  
 Dutka, Solomon 71

## E

Eckaus, Richard S. 73, 99  
 Eckstein, Otto 76, 104  
 Economos, A. E. 103  
 Eisner, Robert 126  
 Eldridge, Douglas H. 71  
 Elton, Wallace W. 69  
 Emery, James C. 129  
 Enis, P. 68  
 Enke, Stephen 134  
 Erickson, Leo G. 101  
 Esary, J. D. 66  
 Evans, Michael 105  
 Evans, Robert 104

## F

Fabian, V. 111  
 Fair, Ray C. 73  
 Fand, David I. 81  
 Farace, Vincent 102  
 Farley, John U. 80  
 Farrar, Donald 125  
 Fayerweather, John 110  
 Fearn, Robert M. 81  
 Feder, P. 44, 79  
 Federer, Walter T. 43, 67  
 Feinleib, M. 72  
 Feldman, Jacob J. 65  
 Feldman, S. 104  
 Fellegi, I. P. 66, 67, 77  
 Feltner, Richard L. 96  
 Fenske, Russell W. 129  
 Ferber, Robert 66, 111  
 Fertig, John W. 132  
 Finegan, T. Aldrich 103  
 Fisher, Franklin M. 72, 105  
 Fisher, Irving N. 132  
 Fisher, Joseph L. 70, 109  
 Fitzroy, Peter T. 80  
 Flanagan, P. D. 97  
 Fleiss, Joseph L. 111  
 Fletcher, Lee 102  
 Flueck, John A. 126  
 Fogel, Walter A. 74, 81  
 Foley, Duncan K. 67  
 Foltman, Felician 103  
 Foote, Nelson N. 105  
 Foreman, Charles W. 45

Foss, Murray 130  
 Foster, Edward M. 76, 108  
 Fouad, Mahmoud 65  
 Fox, Bennett 66  
 Fox, Karl 77, 133  
 Fox, Ronald 101  
 Frank, Ronald E. 80  
 Frankel, Charles 131  
 Franklin, Ian R. 77  
 Fraser, A. S. 77  
 Frechtling, John 66  
 Free, S. M., Jr. 107  
 Frei, Emil 110  
 Friedman, James W. 67, 127  
 Friedman, Milton 113  
 Frome, E. L. 98  
 Fromm, Gary 104  
 Fuchs, Victor 109  
 Fuerst, Joel 100  
 Furness, Betty 45

## G

Gabbe, J. D. 106  
 Gabriel, Reuben 47  
 Gabrielson, Ira W. 48  
 Gaffney, M. Mason 70  
 Gainsbrugh, Martin R. 106  
 Gallaway, Lowell E. 65  
 Gamaletsos, Theodore 108  
 Gams, John S. 53  
 Gardner, John W. 53  
 Garnsey, Morris E. 70  
 Gastwirth, J. 47  
 Gates, C. E. 77  
 Gatlin, Lila 104  
 Gehan, E. A. 98  
 Geier, Marsha 73  
 Geisser, S. 50, 68  
 Gentry, Dwight L. 101  
 Georgescu-Roegen, Nicholas 73  
 Gerig, T. M. 44  
 Gerschenkron, Alexander 96  
 Gibb, William T. 96  
 Gidwani, Sushila J. 129  
 Giesbrecht, F. G. 46  
 Gilbert, Milton 106  
 Gilbert, Roy F. 72  
 Gillies, James E. 106  
 Ginsburgh, Woodrow 68  
 Ginsberg, Eli 81  
 Givens, Meredith 70, 109  
 Glasser, J. 127  
 Gleser, L. 44  
 Goble, Ross L. 51  
 Goetz, Charles J. 66

Goldberger, Arthur S. 99, 108  
 Goldfeld, Stephen 49  
 Goldman, Marshall I. 79  
 Goldman, Steven M. 127  
 Goldstein, Harold 70, 103  
 Goldstucker, Jac L. 100  
 Golladay, Fred 73  
 Gombert, William 74  
 Goodman, Arnold F. 98  
 Goodman, Charles S. 100  
 Goodrich, Carter 45  
 Gordon, Jerome B. 46  
 Gordon, Kermit 80  
 Gordon, Robert J. 130  
 Gorman, John 103  
 Gosslee, D. G. 132  
 Gould, A. L. 132  
 Gourevitch, Vivian P. 127  
 Govindarajulu, Z. 128  
 Graham, Robert E., Jr. 43  
 Gramlich, Edward 48  
 Granbois, Donald H. 100  
 Graves, Charles 48  
 Graybeal, Ronald S. 76  
 Graybill, Franklin A. 106, 110  
 Green, Paul E. 47  
 Greenberg, B. G. 130  
 Greenwald, Douglas 43  
 Greif, Edwin C. 101  
 Grether, Ewald T. 45  
 Greysier, Stephen A. 69  
 Griego, Richard 44  
 Griffin, John I. 110  
 Grigsby, William G. 107  
 Griliches, Zvi 129, 131  
 Grizzle, James E. 47, 67  
 Grosse, Robert N. 76  
 Grove, Robert D. 126  
 Grub, Phillip D. 107  
 Gruchy, Allan 51  
 Gupta, Shanti S. 128  
 Gurland, J. 68  
 Guttman, I. 50, 68

## H

Hackleman, R. P. 71, 133  
 Hagen, Everett E. 96, 129  
 Hahn, Gerald J. 110  
 Hakansson, Nils 78  
 Halbert, Michael H. 71, 80  
 Hall, George R. 132



- Hall, Robert E. 72, 130  
Hall, W. Jackson 127  
Haller, H., Jr. 128  
Halperin, M. 74  
Hamilton, C. Horace 111  
Hamm, Curtis B. 51  
Han, C. 68  
Hansen, Alvin H. 66  
Hanurav, T. 105  
Harberger, Arnold C. 72  
Hardin, Einar 68  
Haren, Claude C. 76  
Harris, D. L. 111  
Harris, John R. 77  
Harris, T. E. 52, 82  
Hartley, H. O. 52, 105, 128  
Harvey, Robert O. 97  
Hathaway, Dale E. 65  
Haughton, Ronald 75  
Hayes, Douglas A. 70  
Haynes, Elliott 109  
Heifner, Richard G. 72  
Heilbronner, Robert L. 109  
Henley, Donald 79  
Henninger, Marie 107  
Herrick, Bruce 109  
Herrnstadt, Irwin L. 68  
Herson, J. H. 111  
Heskett, James L. 80, 100  
Hester, Donald D. 98  
Hewitt, Charles M. 45  
Hewitt, William E. 70  
Hickman, C. Addison 72  
Hickman, Roy 43  
Hildreth, Clifford G. 67, 96  
Hill, Lewis E. 49  
Hill, W. J. 106  
Hingarani, G. G. 129  
Hinich, M. 50  
Hirsch, H. R. 104  
Hirsch, Werner Z. 125  
Hjort, Howard W. 76  
Hoadley, Bruce 72  
Hocking, R. R. 110  
Hodgson, V. 99  
Hoeffding, Wassily 47, 74, 105  
Hoel, P. 108  
Hoerl, A. E. 43  
Hogan, John D. 103  
Hogben, David 133  
Hogue, W. Dickerson 109  
Hollander, M. 128  
Hollander, Stanley C. 80  
Hollmann, Walter P. 43  
Holloway, Robert J. 44, 75  
Holms, A. G. 43  
Holt, Charles C. 73  
Holton, Richard H. 45, 102  
Honigfeld, G. 104  
Hooke, Robert 75  
Hoeker, John J. 72  
Hooper, John 67  
Horowitz, Ann 129  
Horowitz, Ira 129  
Horowitz, Morris A. 68  
Horvitz, Daniel G. 71  
Hotelling, Harold 74  
Hou, T. 108  
Houck, James P. 67  
Hough, Robbin R. 125  
Houseman, Earl E. 71  
Houthakker, Hendrik 82  
Howard, John A. 45  
Howard, Marshall C. 101  
Howe, Charles W. 127  
Howick, George J. 45  
Howrey, E. Philip 130  
Hu, Sheng 127  
Hu, Teh-Wei 129  
Hudson, D. 128  
Humbaugh, P. 98  
Hunter, Holland 81  
Hunter, W. G. 106  
Huntley, Patrick R. 126  
Hurwicz, Leonid 73, 130  
Hutton, L. R. 67
- I
- Iglewicz, Boris 67, 97  
Ireland, N. J. 73  
Irish, Sumner 48  
Irwin, Richard 43
- J
- Jackson, J. Edward 97  
Jacques, John A. 127  
Jaffee, Dwight M. 98  
Jayachandran, T. 44  
Jeffrey, Walter 47  
Jenny, Hans H. 134  
Jensen, Michael 125  
Jogdeo, K. 108  
Johns, M. V., Jr. 71  
Johnson, David B. 75, 83  
Johnson, Harry 131  
Johnson, John P. 110  
Johnson, Norman L. 43, 99  
Johnson, Paul R. 96  
Johnson, R. 128  
Johnson, Robert 100  
Johnson, Robert W. 81  
Joiner, B. 79  
Jonas, Paul 76  
Jones, Charles 71  
Jones, Oliver H. 106  
Jones, Ronald 78  
Joseph, Myron L. 74, 96  
Judge, G. 72, 96  
Juncosa, Mario 98  
Jurkowitz, Eugene 103  
Juster, F. Thomas 66
- K
- Kabus, Irwin 103  
Kadane, J. 47  
Kafka, Alexandre 80  
Kahn, Robert L. 105  
Kain, John 68, 125  
Kale, B. 99  
Kalish, G. 79  
Kane, Edward J. 98  
Kannel, W. 47  
Kantner, J. F. 67  
Kanzawa, M. 50  
Kaplan, David L. 48  
Kaplan, Robert M. 51  
Kastenbaum, Marvin A. 48  
Katona, George 66, 80  
Katti, S. K. 68, 127  
Katz, Jacob E. 101  
Katz, Leo 67, 111  
Kaufman, Gordon 67  
Keegan, Warren J. 45  
Kelley, Allen C. 96  
Kelley, Eugene J. 70  
Kellogg, Frazer 74  
Kelsey, Paul J. 129  
Kemperman, J. H. B. 50  
Kempthorne, O. 49  
Kendrick, David 73  
Kendrick, John W. 126  
Kennard, Robert W. 43  
Kennedy, John 101  
Kerr, Clark 70  
Keyfitz, Nathan 49  
Kihlberg, J. K. 111  
Killingsworth, Charles 70  
King, Charles W. Jr. 50  
King, Joseph 72  
King, Robert L. 102  
Kirkpatrick, James 51  
Kish, Leslie 77  
Kiviat, Philip J. 46

- Klamann, Saul B. 102, 106  
 Klein, D. F. 104  
 Klotz, J. 44  
 Kmenta, Jan 72  
 Knowles, James W. 79, 131  
 Koch, G. G. 104  
 Koch, George W. 45  
 Koehler, Truman L. 106  
 Kojima, K. 77  
 Komisar, Jerome B. 51  
 Koopmans, L. H. 78  
 Koopmans, Tjalling 127  
 Kooros, A. 77  
 Kornbluh, Hyman 105  
 Kotler, Philip 51  
 Kotz, S. 99  
 Kounias, E. 133  
 Kramer, Clyde Y. 67  
 Kramer, K. 50  
 Kravis, Irving B. 131  
 Kresge, David 66  
 Krishnaiah, P. R. 128  
 Krotki, K. J. 66, 67  
 Krupp, Sherman 49  
 Kullback, S. 50  
 Kupinsky, Mannie 43  
 Kurth, Edmund A. 75  
 Kurz, Mordecai 127  
 Kutscher, Ronald 100  
 Kuznets, George M. 111  
 Kwerel, S. 133
- L**
- LaBarge, Richard A. 125  
 Lachenbruch, Peter A. 103  
 Lady, George M. 67  
 Lahne, Herbert J. 47  
 Lamale, Helen H. 107  
 Lambert, Zarrel V. 51  
 Lamont, Douglas F. 107  
 Lancaster, Kelvin 73, 104, 131  
 Lande, Henry F. 129  
 Larmon, Elizabeth A. 126  
 Laska, Eugene 128, 133  
 Latane, Henry A. 98  
 Laurent, A. 99  
 Lave, Lester B. 70  
 Lavidge, Robert J. 45  
 Lavoie, R. 109  
 Lawing, William D., Jr. 71  
 Lawrence, M. 133  
 Lawton, William H. 97  
 Lazer, William 44, 79  
 Learner, David B. 71
- Lebergott, Stanley 126  
 Ledley, R. S. 98  
 Ledyard, John O. 125  
 Lee, Anna M. 47  
 Lee, Maw Lin 131  
 Lee, Ronald B. 69  
 Lee, S. 99  
 Lee, T. C. 72  
 Lefcowitz, Myron J. 132  
 Lehman, Eugene 98  
 Leibenstein, Harvey 96  
 Leone, Fred C. 43, 95, 103  
 Lerner, Monroe 107  
 Letiche, John M. 80  
 Leuthold, Jane 107  
 Leveson, Irving 46, 109  
 Levitan, Sar A. 47, 81, 126  
 Levy, Albert 69  
 Levy, Sidney J. 50  
 Lewellen, Wilber G. 132  
 Lewis, Robert E. 131  
 Ley, Herbert 110  
 Leyton, Marley K. 104  
 Licari, Joseph 65  
 Lieberman, Gerald J. 127  
 Liebman, J. 104  
 Lill'efeld, A. M. 72  
 Linneman, Robert 101  
 Lintner, John V. 107  
 Lipkowitz, Irving 101  
 Lipsey, Richard G. 80  
 Lipsey, Robert E. 131  
 Liu, Ta-Chung 130  
 Lorden, Gary 44, 111  
 Lorie, James H. 77  
 Lower, Milton D. 77  
 Luck, David J. 51  
 Lund, D. 69  
 Lundegard, R. 68  
 Lymberopoulos, P. John 110  
 Lynn, Laurence E., Jr. 97  
 Lynn, Robert A. 101
- M**
- Machlup, Fritz 125  
 Mack, Ruth P. 80  
 Madow, William G. 71  
 Maisel, Sherman 106  
 Malone, John R. 79  
 Mandel, J. 78  
 Mangum, Garth L. 81  
 Mann, Nancy R. 98  
 Marascuilo, Leonard A. 49  
 Marcis, Richard G. 110
- Marcus, Burton H. 100  
 Marcus, L. F. 132  
 Marczynski, L. F. 129  
 Margolin, Barry H. 43  
 Marimont, Martin L. 43  
 Markham, Jesse W. 70  
 Marks, Norton E. 69  
 Marschak, Jacob 83, 107  
 Marshall, Carl E. 49  
 Martin, James 106  
 Martin, Margaret E. 107  
 Martin, Preston 106  
 Mason, Edward S. 102  
 Massell, Benton F. 77  
 Mathews, H. Lee 51  
 Mayer, Charles S. 101  
 Mayer, Robert C. 81  
 Mayer, Thomas 111  
 Maynes, E. Scott 66, 111, 130  
 Mazumdar, M. 128  
 McAlley, M. Ian 69  
 McClung, Nelson 71  
 McConnell, Campbell R. 96  
 McCool, John I. 97  
 McCracken, Paul 46  
 McDonough, Adrian 79  
 McFarland, William E. 105  
 McGill, Dan 96  
 McKechnie, Graeme H. 68  
 McKenzie, Lionel 67, 112  
 McNally, Gertrude Bancroft 81  
 McNeil, John 66  
 McPherson, William 83  
 McQuarrie, D. A. 104  
 McSweeney, Maryellen 49  
 McTague, J. P. 104  
 McVoy, Edgar C. 109  
 Meador, Rowe M. 102  
 Medvin, Norman 99  
 Mehta, J. 68  
 Meier, Paul 95, 106, 131  
 Melander, Eugene R. 111  
 Melman, Seymour 102  
 Melnick, Jack 47  
 Melton, Buford 51  
 Meltz, N. M. 109  
 Mendell, Herbert C. 45  
 Mendelsohn, J. 97  
 Menken, J. A. 49  
 Mensing, R. 111  
 Merriam, Ida C. 126  
 Messner, Stephen D. 97

Meyer, John R. 102, 125  
 Michaelis, Michael 109  
 Mickey, M. Ray 103  
 Miernyk, William H. 43  
 Mike, Valerie 128, 133  
 Mikulski, P. 79  
 Miller, James C., III 65  
 Miller, Merton 132  
 Mills, D. Quinn 103  
 Mills, Edwin 73  
 Milton, R. 44  
 Mindlin, Albert 47  
 Miner, Robert B. 101  
 Minsky, Hyman 65  
 Mirrlees, James 104  
 Miyazawa, Kenichi 99  
 Montgomery, Richard W. 65  
 Montias, John M. 99, 129  
 Mooney, Joseph 73  
 Moore, David G. 95  
 Moore, Felix E. 50, 112  
 Moore, Geoffrey H. 110  
 Morgan, James N. 80, 130  
 Morgenstern, Richard D. 78  
 Morris, Cynthia T. 72  
 Morrison, Donald F. 44  
 Morrison, Nathan 103, 107  
 Morse, Chandler 72  
 Morse, Dean W. 81  
 Moses, Lincoln 67  
 Moshman, Jack 71  
 Mosimann, J. E. 111  
 Mossman, Frank H. 101  
 Mosteller, Frederick 42, 53,  
 82, 95, 113  
 Mudholkar, G. 133  
 Mueller, Willard F. 70, 101  
 Muirhead, R. C. 67  
 Mullooly, J. 99, 111  
 Murphy, Frank 43  
 Murray, James M. 109  
 Murray, Joseph F. 99  
 Murray, Roger F. 96, 102  
 Murray, Tracy W. 109  
 Myers, Charles A. 68  
 Myers, John G. 46  
 Myers, Raymond H. 43, 67,  
 97

N

Nadiri, M. I. 126  
 Nagao, H. 50  
 Nam, Charles B. 126  
 Narasimham, G. V. L. 73

Narayanan, Ranganathan  
 73  
 Natrella, Vito 71  
 Naus, J. 108  
 Naylor, Thomas H. 46, 108  
 Neenan, William B. 125  
 Nehrt, Lee C. 109  
 Nelson, James R. 66  
 Nelson, Lloyd S. 43  
 Nelson, Louise 129  
 Nelson, Richard 104  
 Neter, John 130  
 Neuberger, Egon 65  
 Neuts, M. 74  
 Newman, D. 112  
 Ney, Peter 44, 50  
 Neyman, Jerzy 47  
 Nicholls, William H. 131  
 Nicosia, Francesco M. 46  
 Nieburg, H. L. 102  
 Niederhoffer, Victor 77  
 Nikaido, Hukukane 112  
 Niskanen, William A. 134  
 Nisselson, Harold 71  
 Noah, George L. 112  
 Noether, Gottfried E. 43, 99  
 Nordhaus, William D. 104  
 Norman, Morris 104  
 Northrup, Herbert 74  
 Nowicki, Alexander 134  
 Nugent, Jeffrey B. 73  
 Nuri, W. 50

O

O'Brien, Peter C. 126  
 O'Connor, J. Francis 106  
 O'Fallon, William M. 98  
 O'Hara, James 81  
 Okada, Louise 130  
 Okamoto, M. 50  
 Okner, Benjamin 107  
 Okun, Bernard 110  
 O'Leary, James J. 102  
 Olson, Alden C. 70  
 O'Neill, David 51  
 Ono, Mitsuo 46  
 Oppenheimer, Peter M. 80  
 Orcutt, Guy 125, 130  
 Orr, Daniel 108  
 Oser, Jacob 74  
 Oster, Robert J. 73  
 Ostry, Sylvia 109  
 Ott, R. Lyman 43  
 Owen, John 51  
 Owen, Wyn F. 129

P

Page, Alfred N. 76  
 Palmer, Susan 71  
 Paradiso, Louis 129  
 Park, Chai Bin 126  
 Park, Se-Hark 73  
 Parker, John E. 74  
 Parks, Richard W. 68, 111  
 Parks, Robert H. 96  
 Parry, Robert T. 77  
 Patel, K. 128  
 Patil, S. 99  
 Patterson, George 46  
 Patterson, James M. 79  
 Patton, Robert D. 49  
 Paulson, A. S. 126  
 Paulson, E. 128  
 Peak, Robert C. 76  
 Pechman, Joseph A. 102  
 Peck, C. C. 104  
 Pejovich, Svetozar 72  
 Peno, Joseph D. 74  
 Perkins, B. B. 65  
 Pessemier, Edgar A. 69  
 Petshek, Kirk L. 74  
 Pfaffenberger, R. C. 77  
 Pffannestiel, Maurice 125  
 Phelps, Edmund S. 49, 104  
 Phillips, E. Bryant 105  
 Pierce, James L. 98  
 Piore, Michael 109  
 Platek, R. 67  
 Plescoff, Georges 80  
 Plott, Charles 134  
 Polis, Richard 46  
 Pollak, Robert A. 78  
 Pond, Chester B. 71  
 Poole, William 127  
 Popkin, Joel 131  
 Porter, W. D. 66  
 Powers, Mary G. 126  
 Prabhu, N. 74  
 Prairie, Richard R. 71  
 Pratt, John W. 129  
 Pratt, Robert W. 69  
 Prescott, Edward 127  
 Press, S. 99  
 Preston, Lee E. 51  
 Price, Daniel O. 132  
 Proctor, C. H. 49  
 Proschan, Frank 66  
 Puffer, Frank 125  
 Purcell, Theodore V. 52  
 Puri, M. 128

- Putter, J. 68  
 Pyke, Ronald 78
- Q
- Quade, D. 44  
 Quesenberry, C. P. 132  
 Quirk, James P. 67  
 Quisel, Kent H. 106
- R
- Rabinowitz, L. 108  
 Rabitsch, E. K. 46  
 Randall, C. 108  
 Ranis, Gustav 66  
 Ranson, Baldwin 82  
 Rao, B. 109  
 Rao, J. N. K. 49, 105, 128  
 Rao, M. M. 44  
 Rapping, Leonard 104  
 Rasche, Robert H. 107  
 Redman, Charles E. 107  
 Reid, Margaret 111  
 Reiersen, Roy L. 102  
 Reiss, H. 104  
 Renshaw, Edward F. 98  
 Resek, Robert W. 76  
 Reubens, Beatrice G. 109  
 Richardson, David H. 73  
 Richardson, R. H. 77  
 Richter, Marcel K. 73, 78  
 Ricks, R. Bruce 103  
 Rico, Leonard 74  
 Riddle, Janet B. 70  
 Riefler, Roger F. 97  
 Riffenburgh, R. 109  
 Riley, H. E. 70  
 Riley, Harold 102  
 Rizvi, M. 128  
 Roberts, Edward B. 69  
 Roberts, Paul O. 66  
 Robie, Edward A. 68  
 Robinson, George 100  
 Robinson, Marshall A. 102  
 Robinson, Patrick J. 101  
 Robinson, Richard D. 110  
 Robison, D. E. 126  
 Robson, R. Thayne 81  
 Roche, George S. 107  
 Rockwood, Persis E. 100  
 Rodine, Robert H. 97  
 Rolph, J. 133  
 Root, Franklin R. 79  
 Rosen, Robert 98  
 Rosen, Sherwin 104  
 Rosenberg, Barr 67
- Rosenberg, Harry M. 43  
 Rosenblatt, Judah 68  
 Rosett, Richard 111  
 Ross, Alan 98  
 Ross, Arthur M. 73  
 Ross, David P. 109  
 Ross, S. 112  
 Rothenberg, Thomas 67  
 Roussas, G. 128  
 Rowlands, David T. 112  
 Royall, R. 47  
 Rude, James G. 103  
 Ruff, Larry E. 104  
 Ruggles, Richard 125  
 Ruhl, D. B. 132  
 Russell, R. Robert 130  
 Rustin, Bayard A. 81  
 Ruttan, Vernon W. 65  
 Ryan, Walter F. 76  
 Ryan, William D. 69
- S
- Sacks, Jerome 108  
 Sacks, Seymour 66  
 Salkever, Louis 47  
 Salsburg, David S. 73  
 Samuels, S. 74, 108  
 Sankar, Ulaganathan 77  
 Sardy, Hyman 76  
 Sasser, W. E. 46  
 Sato, Ryuzo 127  
 Sauer, Herbert I. 126  
 Saul, Richard 70  
 Saunders, S. 128  
 Savage, I. R. 76  
 Savitt, Harry L. 48  
 Schach, S. 128  
 Schay, G., Jr. 109  
 Schenker, Eric 66  
 Scherer, F. M. 69  
 Scheuer, Ernest M. 66  
 Schiff, Michael 101  
 Schiller, Herbert I. 74  
 Schmiedeskamp, Jay 66  
 Schneiderman, Marvin A. 110  
 Schotta, Charles, Jr. 131  
 Schotz, W. E. 111  
 Schultz, Robert S. 43  
 Schuster, E. 128  
 Schutte, Thomas F. 100  
 Schwartz, M. H. 103  
 Sclove, S. 69  
 Scott, Richard A. 69  
 Searle, S. R. 132  
 Sedransk, J. 49
- Seldin, Maury 112  
 Seligman, Ben B. 45, 109  
 Sen, P. K. 44, 99, 128  
 Sevin, Charles H. 101  
 Shafer, Wayne 130  
 Shah, B. V. 71, 79  
 Shank, Marion E. 100  
 Shapiro, Harold T. 107  
 Shapiro, Perry 68  
 Shapiro, Samuel S. 110  
 Sharpe, William F. 125  
 Shaw, Lawrence H. 133  
 Shaw, William H. 126  
 Shawver, Donald L. 51  
 Sheldon, Eleanor Bernert 126  
 Shell, Karl 104, 127  
 Sheps, M. C. 49  
 Shilling, Ned 71  
 Shiskin, Julius 76  
 Shryock, Henry S. 97  
 Shultz, George P. 106  
 Shupp, Franklin 130  
 Siegel, Abraham 109  
 Siegel, Irving H. 49, 110  
 Siegmund, David 68  
 Siker, Estelle 48  
 Silard, John 110  
 Silber, William L. 98  
 Simler, Norman 104  
 Simmons, George B. 45  
 Simmons, Walt R. 71, 77  
 Simons, G. 44  
 Sims, Albert G. 129  
 Sinibaldi, Frank 106  
 Sitgreaves, Rosedith 127  
 Skibinsky, M. 133  
 Slaiman, Donald 74  
 Slate, Daniel M. 46  
 Slater, Charles C. 102  
 Smith, C. Grove 45  
 Smith, D. 68  
 Smith, H. Fairfield 126  
 Smith, Halbert C. 106  
 Smith, Harry, Jr. 67  
 Smith, James D. 78, 125  
 Smith, Kenneth R. 108  
 Smith, W. B. 110  
 Smith, W. L. 66  
 Smith, Warren 48  
 Smith, Wendell R. 101, 105  
 Smithies, Arthur 105  
 Smolinski, Emil 72  
 Smyth, D. J. 73  
 Snell, J. L. 44  
 Snyder, Donald E. 112

- Solo, Robert 134  
 Solomon, Arthur P. 99  
 Soltow, James H. 96  
 Solzman, David M. 97  
 Somers, Gerald G. 68, 83  
 Somerville, P. N. 72  
 Sonnenblum, Sidney 125  
 Sonnenschein, Hugo 108  
 Soper, C. S. 134  
 Sparks, Gordon 49  
 Spiers, Emmett 46  
 Srivastava, J. 44  
 Srivastava, M. 47  
 Staller, George J. 129  
 Stark, John Regan 72  
 Starks, T. 128  
 Starr, Ross M. 67  
 Stasch, Stanley F. 100  
 Staudt, Thomas A. 105  
 Steger, Wilbur 97  
 Steichen, C. Everett 76  
 Stein, Eric S. 102  
 Stein, Herbert 46  
 Steinberg, Joseph 71  
 Steinberg, Robert M. 127  
 Steiner, George A. 97  
 Stephan, Frederick F. 97,  
 113  
 Stern, Louis W. 100  
 Stewart, Charles 45  
 Stieber, Jack 109  
 Stigler, George J. 102  
 Stigler, S. 99  
 Stiglitz, Joseph E. 132  
 Stokes, E. Clinton 75  
 Stoller, Martin 102  
 Stolnitz, George J. 49  
 Stoterau, Thomas 66  
 Strand, Norman 43  
 Street, James 77  
 Stromsdorfer, Ernst W. 109  
 Strotz, Robert H. 78  
 Stroup, Robert H. 110  
 Studden, W. J. 108  
 Sturdivant, Frederick D. 100  
 Styau, G. P. H. 47  
 Sugiura, N. 50  
 Suhler, William C. 126  
 Suits, Daniel B. 49, 78, 130  
 Sukhatme, B. 74  
 Summers, Robert 78  
 Sutch, Richard C. 72  
 Sutton, Gordon F. 46
- Symmes, Roderick O. 46  
 Syski, R. 108
- T
- Taeuber, Conrad 48, 67, 113  
 Taeuber, Karl E. 132  
 Takeuchi, Kei 133  
 Tallis, G. M. 98  
 Tarpey, Lawrence X. 101  
 Tarter, M. 105  
 Taybeck, Mathew 132  
 Taylor, David P. 68  
 Taylor, H. 112  
 Taylor, Lance 73  
 Taylor, Stephen 103  
 Taylor, W. F. 67  
 Tefertiller, Kenneth R. 106  
 Teicher, H. 133  
 Tella, Alfred 48  
 Telser, Lester 67  
 Terborgh, George 126  
 Terleckyj, Nestor E. 76  
 Terpstra, Vern 45  
 Teubal, Morris F. 133  
 Thomas, D. G. 98  
 Thomas, David R. 126  
 Thompson, D. J. 127  
 Thompson, Earl 134  
 Thompson, John R. 65  
 Thorelli, Hans B. 79  
 Thurow, Lester C. 132  
 Tiao, G. 69  
 Tietjen, G. L. 97  
 Tietze, Christopher 130  
 Tinsley, Peter 48  
 Tischendorf, John A. 71  
 Tobin, James 46, 107  
 Tolley, G. S. 108  
 Tonascia, J. 132  
 Tonzetich, J. 98  
 Townsend, E. C. 132  
 Treadway, Arthur B. 130  
 Treynor, Jack L. 125  
 Trowbridge, Alexander B.  
 75  
 Truett, J. 47  
 Tsao, C. 112  
 Tsutakawa, R. K. 99  
 Tucker, Donald 127  
 Tucker, Henry 110  
 Tucker, W. Thomas 46  
 Tukey, John W. 82, 98  
 Tull, Donald S. 101  
 Tullock, Gordon 134  
 Turnovsky, Stephen J. 78  
 Twedt, Dik 77
- Tweeten, Luther 106
- U
- Ullman, Joseph 74  
 Upchurch, Harley M. 127  
 Uppuluri, V. R. R. 126  
 Upton, Charles 78  
 Urban, Glen L. 80  
 Urquhart, N. Scott 43
- V
- Valand, R. 128  
 Van Cise, Jerrold G. 70  
 van den Beld, C. A. 99  
 Vander Noot, T. J., Jr. 103  
 Vander Zwaag, R. 127  
 Van Ryzin, J. 69  
 Vietorisz, Thomas 73  
 Villard, Henry H. 96, 109  
 Vitale, P. A. 97  
 Voight, Robert B. 48
- W
- Wadia, Maneck, S. 79  
 Wagle, John S. 51  
 Wahba, G. 50  
 Walker, D. W. 127  
 Walker, Hugh D. 108  
 Walker, J. 128  
 Wallace, Phyllis 74  
 Walters, Alan A. 66  
 Walton, Clarence C. 52, 79  
 Wang, Yi 108  
 Wani, J. 99  
 Ward, Benjamin 129  
 Warne, Colston E. 82  
 Wasserman, William 48  
 Watson, G. 47  
 Watts, Harold W. 80, 107  
 Webb, L. R. 134  
 Weber, Arnold R. 74  
 Webster, David B. 126  
 Weeks, Richard R. 51  
 Weidenbaum, Murray L. 45,  
 81, 97  
 Weimer, Arthur M. 106  
 Wein, Harold 134  
 Weinberg, Robert S. 129  
 Weiner, H. 47  
 Weinstein, Paul A. 103  
 Weiss, L. 108  
 Weldon, J. I. 67  
 Wells, Bradley 49

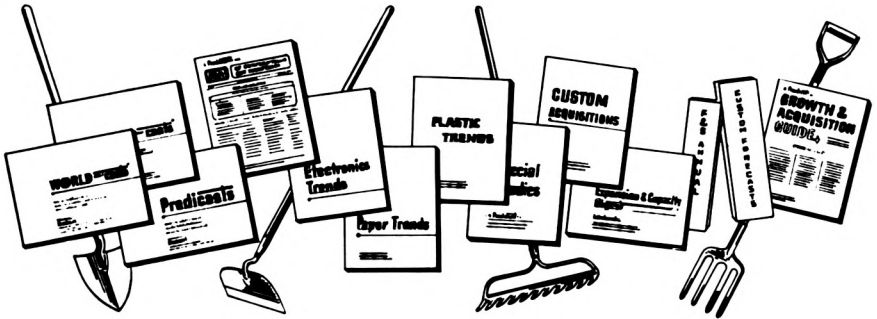
## 180 / INDEX OF PARTICIPANTS

---

- Wells, William D. 46  
Wertz, Kenneth L. 108  
Westfield, Fred 108  
Westing, J. H. 69  
Wheeler, Bayard O. 103  
White, Wilford L. 100  
Wilder, R. L. 67  
Wiley, James 46  
Wilk, Martin B. 106  
Wilkins, Donald J. 101  
Wilkinson, Maurice 68  
Williamson, Harold F. 129  
Wilson, George W. 66  
Wind, Jerry 79
- Winkler, Othmar W. 76  
Winkler, Robert L. 76  
Wipf, Larry 77  
Wise, David 76  
Wise, John 96  
Wolfson, Theresa 77  
Woodroffe, M. 79  
Woodworth, G. Walter 70  
Woodworth, Laurence N.  
71  
Woolsey, Theodore D. 48  
Worley, James S. 129  
Wyckham, Robert G. 51
- Y
- Yoder, Dale 75  
Yotopoulos, Pan A. 96, 133
- Z
- Zabel, Edward 78  
Zacks, Shelemyahu 44, 110  
Zebot, Cyril A. 72  
Zelen, Marvin 72  
Zellner, Arnold 67, 72, 130  
Ziegler, R. K. 97  
Zimmer, W. J. 71  
Zingler, Ervin K. 105  
Zitter, Meyer 43  
Zwerneman, James A. 46

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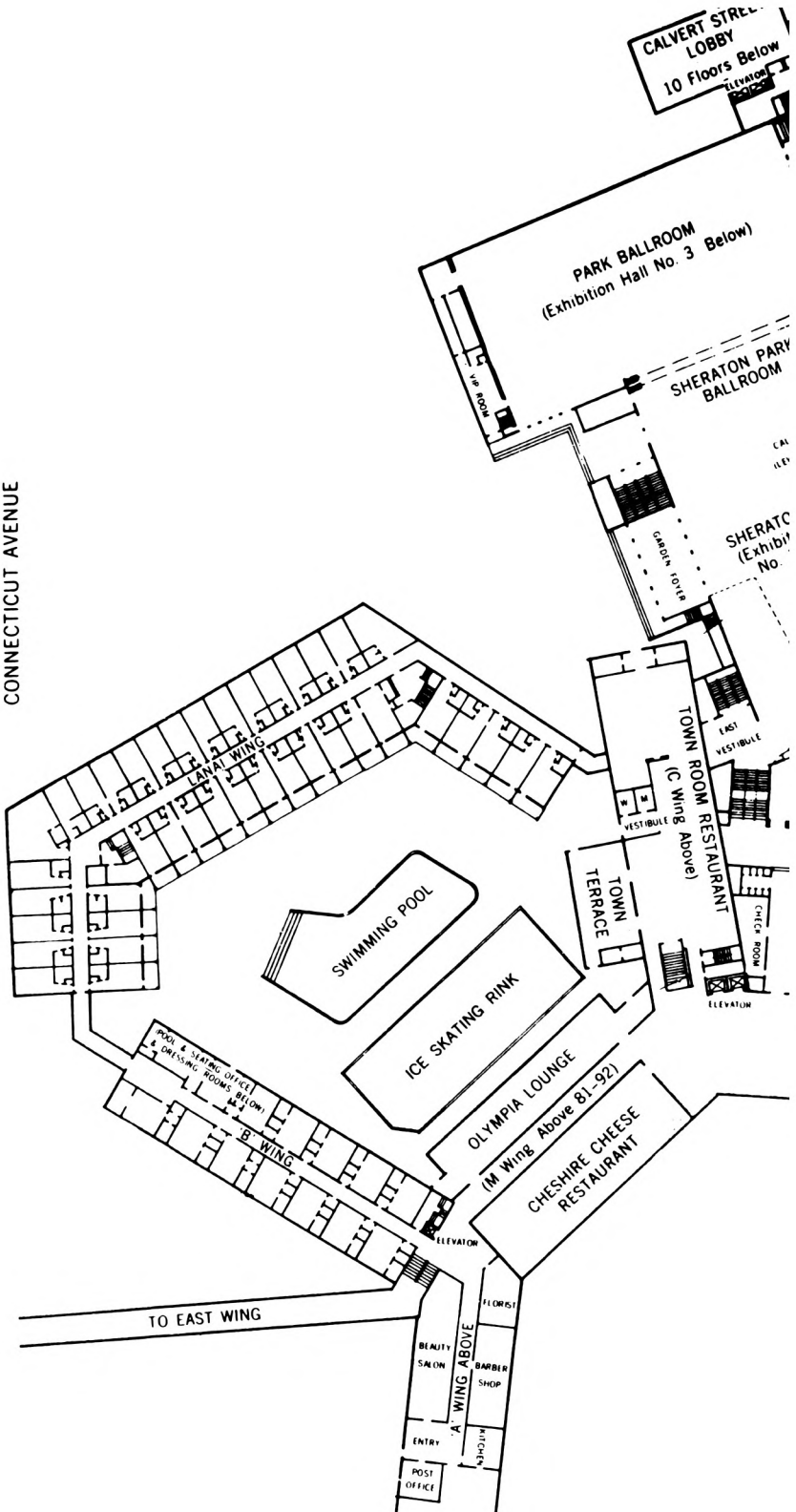
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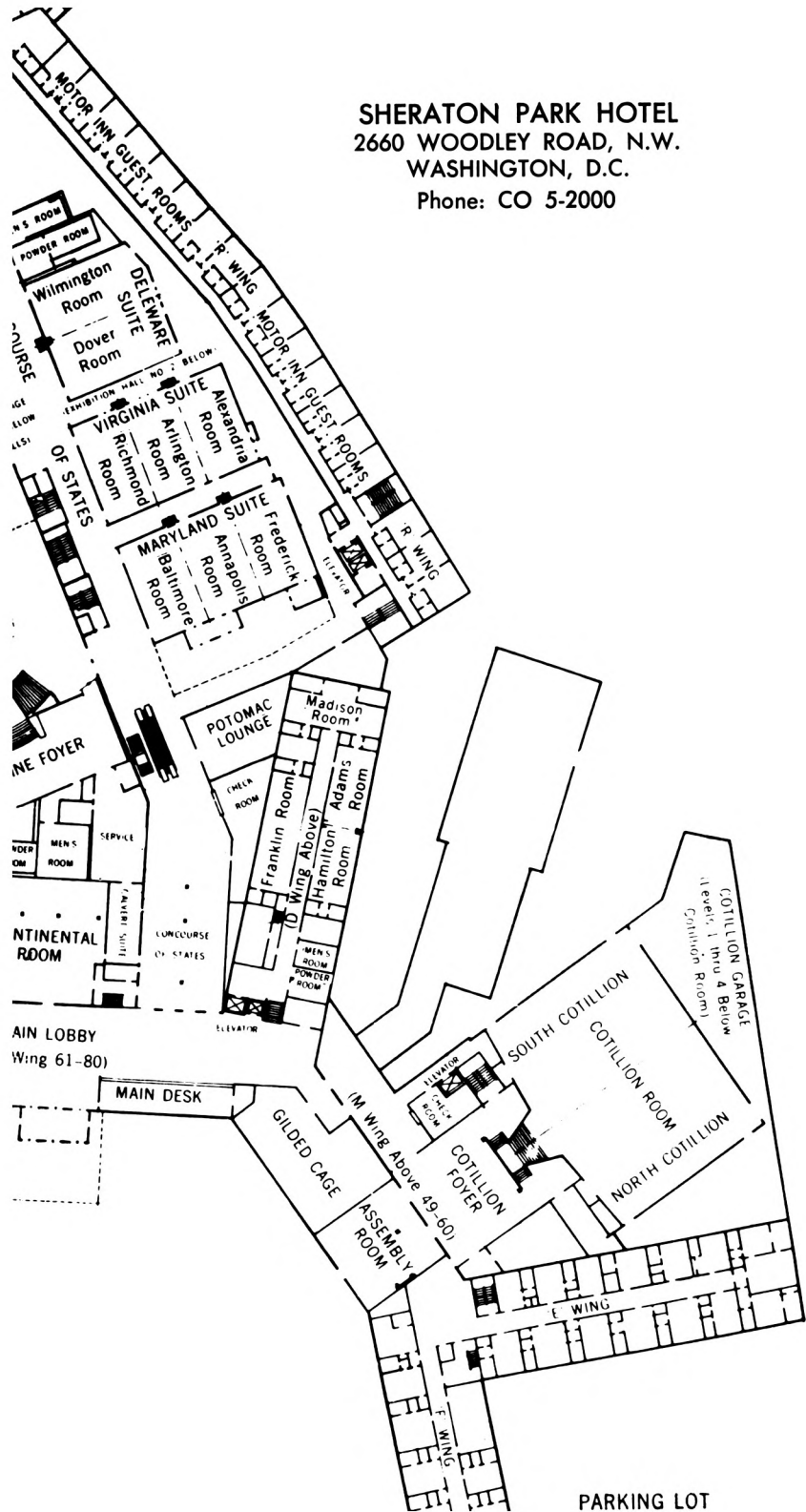
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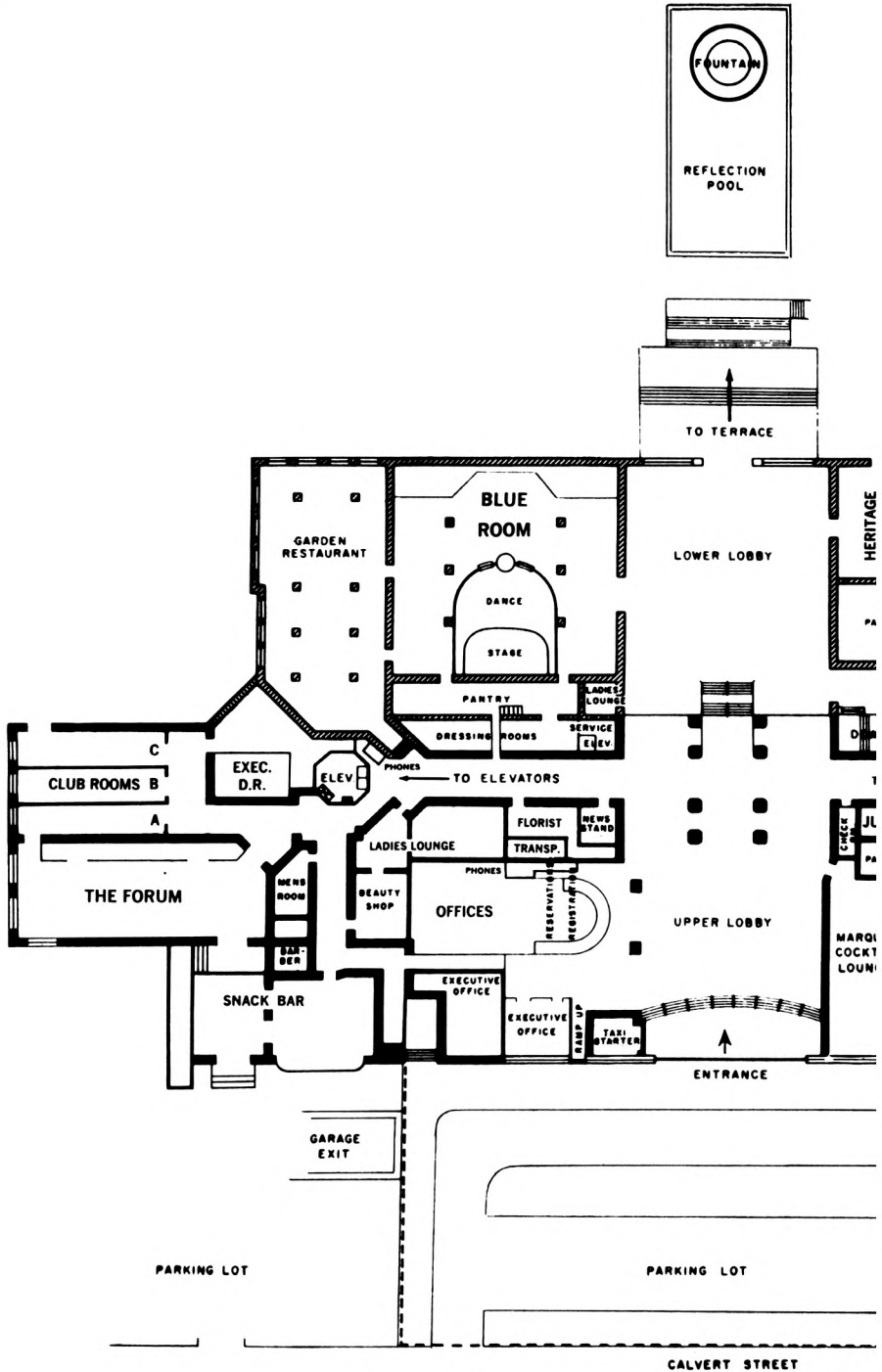
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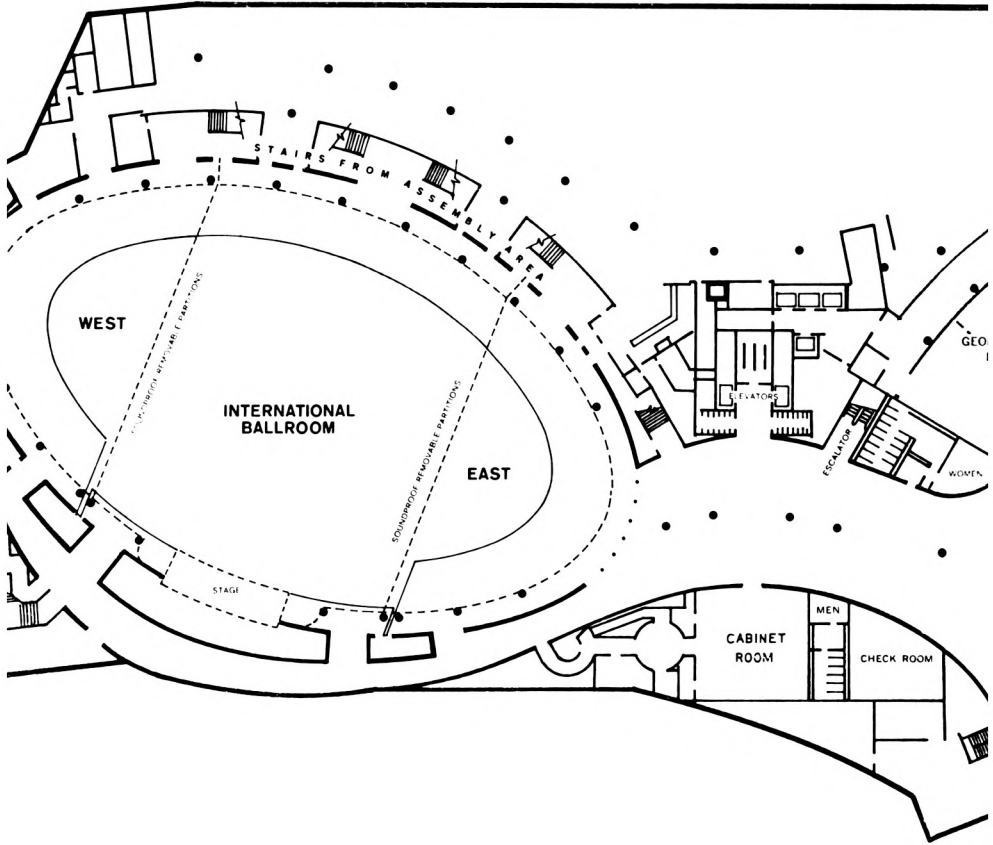
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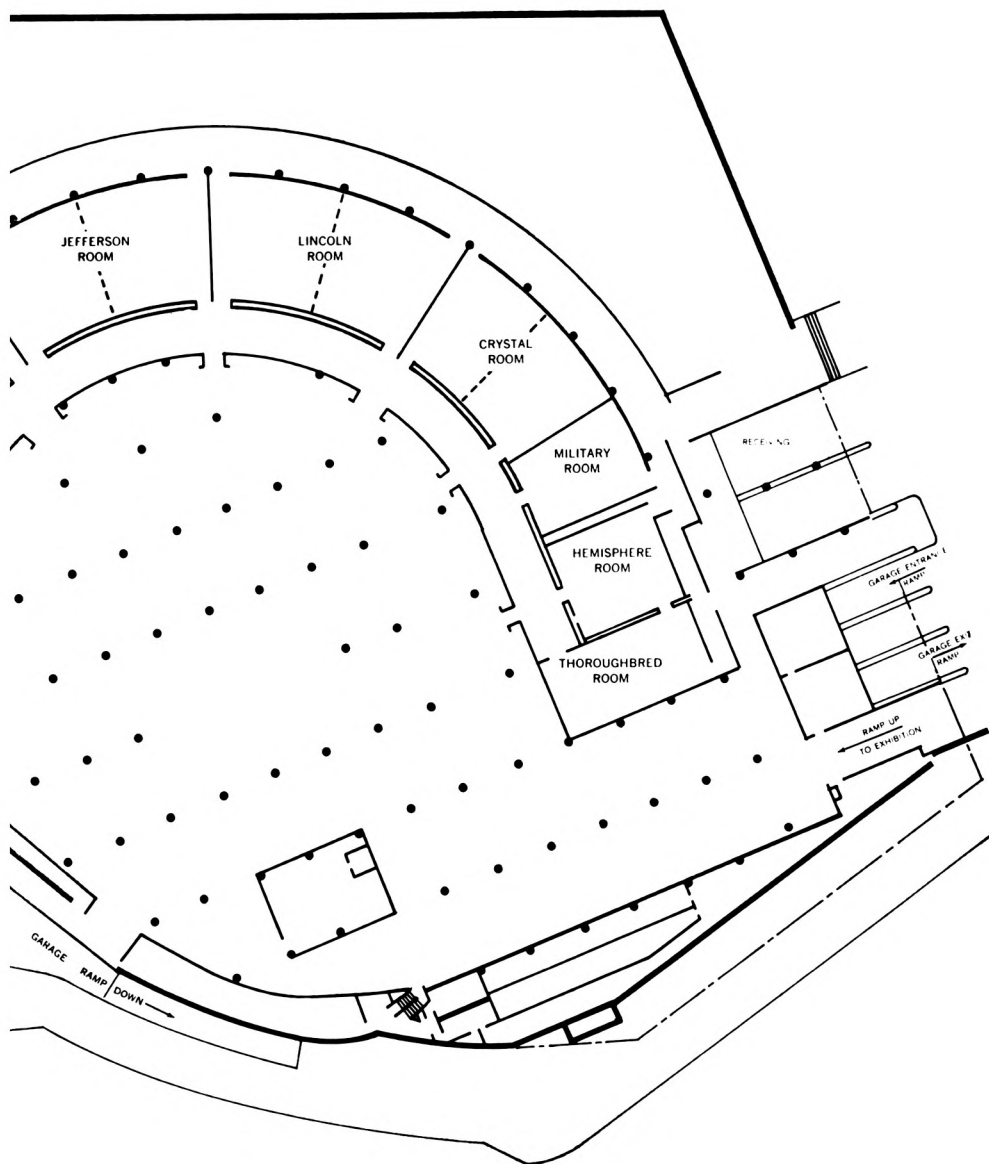
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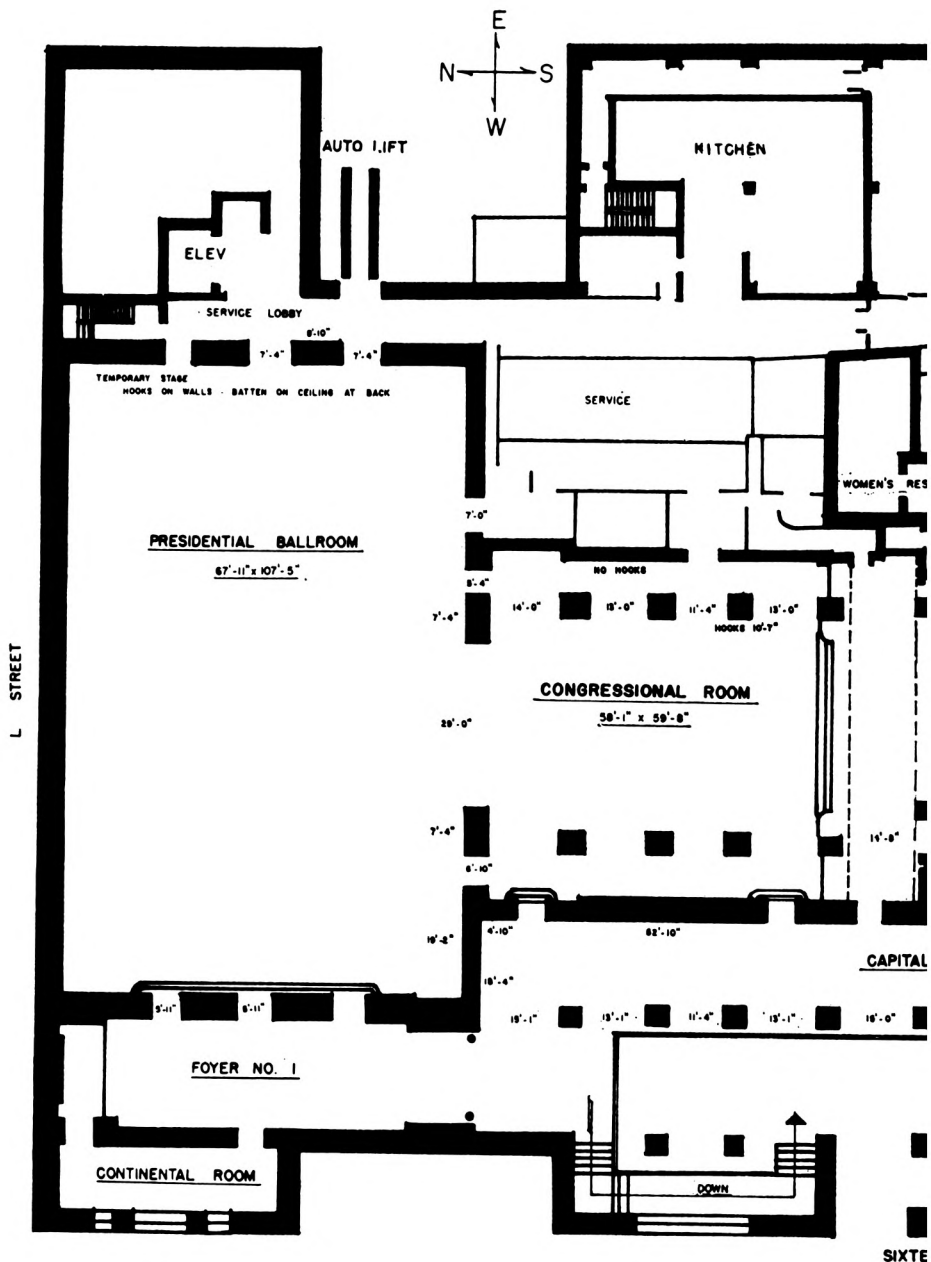






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