

American Economic Association
American Finance Association
American Marketing Association
American Statistical Association
Econometric Society
Industrial Relations Research Association
Institute of Mathematical Statistics
American Association of University Teachers
of Insurance
American Business Law Association
Catholic Economic Association

Holding joint meetings with

American Association for the Advancement of Science
(Section K)
American Farm Economic Association
American Hospital Association
American Public Health Association
American Society for Quality Control (Midwest Regional
Group)
Biometric Society (East North American Region)
Social Work Research Group

GENERAL INFORMATION

Schedule of Meetings and Activities

All scheduled meetings and activities of the associations participating in the 1952 conventions of the Allied Social Science Associations are listed in chronological order in the body of the program. Meetings are scheduled from Saturday, December 27, through Tuesday, December 30. Following the body of the program are an index of the individuals taking part in the meetings, a listing of the officers of the participating associations, an index of the advertisers in this printed program, names of the exhibitors in the respective hotels, and lists of members of the local arrangements committees for these meetings.

Convention Headquarters of Participating Associations

Headquarters of the American Economic Association, American Finance Association, Catholic Economic Association, Econometric Society, and Industrial Relations Research Association are in the Conrad Hilton Hotel. Headquarters of the American Marketing Association, American Statistical Association, Biometric Society (ENAR) and Institute of Mathematical Statistics are in the Palmer House. Headquarters of the American Association of University Teachers of Insurance and the American Business Law Association are in the Morrison Hotel. A map of the Chicago Loop and surrounding area is on the outside back cover of this program.

Information and Registration Centers

Information concerning registrants, meetings, and other matters may be obtained at the Information Desks (Conrad Hilton Hotel: in the Normandy Lounge on 2nd Floor; Palmer House: southwest corner of Exhibition Hall on 4th Floor) or at the adjacent Registration Desks. The Information Desks will serve as distribution centers for copies or abstracts of conference papers intended for general distribution, and as message centers for the convenience of registrants at the conventions. Registration facilities for the American Association of University Teachers of Insurance and the American Business Law Association will be provided in the Morrison Hotel beginning Sunday, December 28.

Employment Register

Convention registrants who desire assistance in obtaining personnel or positions in economics, marketing, statistics or related fields are invited to visit the Employment Desks, which are located as follows: Conrad Hilton Hotel, in the Normandy Lounge exhibit hall on 2nd Floor; Palmer House: American Marketing in Room 15 on the Club Floor, American Statistical Association in Room 792 on

PROGRAM ARRANGEMENTS CHAIRMEN

American Economic Association: Harold A. Innis, University of Toronto (Deceased)
Arthur F. Burns, Columbia University

American Finance Association: Roland I. Robinson, Northwestern University

American Marketing Association: Peter C. Peterson, Market Facts, Inc.

American Statistical Association: Alfred N. Watson, Massachusetts Institute of Technology

Econometric Society: Robert H. Strotz, Northwestern University

Industrial Relations Research Association: J. Douglas Brown, Princeton University

Institute of Mathematical Statistics: David Blackwell, Howard University

American Association of University Teachers of Insurance: Laurence J. Ackerman, University of Connecticut

American Business Law Association: Paul C. Roberts, University of Illinois

Biometric Society (ENAR): S. Lee Crump, University of Rochester

Catholic Economic Association: Rev. Mark Fitzgerald, C.S.C., Notre Dame University

LOCAL ARRANGEMENTS CHAIRMEN

American Economic Association: Robert T. Glidden, International Harvester Company

American Finance Association: O. Paul Decker, American National Bank & Trust Co. of Chicago

American Marketing Association: Robert J. Lavidge, Elrick, Lavidge and Company

American Statistical Association: Wesley D. Mitchell, The Peoples Gas, Light and Coke Company

Econometric Society: Robert F. Picken, Peerless Confection Company

Industrial Relations Research Association: William A. Koivisto, Lake Forest College

Institute of Mathematical Statistics: William H. Kuskal, University of Chicago

American Association of University Teachers of Insurance: Walter G. Bidmer, Western Underwriters' Association

American Business Law Association: John F. Sembower, Williams, Leonard & Sembower

Biometric Society (ENAR): Herbert C. Batson, Illinois Department of Public Health

Catholic Economic Association: Louis F. Buckley, U. S. Department of Labor

h Floor. Application blanks and vacancy forms will be available at these desks. Lists of applicants and vacancies will be made available to prospective employers and employees. Conference rooms will be provided for interviews.

Press Rooms

The rooms provided for the use of representatives of the press are: in the Conrad Hilton Hotel, Room 19 on 4th Floor; in the Palmer House, Room 2 on 3rd Floor. Manuscripts and summaries of papers should be taken to these rooms. All such manuscripts and summaries should be identified fully as to time and title of session, sponsoring association, name and affiliation of author, etc.

Tours

Information about regular tours of Chicago firms, in addition to the special tours listed in the general program, is available at the Press Rooms and Information Desks.

Exhibitors and Advertisers

Convention registrants are invited to view the exhibits that have been furnished by a number of firms. Times of scheduled demonstrations in connection with exhibits will be found in chronological order in the body of the program. At the Conrad Hilton Hotel exhibits are located in the Normandy Lounge on 2nd Floor. At the Palmer House exhibits are in the Exhibition Hall on 4th Floor. Lists of exhibitors and of advertisers in this program follow the body of the program.

Key to Abbreviations

Names of associations meeting in joint sessions are indicated as follows:
 AAAS — American Association for the Advancement of Science (Section K)
 AAUTI — American Association of University Teachers of Insurance
 ABLA — American Business Law Association
 AEA — American Economic Association
 AFA — American Finance Association
 AFEA — American Farm Economic Association
 AHA — American Hospital Association
 AMA — American Marketing Association
 APHA — American Public Health Association
 ASA — American Statistical Association
 ASQC — American Society for Quality Control (Midwest Regional Group)
 BS — Biometric Society (East North American Region)
 CEA — Catholic Economic Association
 ES — Econometric Society
 IMS — Institute of Mathematical Statistics
 IRRRA — Industrial Relations Research Association
 SWRG — Social Work Research Group

SUMMARY OF SATURDAY MEETINGS

8:30 A.M. 1952 Council Meeting (IMS)	1:45 P.M. Sample Survey Design and Measurement for Econometric Models (ES)	Reports on Maturing Research (AFA) Some New Concepts (AMA)
9:30 A.M. Regional and Spatial Economics (ES)	2:00 P.M. Student Marketing Club Advisers and Officers Meeting (AMA)	3:30 P.M. Teaching of Salesmanship (AMA)
10:00 A.M. Meeting of Executive Committee (AEA) Mathematical Training for Social Scientists (ASA, ES)	2:30 P.M. Underdeveloped Countries: The Theory and Practice of Technical Assistance (AEA) Sociology and Economic Science (AEA)	4:00 P.M. Economic Forecasts and Their Accuracy (ASA, AEA)
11:00 A.M. Student Marketing Club Rally (AMA)	2:30 P.M. Quality Control (ASA, ASQC)	4:00 P.M. Coordination of Social Statistics at the Federal Level (ASA)
12:00 M. Combined Survey and Experimental Investigations (IMS) Luncheon Meeting of Executive Committee (AEA)	2:30 P.M. Practice of Technical Assistance (AEA)	4:00 P.M. Meaning and Measurement of Capacity (ASA)
12:00 M. Luncheon Meeting: Advertising in Transition (AMA)	2:30 P.M. Sociology and Economic Science (AEA)	4:00 P.M. Mathematics of Biological and Social Phenomena (BS, ASA)
12:00 M. Luncheon Meeting: Economic Forecasts (ASA)	2:30 P.M. Sociology and Economic Science (AEA)	4:00 P.M. Macro-Dynamic Models of Economic Fluctuations (ES)
1:00 P.M. Luncheon Meeting of Committee on Research (AEA)	2:30 P.M. Sociology and Economic Science (AEA)	4:00 P.M. Theory of Games (ES)
	2:30 P.M. Quality Control (ASA, ASQC)	4:00 P.M. Dinner: AMA Chapter Presidents (AMA) Dinner: Committee on Census Enumeration Areas (ASA)
	2:30 P.M. Quality Control (ASA, ASQC)	6:00 P.M. Dinner: AMA Chapter Presidents (AMA) Dinner: Committee on Census Enumeration Areas (ASA)
	2:30 P.M. Quality Control (ASA, ASQC)	8:00 P.M. Monetary Policy (AEA) Development of Economic Thought (AEA) Use of Statistics in Collective Bargaining (ASA, IRRRA)



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SCHEDULE OF MEETINGS

Saturday, December 27, 1952

8:30 A.M.
PALMER HOUSE
Room 6
(3rd Floor)

1952 Council Meeting
Institute of Mathematical Statistics

9:30 A.M.
CONRAD HILTON HOTEL
South Ballroom
(3rd Floor)

Regional and Spatial Economics
Econometric Society

Chairman: Walter Isard, Harvard University

Papers: THE EQUILIBRIUM OF LAND-USE PATTERNS IN AGRICULTURE

Edgar S. Dunn, University of Florida

A SPATIAL-EQUILIBRIUM MODEL OF THE LIVESTOCK-FEED ECONOMY IN THE UNITED STATES

Karl Fox, Bureau of Agricultural Economics

REGIONAL ECONOMICS AND ECONOMIC DEVELOPMENT

Stefan Robock, Tennessee Valley Authority

Discussion: Guy S. Freutel, Washington University, St. Louis

Gregory P. Vore, Bureau of the Budget

10:00 A.M.
CONRAD HILTON HOTEL
Private Dining Room
No. 3
(3rd Floor)

Meeting of the Executive Committee
American Economic Association

10:00 A.M.
PALMER HOUSE
Room 18
(Club Floor)

Mathematical Training for Social Scientists
Joint Session: ASA, ES

Chairman: Frederick F. Stephan, Princeton University

Speaker: William G. Madow, University of Illinois

Discussion: Jacob Marschak, Cowles Commission
Frederick Mosteller, Harvard University
R. M. Thrall, University of Michigan

10:00 A.M.
PALMER HOUSE
Room 8
(3rd Floor)

The Role of Credibility in Insurance
American Statistical Association

Chairman: Mortimer Spiegelman, Metropolitan Life Insurance Company

Saturday

Paper: CREDIBILITY PROCEDURES ARE REQUIRED TO ESTIMATE PARAMETER VALUES FOR INDIVIDUALS OF HETEROGENEOUS POPULATIONS

A. L. Bailey, Lumbermen's Mutual Casualty Company of Illinois

Discussion: J. E. Freund, Alfred University
J. W. Tukey, Princeton University

10:00 A.M.
PALMER HOUSE
Room 14
(Club Floor)

Quality Control
Joint Session: ASA, ASQC

Chairman: W. R. Pabst, Jr., Dept. of Navy

Papers: PLACE OF QUALITY CONTROL IN A STATISTICAL PROGRAM FOR INDUSTRY
W. E. Deming, Bureau of Budget

Discussion: Fred J. Halton, Deere & Company
Ray S. Sadoris

10:00 A.M.
PALMER HOUSE
Room 9
(3rd Floor)

Federal Sponsorship of Data Collecting Activities by Non-Governmental Agencies
American Statistical Association

Chairman: Thomas J. Mills, Bureau of the Budget

Papers: SCOPE AND NATURE OF THE FEDERAL PROGRAM
Harry Alpert, Bureau of the Budget
PROBLEMS OF DATA COLLECTION UNDER FEDERAL SPONSORSHIP

a) By the Universities
Steven B. Withey, University of Michigan

b) By private survey agencies
Arnold J. King, National Analysts, Inc.

Discussion: Everett Ashley, Housing and Home Finance Agency
Clyde W. Hart, National Opinion Research Center

10:00 A.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Invited Addresses
Institute of Mathematical Statistics

Chairman: J. Wolfowitz, Cornell University and University of California at Los Angeles

Papers: APPLICATIONS OF MARTINGALE THEORY TO STATISTICS

J. L. Doob, University of Illinois

INFORMATION THEORY

B. McMillan, Bell Telephone Laboratories

Saturday

11:00-11:50 A.M.
PALMER HOUSE
Room 17
(Club Floor)

Student Marketing Club Rally
American Marketing Association

12:00 M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Combined Survey and Experimental Investigations
Institute of Mathematical Statistics

Chairman: T. A. Bancroft, Iowa State College

Papers: GENERAL PRINCIPLES AND SOME EXAMPLES

R. J. Jessen, Iowa State College

USES BY THE U. S. CENSUS

J. F. Daley, Bureau of the Census

SOME ASPECTS OF THEORY

W. G. Cochran, Johns Hopkins University

Discussion: Donovan Thompson, Iowa State College
B. G. Greenberg, University of North Carolina

12:00 M.
CONRAD HILTON HOTEL
Private Dining Room
No. 6
(3rd Floor)

Luncheon Meeting of the Executive Committee
American Economic Association

12:00 M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)

Luncheon Meeting
American Marketing Association

Speaker: ADVERTISING IN TRANSITION
Fairfax Cone, President, Foote, Cone, and Belding

Tickets \$4.00, available at registration desk.

12:00 M.
PALMER HOUSE
Grand Ballroom
(4th Floor)

Luncheon Meeting
American Statistical Association

Topic: ECONOMIC FORECASTS

Chairman: Martin Gainsbrugh, National Industrial Conference Board

Speakers: Frederick W. Waugh, Bureau of Agricultural Economics

Charles E. Young, Weyerhaeuser Timber Company

Theodore Yntema, Ford Motor Company

Tickets \$3.25, available at registration desk.

1:00 P.M.
CONRAD HILTON HOTEL
Private Dining Room
No. 5
(3rd Floor)

Luncheon Meeting of the Committee on Research
American Economic Association

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Saturday

1:45 P.M.
**CONRAD HILTON
HOTEL**
West Ballroom
(3rd Floor)

**Sample Survey Design and Measurement for
Econometric Models: A Round Table**
Econometric Society

Chairman: David Rosenblatt, Bureau of the Budget

Paper: SAMPLE SURVEY DESIGN AND MEASUREMENT
FOR ECONOMETRIC MODELS
Stanley Lebergott, Bureau of the Budget

Panel Discussion: Lawrence R. Klein, University of Michigan
Geoffrey H. Moore, National Bureau of Economic Research
Joseph Daley, Bureau of the Census

2:00-3:00 P.M.
PALMER HOUSE
Room 6
(3rd Floor)

**Student Marketing Club Advisers and Officers
Meeting**
American Marketing Association

2:00-3:20 P.M.
PALMER HOUSE
Room 796
(7th Floor)

Teaching of Marketing Research
American Marketing Association

Chairman: David J. Luck, Michigan State College
BRASS TACKS SESSION—WHAT ARE WE TRY-
ING TO DO?

Panel Members: Roy Ashmen, Young and Rubicam, Inc.
Lyndon O. Brown, Dancer-Fitzgerald-Sample,
Inc.
Kenneth A. Grubb, University of Maryland
Donald F. Mulvihill, University of Alabama

2:00 P.M.
PALMER HOUSE
Room 11
(3rd Floor)

Practical Uses of Transportation Flow Data
Joint Session: ASA, AEA

Chairman: E. Grosvenor Plowman, United States Steel
Corporation

Papers: TECHNICAL ASPECTS OF TRANSPORTATION
FLOW DATA
R. Tynes Smith, III, Interstate Commerce
Commission

UTILIZATION OF TRANSPORTATION FLOW
DATA BY THE CARRIERS

E. S. Root, Erie Railroad

UTILIZATION OF TRANSPORTATION FLOW
DATA BY THE DEPARTMENT OF DEFENSE AND
OTHER SHIPPERS

D. M. Steiner, Department of Defense

Discussion: W. Edwards Deming, Bureau of the Budget
C. Austin Sutherland, National Tank Truck
Carriers

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An Introductory Analysis of the Level,
Composition, and Distribution of Economic Income
BRUCE W. KNIGHT and L. GREGORY HINES
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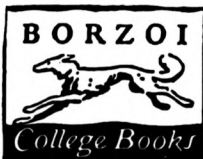
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Saturday

Ray S. Kelley, Jr., National Planning Association Committee of New England
Donald C. Horton, Bureau of the Budget

2:00 P.M.
PALMER HOUSE
Room 9
(3rd Floor)

Symposium: Recent Developments in the Use of Probability Sampling in Agricultural Economics and Statistics

Joint Session: ASA, AFEA

Chairman: Arnold J. King, National Analysts, Inc.

Papers: OBJECTIVE SAMPLING OF CALIFORNIA FRUIT CROPS

George Kuznets, University of California, and George Harvey, Federal State Crop Reporting Service

USE OF PROBABILITY SAMPLING IN TURKISH 1951 AGRICULTURAL CENSUS

Charles F. Sarle, National Analysts, Inc., and Vincent Lidquist, Mutual Security Agency, Ankara, Turkey

COMBINING PROBABILITY SAMPLING AND EXPERIMENTAL DESIGN IN MARKETING RESEARCH

Walter T. Federer, Cornell University, N. Y.
Max E. Brunk, Cornell University, N. Y.

Discussion: Joseph A. Becker, Department of Agriculture
Robert K. McMillan, National Analysts, Inc.

2:00 P.M.
PALMER HOUSE
Room 8
(3rd Floor)

Statistical Analysis of Biological Time Series

Joint Session: ASA, BS

Chairman: B. G. Greenberg, University of North Carolina

Papers: THE PROBLEM OF AUTOREGRESSION IN REGRESSION ANALYSIS

R. L. Anderson, North Carolina State College
THE USE OF OBSERVATIONS TAKEN PERIODICALLY IN GROWTH STUDIES

H. L. Lucas, North Carolina State College
THE APPLICATIONS OF MULTIVARIATE ANALYSIS TO BIOLOGICAL TIME SERIES

A. M. Dutton, University of Rochester

Discussion: Informal

2:00 P.M.
PALMER HOUSE
Room 7
(3rd Floor)

New Developments in the Use of Sample Surveys to Determine Health Conditions

Joint Session: ASA, APHA, BS

Chairman: Paul M. Densen, University of Pittsburgh

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Saturday

Papers: **HOUSEHOLD SURVEY**
Neva R. Deardorff, Health Insurance Plan of
Greater New York, and Jerome Cornfield,
National Institute of Health

**THE USE OF CENSUS CURRENT POPULATION
SURVEY TO OBTAIN INFORMATION ON MOR-
BIDITY**
Theodore D. Woolsey, Federal Security
Agency

**THE ASSOCIATION BETWEEN HEALTH AND
SOCIAL PROBLEMS IN THE POPULATION**
Paul M. Densen, Antonio Ciocco, and Daniel
Horvitz, University of Pittsburgh

2:00 P.M.

PALMER HOUSE
Room 18
(Club Floor)

Multi-Part Dynamical Systems
Econometric Society

Chairman: Arnold C. Harberger, Johns Hopkins Univer-
sity

Papers: **A FUNDAMENTAL PROPERTY OF SYSTEMS
CHARACTERIZED BY NON-NEGATIVE MATRICES
WHOSE COLUMN SUMS ARE LESS THAN OR
EQUAL TO UNITY**

John S. Chipman, Harvard University

**THE STABILITY OF THE EXCHANGE RATE
MECHANISM IN A MULTI-COUNTRY SYSTEM**
J. J. Polak and Ta-Chung Liu, International
Monetary Fund

Discussion: Stephen Enke, University of California at Los
Angeles
Nicholas Georgescu-Roegen, Vanderbilt Uni-
versity

2:00-5:50 P.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Application of Statistics to Astronomy
Joint Session: ASA, IMS

Chairman: Walter Bartky, University of Chicago

Papers: **THE STRUCTURE OF THE UNIVERSE**
Bengt Strömberg, Yerkes Observatory

**ANALYSIS OF COUNTS OF THE EXTRA-GALAC-
TIC NEBULAE IN TERMS OF A FLUCTUATING
DENSITY FIELD**
D. Nelson Limber

**THEORY OF CLUSTERING OF GALAXIES IN A
STATIC AND IN AN EXPANDING UNIVERSE**
J. Neyman and E. L. Scott, University of
California

Saturday

Discussions: John W. Tukey, Princeton University
Harold Hotelling, University of North Carolina
S. Chandrasekhar, University of Chicago

2:00-5:50 P.M.
PALMER HOUSE
Room 14
(Club Floor)
Quality Control
Joint Session: ASA, ASQC

Chairman: Lloyd Knowler, Iowa State University
Papers: WHAT MAKES A QUALITY CONTROL CHART TICK?
Leo A. Aroian, Hughes Aircraft
DESIGN OF X- AND R- CHARTS FOR CURRENT USE WITH A GIVEN STANDARD
Acheson J. Duncan, Johns Hopkins University
QUALITY INDEX CONTROL CHARTS
Bonnie B. Small, Western Electric Company
Discussion: Bessie B. Day and W. R. Pabst, Jr., Department of the Navy

2:30 P.M.
CONRAD HILTON HOTEL
Grand Ballroom
(2nd Floor)
Underdeveloped Countries: The Theory and Practice of Technical Assistance
American Economic Association

Chairman: Calvin B. Hoover, Duke University
Papers: FACTORS IN THE ECONOMIC DEVELOPMENT OF GUATEMALA
G. E. Britnell, University of Saskatchewan
FACTORS IN THE ECONOMIC DEVELOPMENT OF CEYLON
P. T. Ellsworth, University of Wisconsin
Discussion: Edwin P. Reubens, College of the City of New York
John B. Condliffe, University of California

2:30 P.M.
CONRAD HILTON HOTEL
North Ballroom
(3rd Floor)
Sociology and Economic Science
American Economic Association

Chairman: Frank W. Notestein, Princeton University
Papers: SOCIAL VALUE THEORY, ECONOMIC ANALYSIS AND ECONOMIC POLICY
Joseph J. Spengler, Duke University
THE ECONOMIC SYSTEM AND THE SOCIAL SYSTEM
Manuel Gottlieb, Harvard University

Saturday

SOCIAL STRATIFICATION AND ECONOMIC ADVANCE
Nelson Foote, University of Chicago, and
Paul K. Hatt, Northwestern University

Discussion: Mary Jean Bowman, University of Kentucky

2:30 P.M.
CONRAD HILTON HOTEL
Private Dining Room
No. 2
(3rd Floor)
Reports on Maturing Research
American Finance Association

Chairman: Donald B. Woodward, Mutual Life Insurance Company
Papers: CAPITAL FORMATION AND FINANCING
Simon Kuznets, University of Pennsylvania
SAVING
Raymond Goldsmith, independent consultant
RISK IN INVESTMENT
Eleanor S. Bagley, Mutual Life Insurance Company

2:30 P.M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)
Some New Concepts
American Marketing Association

Chairman: D. Maynard Phelps, Professor of Marketing, University of Michigan
DO WE HAVE TOO MUCH GROUP-THINK IN MARKETING?
Paul Lazarsfeld, Professor of Sociology, Columbia University
A NEW LOOK AT MARKETING INTEGRATION
Corwin D. Edwards, Chief Economist, Federal Trade Commission

3:30 P.M.
PALMER HOUSE
Room 796
(7th Floor)
Teaching of Salesmanship
American Marketing Association

Chairman: Ralph B. Thompson, University of Texas
NEW THOUGHTS ON TEACHING AIDS
Films: Frank Beach, University of Illinois
Student Presentations: Allan M. Cain, Austin Life Insurance Company
NEW THOUGHTS ON SALES CURRICULUM
From the University Viewpoint
Speaker: W. R. Bennett, University of Alabama
From the Industry Viewpoint
Speaker: Richard S. Steffa, The Dartnell Corporation

Saturday

4:00 P.M.
PALMER HOUSE
Grand Ballroom
(4th Floor)

Economic Forecasts and Their Accuracy
Joint Session: ASA, AEA

- Chairman:* Arthur R. Uppgren, University of Minnesota
Papers: A SURVEY OF RECENT ECONOMIC FORECASTS
Rutledge Vining, University of Virginia
FORECASTS OF THE WAR PRODUCTION
AUTHORITIES
Robinson Newcombe, Office of Defense
Mobilization, and Paul McCracken, Univer-
sity of Michigan, and Stahrl Edmunds, Mc-
Graw-Hill Publishing Company
- Discussion:* Geoffrey Moore, National Bureau of Economic
Research
Lewis Bassie, University of Illinois
T. V. Kreps, Stanford University
Gerhard Colm, National Planning Association

4:00 P.M.
PALMER HOUSE
Room 8
(3rd Floor)

**Coordination of Social Statistics at the Federal
Level**
American Statistical Association

- Chairman:* Harry Alpert, Bureau of the Budget
Papers: BUILDING A COORDINATED NATIONAL SYS-
TEM OF VITAL STATISTICS
Halbert Dunn, National Office of Vital Statis-
tics
COORDINATION OF POPULATION ESTIMATES
USED BY FEDERAL, STATE AND LOCAL AGEN-
CIES
Henry S. Shryock, Jr., Bureau of the Census
COORDINATION OF POPULATION AND MAN-
POWER STATISTICAL STUDIES
Seymour Wolfbein, Bureau of Labor Statistics
- Discussion:* Donald C. Riley, Bureau of the Budget

4:00 P.M.
PALMER HOUSE
Room 9
(3rd Floor)

Meaning and Measurement of Capacity
American Statistical Association

- Chairman:* Alvin Mayne, Defense Production Adminis-
tration
Papers: CONCEPTS OF CAPACITY
Raymond T. Bowman, University of Penn-
sylvania
A NEW APPROACH TO CAPACITY MEASUREMENT
Samuel Weiss, and Seymour Wolfbein, Bu-
reau of Labor Statistics

Saturday

- Discussion:* Stephen P. Taylor, Department of Commerce
Robert N. Grosse, Bureau of the Budget
Francis P. Hober, Johns Hopkins University

4:00 P.M.
PALMER HOUSE
Room 17
(Club Floor)

**Mathematics of Biological and Social
Phenomena**
Joint Session: BS, ASA

- Chairman:* Nicolas Rashevsky, University of Chicago
Papers: A MATHEMATICAL THEORY OF CAPILLARY EX-
CHANGE AS A FUNCTION OF TISSUE STRUCTURE
G. W. Schmidt, University of Chicago
MATHEMATICAL BIOPHYSICS OF THE CARDIO-
VASCULAR SYSTEM
George Karreman, University of Chicago
PROBABILISTIC THEORY OF NEURAL AND
SOCIAL PROCESSES
Anatol Rapoport, University of Chicago

4:00 P.M.
CONRAD HILTON
HOTEL
North Ballroom
Assembly
(3rd Floor)

**Macro-Dynamic Models of Economic
Fluctuations**
Econometric Society

- Chairman:* Harold M. Somers, University of Buffalo
Papers: NON-LINEAR SELF-EXCITED OSCILLATIONS AND
BUSINESS CYCLES
Takuma Yasui, Tohoku University
THE RELATIONSHIP BETWEEN VELOCITY AND
THE COST OF HOLDING MONEY
Richard Selden, Vanderbilt University
INTEREST AND MONEY IN MACRO-DYNAMIC
MODELS
Warren L. Smith, University of Michigan
- Discussion:* Robert Eisner, Northwestern University
Clark Warburton, Federal Deposit Insurance
Corporation

4:00 P.M.
PALMER HOUSE
Room 18
(Club Floor)

The Theory of Games
Econometric Society

- Chairman:* Harold Hotelling, University of North Caro-
lina
Papers: SELF-POLICING SOLUTIONS IN THE THEORY OF
GAMES
William Vickrey, Columbia University
SOME GAME THEORETIC POINTS OF VIEW ON
SCIENTIFIC RESEARCH
Leo Törnqvist, University of Helsinki and
Cowles Commission for Research in Eco-
nomics

Saturday

EXISTENCE OF AN EQUILIBRIUM FOR A COMPETITIVE ECONOMY

Kenneth J. Arrow, Stanford University and
Gerald Debreu, Cowles Commission for Research in Economics

Discussion: Oskar Morgenstern, Princeton University
Leonard J. Savage, University of Chicago

6:00 P.M.
PALMER HOUSE
Room 11
(3rd Floor)

Dinner — AMA Chapter Presidents
American Marketing Association

6:00 P.M.
PALMER HOUSE
Room 6
(3rd Floor)

Informal Dinner — Committee on Census Enumeration Areas
American Statistical Association

8:00 P.M.
CONRAD HILTON HOTEL
Grand Ballroom
(2nd Floor)

Monetary Policy
American Economic Association

Chairman: John H. Williams, Harvard University
Papers: RECENT DEVELOPMENTS IN BRITISH MONETARY POLICY
Harry Johnson, King's College, Cambridge
RECENT DEVELOPMENTS IN AMERICAN MONETARY POLICY
Henry C. Wallich, Yale University
RECENT DEVELOPMENTS IN CANADIAN MONETARY POLICY
Mabel F. Timlin, University of Saskatchewan
Discussion: Lloyd W. Mints, University of Chicago
Herbert Stein, Committee for Economic Development
G. Findlay Shirras, University of Illinois

8:00 P.M.
CONRAD HILTON HOTEL
North Ballroom
(3rd Floor)

Development of Economic Thought
American Economic Association

Chairman: Frank H. Knight, University of Chicago
Papers: PATTERNS OF ECONOMIC THOUGHT
Karl Pribram, Washington, D.C.
THE DEVELOPMENT OF THE CONCEPTS OF MECHANISM AND MODEL IN PHYSICAL AND ECONOMIC THOUGHT
Gregor Sebba, University of Georgia
Discussion: Joseph J. Spengler, Duke University
Carl Christ, Johns Hopkins University

Saturday

Harlan L. McCracken, Louisiana State University

8:00 P.M.
PALMER HOUSE
Grand Ballroom
(4th Floor)

The Use of Statistics in Collective Bargaining
Joint Session: ASA, IRRA

Chairman: J. Douglas Brown, Princeton University, President, Industrial Relations Research Association

Papers: GROUND RULES FOR THE USE OF STATISTICS IN COLLECTIVE BARGAINING
George W. Taylor, former Chairman, War Labor Board, University of Pennsylvania
STATISTICS FROM THE MEDIATOR'S POINT OF VIEW
Cyrus Ching, former Director, Federal Mediation and Conciliation Service
STATISTICS FROM THE LABOR POINT OF VIEW
Arthur J. Goldberg, General Counsel, Congress of Industrial Organizations
STATISTICS FROM THE INDUSTRY POINT OF VIEW
Speaker to be announced.

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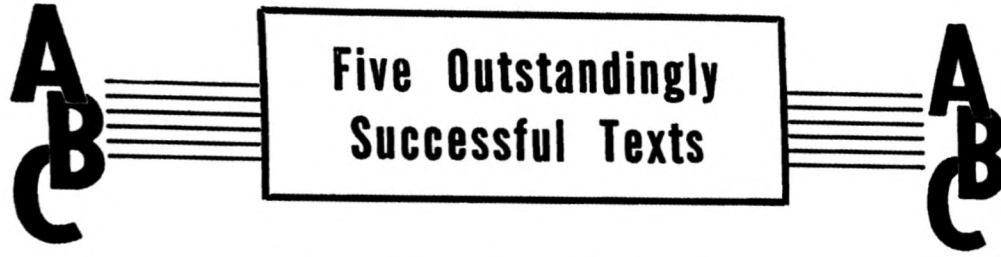
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SUMMARY OF SUNDAY MEETINGS

8:00 A.M.
Breakfast: Secretaries of Allied Social Science Associations
Breakfast: Teaching Consumer and Personal Finance (AFA)
Breakfast: Training of Statisticians (ASA)
Breakfast: University of Minnesota
Breakfast: University of Wisconsin

8:30 A.M.
Business Meeting (IMS)

9:30 A.M.
Governmental Economic Activity (AEA)
Long-run Effects of Full Employment on the Labor Market (AEA, IRRRA)
Needed Research in Finance (AFA)
Teaching of General Marketing (AMA)
What's New in Techniques for Understanding Buying and Selling Behavior? (AMA)
What's New in Industrial Marketing Techniques? (AMA)
Recent Developments in Mathematical Economics and Econometrics (AEA, ES)
The Role of Public Opinion in Industrial Disputes (IRRA)

10:00 A.M.
Economic Studies (ES)
Probability and Behavior (IMS)
Meeting: 1958 Program Committee (ASA)
Business Meeting: Business and Economic Statistics Section (ASA)
Round Table on Activities of Committee on Statistics in the Physical Sciences (ASA)
ACB Newspaper Research Services (ACB)

12:00 M.
Contributed Papers—I (IMS)
Lunch: 1962 Census Tract Conference (ASA)
Lunch: Business Meeting of Outgoing Board of Directors (ASA)
Lunch: Research Council of Economic Security
Lunch: Editors of Economic Journals (AEA)

1:30 P.M.
Round Table on the Patman "Textbooks"—I (AFA)
Teaching of Advertising (AMA)

1:45 P.M.
The United States Demand for Imports (AEA, ES)

2:00 P.M.
Marketing and the Pricing Dilemma (AMA)
Federal Estimates of National Savings (ASA)
Demonstration and Experiment in the Teaching of Statistics (ASA)
Two Recent Developments in the Design and Analysis of Experiments (ASA, BS)
The Role of Mathematics in the Social Sciences (ASA, AAS)
New Electronic Machines and the Future of Statistics (ASA)
Application of Statistics to Earth Sciences (ASA)
Controlled Stochastic Processes (ES, IMS)
Research with a Practical Accent (RCofA)

2:30 P.M.
Technology (AEA)
Research (AEA)
Prospective Developments in Federal Regulation and Co-ordination of Transportation (AEA)
Principles and Factors Influencing Managerial Decisions in Industrial Relations (IRRA, AEA)
Problems in Development of Pension Programs under Collective Bargaining (IRRA)
New Symbolism for Economics and Statistics (VELofCU)

3:30 P.M.
Round Table on the Patman "Textbooks"—II (AFA)
Teaching of Sales Management (AMA)
Mediamatics—a New Approach for the Measurement and Evaluation of Media Audiences (AMA)

4:00 P.M.
Labor Force and Employment Trends and Projections: 1900-2000 (AEA, ASA)
Use of Statistics in Hospital Planning (ASA, AHA)
Determining Optimum Conditions (ASA, BS)
Local Statistics—The Philadelphia Story (ASA)
Individual Preference Functions (ES, IMS)
The New Consumers Price Index (ASA, ES)
Meeting: American Section, International Institute of Public Finance

4:30 P.M.
Meeting: Company Membership Advisory Council (AMA)

5:00 P.M.
Business Meeting and Awarding of the Francis A. Walker Medal (AEA)
Business Meeting (ASA)

5:30 P.M.
Cocktails (AMA)

6:00 P.M.
Dinner: Princeton University
Dinner: Editorial Board of American Economic Review (AEA)

7:00 P.M.
Banquet: What's New on Marketing Prospects at Home and Abroad? (AMA)

7:30 P.M.
Registration and Smoker (ABLA)
Presidential Address (ASA)

8:00 P.M.
Harold Adams Innis, in Memoriam (AEA)
Meeting of the Council (ES)

9:00 P.M.
Smoker (IRRA)

9:30 P.M.
Reception and Informal Party (ASA)

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Sunday

SUNDAY, DECEMBER 28, 1952

8:00 A.M.
CONRAD HILTON HOTEL
 Private Dining Room No. 6
 (3rd Floor)

Breakfast – Conference of Secretaries of the Allied Social Science Associations:
 American Accounting Association
 American Association of University Teachers of Insurance
 American Business Law Association
 American Economic Association
 American Farm Economic Association
 American Finance Association
 American Marketing Association
 American Political Science Association
 American Sociological Society
 American Statistical Association
 Econometric Society
 Economic History Association
 Industrial Relations Research Association
 Institute of Mathematical Statistics
 Rural Sociological Society

8:00 A.M.
CONRAD HILTON HOTEL
 Park Row Restaurant
 (1st Floor)

Breakfast: American Finance Association
A roundtable discussion of the teaching of consumer and personal finance.

Chairman: Ernst Dauer, Household Finance Corporation

8:00 A.M.
PALMER HOUSE
 Coffee Shop
 (Sub-Arcade)

Breakfast; Business Meeting—Section on Training of Statisticians
American Statistical Association

8:00 A.M.
CONRAD HILTON HOTEL
 Private Dining Room No. 5
 (3rd Floor)

Breakfast – for present and former faculty members and graduate students of the University of Minnesota

8:00 A.M.
CONRAD HILTON HOTEL
 West Ballroom
 (3rd Floor)

Breakfast – Alumni of the University of Wisconsin

8:30-9:50 A.M.
PALMER HOUSE
 Room 6
 (3rd Floor)

Business Meeting – Institute of Mathematical Statistics

9:30 A.M.
CONRAD HILTON HOTEL
 Grand Ballroom
 (2nd Floor)

Governmental Economic Activity
American Economic Association

Chairman: Arthur F. Burns, Columbia University
 Papers: PUBLIC EMPLOYMENT IN THE UNITED STATES AND GREAT BRITAIN SINCE 1900
 Moses Abramovitz, Stanford University

Sunday

TRENDS IN LOCAL AND FEDERAL EXPENDITURES IN THE UNITED STATES SINCE 1900

Lyle C. Fitch, Middletown, Connecticut

Discussion: Ronald H. Coase, University of Buffalo
M. Slade Kendrick, Cornell University
Theodore C. Mesmer,, United Nations Statistical Office

9:30 A.M.
CONRAD HILTON HOTEL
North Ballroom
Long-run Effects of Full Employment on the Labor Market
Joint Session: AEA, IRRA

Chairman: Gladys L. Palmer, University of Pennsylvania
Papers: WAGE LEVELS AND WAGE DIFFERENTIALS
Albert E. Rees, University of Chicago

THE IMPACT OF EFFECTIVE DEMAND ON THE LABOR SUPPLY

Clarence D. Long, Johns Hopkins University

Discussion: Richard A. Lester, Princeton University
Charles A. Myers, Massachusetts Institute of Technology

9:30 A.M.
CONRAD HILTON HOTEL
Private Dining Room No. 1
(3rd Floor)
Needed Research in Finance
American Finance Association

Chairman: Robert V. Rosa, Federal Reserve Bank of New York

Papers: BUDGETING AND PLANNING CAPITAL OUTLAYS
Joel Dean, Columbia University and Joel Dean Associates

NEW YORK STOCK EXCHANGE RESEARCH PROGRAM ON STOCK OWNERSHIP

Jonathan Brown, New York Stock Exchange

EFFECTS OF TAXATION ON THE INVESTMENT CAPACITY AND POLICY OF INDIVIDUALS

J. Keith Butters and Lawrence Thompson, Harvard University

9:30 A.M.
PALMER HOUSE
Room 796
(7th Floor)
Teaching of General Marketing
American Marketing Association

Chairman: Richard M. Clewett, Northwestern University
NEW VIEWPOINTS IN MARKETING
E. D. McGarry, University of Buffalo

Sunday

SPENDING THE PROMOTIONAL DOLLAR - A NEW THEORY WITH PRACTICAL IMPLICATIONS

Leo V. Aspinwall, University of Colorado

9:30-11:50 A.M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)
What's New in Techniques for Understanding Buying and Selling Behavior?
American Marketing Association

Chairman: J. Stevens Stock, Director of Research and Media, McCann-Erickson, Inc.

WHAT ABOUT GROUP DYNAMICS AND OTHER SOCIAL RESEARCH METHODS?

Harold J. Leavitt, Vice President, Nejelski & Company, Incorporated, Management Counsel

THE THEORY OF GAMES - CAN IT BE USED IN MARKETING?

John McDonald, Board of Editors, Fortune Magazine and author of *Strategy in Poker, War and Business*

APPLYING PROJECTIVE TECHNIQUES TO MARKETING PROBLEMS

James Vicary, Consultant in Marketing and Public Opinion Research

9:30-11:50 A.M.
PALMER HOUSE
Room 17
(Club Floor)
What's New in Industrial Marketing Techniques?
American Marketing Association

Chairman: A. T. Bush, Acme Steel Company
WHAT'S NEW IN FORECASTING

Arthur G. Auble, Associate Professor, Business Statistics, Northwestern University

INDUSTRIAL SALESMEN - KEY TO EFFECTIVE RESEARCH?

John S. Hawley, Marketing Manager, Shakeproof, Inc.

AN INDUSTRIAL "ALICE" IN THE "DO-IT-YOURSELF" WONDERLAND

William H. Ferry, Merchandising Manager, Skil Corporation

9:30 A.M.
CONRAD HILTON HOTEL
South Ballroom
(3rd Floor)
Recent Developments in Mathematical Economics and Econometrics: An Expository Session
Joint Session: AEA, ES

Chairman: Wassily Leontief, Harvard University

Papers: CARDINAL UTILITY
Robert H. Strotz, Northwestern University

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WHAT HAS HAPPENED TO THE THEORY OF
GAMES

Leonid Hurwicz, University of Minnesota
ACTIVITY ANALYSIS AND ITS APPLICATIONS
Tjalling C. Koopmans, Cowles Commission
for Research in Economics and University of
Chicago

Discussion: William J. Baumol, Princeton University

9:30 A.M.
CONRAD HILTON
HOTEL
Lower Tower
(28th Floor)

The Role of Public Opinion in Industrial
Disputes
Industrial Relations Research Association

Chairman: Ross Stagner, University of Illinois
Papers: PUBLIC OPINION AS A FACTOR IN LABOR
DISPUTES

Avery Leiserson, Vanderbilt University
THE ROLE OF THE MEDIATOR IN RELATION
TO PUBLIC OPINION
Edgar L. Warren, University of California,
Los Angeles

Discussion: Allen Weisenfeld, New Jersey State Board of
Mediation
Daniel Bell, *Fortune Magazine*

10:00 A.M.
PALMER HOUSE
Room 18
(Club Floor)

Econometric Studies
Econometric Society

Chairman: Francis M. Boddy, University of Minnesota
INVENTORY FLUCTUATIONS IN FLAXSEED AND
LINSEED OIL

Stephen G. Allen, Stanford University and
Cowles Commission for Research in Eco-
nomics

RESEARCH STRATEGY IN INVESTIGATION OF
REFRIGERATOR SALES

Guy H. Orcutt, Harvard University

Discussion: George H. Borts, Brown University
Jean Bronfenbrenner, Department of Commerce
Avram Kisselgoff, The Bank of New York

10:00 A.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Probability and Behavior
Institute of Mathematical Statistics

Chairman: To be announced

Sunday

Papers: PERSONAL PROBABILITY
Leonard J. Savage, University of Chicago
FOUNDATIONS OF A THEORY OF BEHAVIOR
Edward W. Barankin, University of California, Berkeley, and National Bureau of Standards, Los Angeles

10:00 A.M. Meeting — 1953 Program Committee
PALMER HOUSE *American Statistical Association*
Room 8
(3rd Floor)

10:00 A.M. Business Meeting: Business and Economic
PALMER HOUSE Statistics Section
Room 11 *American Statistical Association*
(3rd Floor)

10:00-11:00 A.M. Round Table on Activities of Committee on
PALMER HOUSE Statistics in the Physical Sciences
Room 9 *American Statistical Association*
(3rd Floor)

10:00-10:30 A.M. ACB Newspaper Research Services as an Aid
PALMER HOUSE to Market Research and Merchandizing
Booth 30
Exhibition Hall
Speaker: W. Carroll Shelton, Advertising Checking Bureau, Inc.

12:00 M. Contributed Papers — I
PALMER HOUSE *Institute of Mathematical Statistics*
Crystal Room
(3rd Floor)

Chairwoman: E. L. Scott, University of California, Berkeley
Papers: (1) A TWO-SAMPLE MULTIPLE DECISION PROCEDURE FOR RANKING MEANS OF NORMAL POPULATIONS WITH UNKNOWN VARIANCES (Preliminary Report)
R. E. Bechhofer, C. W. Dunnett and M. Sobel, Cornell University
(2) A SEQUENTIAL MULTIPLE DECISION PROCEDURE FOR RANKING MEANS OF NORMAL POPULATIONS WITH KNOWN VARIANCES (Preliminary Report)
R. E. Bechhofer and M. Sobel, Cornell University
(3) ON QUADRATIC ESTIMATES OF VARIANCE COMPONENTS
F. Graybill, Oklahoma Agricultural and Mechanical College and Iowa State College

Sunday

(4) TOPICS IN ANALYSIS OF VARIANCE: A. OPTIMUM PROPERTIES OF TESTS FOR MODEL II. B. GENERALIZATIONS OF MODEL II (Preliminary Report)

L. Herbach, Brooklyn College and Columbia University

(5) FURTHER EXAMPLES FOR WHICH THE LIKELIHOOD RATIO TEST IS POOR

L. M. Court, Brooklyn College

(6) AN EMPIRICAL SAMPLING METHOD

E. L. Cox, Dugway Proving Ground

(7) DISTRIBUTION OF SEMI-DEFINITE AND OF INDEFINITE QUADRATIC FORMS

J. Gurland, Iowa State College

(8) ASYMPTOTIC PROPERTIES OF IDEAL LINEAR ESTIMATORS (By title)

Carl A. Bennett, General Electric Company

(9) BIAS IN ESTIMATION BY INTERVAL (By title)

M. C. K. Tweedie, Virginia Polytechnic Institute. Introduced by B. Harshbarger, Virginia Polytechnic Institute

(10) COMPLETENESS OF THE ORDER STATISTICS IN THE NONPARAMETRIC CASE (By title)

D. A. S. Fraser, University of Toronto

(11) PARAMETER-FREE AND NON-PARAMETRIC TOLERANCE LIMITS: THE EXPONENTIAL CASE (By title)

L. A. Goodman, University of Chicago

(12) A SIMPLE METHOD FOR IMPROVING SOME ESTIMATORS (By title)

L. A. Goodman, University of Chicago

12:00 M. Luncheon — Editors of Economic Journals
CONRAD HILTON *American Economic Association*
HOTEL
Private Dining Room
No. 3
(3rd Floor)

12:00-4:00 P.M. Luncheon 1952 Census Tract Conference
PALMER HOUSE *Joint Session: ASA, AMA*
Room 9
(3rd Floor)

Chairman: Howard Whipple Green, Cleveland Health Council

Papers: CURRENT DEVELOPMENTS AND PROBLEMS IN CONNECTION WITH THE CENSUS TRACT PROGRAM

Roy V. Peel, Director of the Census
CENSUS TRACT AND URBAN RESEARCH
Donald L. Foley, University of Rochester

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W. Thurber Fales, Baltimore City Health Department
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GENERAL DISCUSSION

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12:00 M. PALMER HOUSE Room 6 (3rd Floor)

Luncheon - Business Meeting of Outgoing Board of Directors American Statistical Association

12:00 M. CONRAD HILTON HOTEL Private Dining Room No. 8 (3rd Floor)

Luncheon - Research Council of Economic Security

1:30 P.M. CONRAD HILTON HOTEL West Ballroom (3rd Floor)

Round Table on the Patman "Textbooks" I American Finance Association

Chairman: Wesley Lindow, Irving Trust Company

Papers: GENERAL RETROSPECT Henry C. Murphy, International Monetary Fund

THE PUBLIC DEBT: HINDRANCE OR ADVANTAGE TO CREDIT CONTROL

Paul W. McCracken, University of Michigan ORGANIZATION OF THE FEDERAL RESERVE SYSTEM G. L. Bach, Carnegie Institute of Technology

1:30 P.M. PALMER HOUSE Room 796 (7th Floor)

Teaching of Advertising American Marketing Association

Chairman: Vance Chamberlin, Fenn College WHAT'S NEW - IN THE TEACHING OF ADVERTISING

Sunday

Panel: Kenneth Dameron, Ohio State University
Charles G. Ellington, Harvard University
Vernon Fryburger, University of Illinois
Kenneth A. Grubb, University of Maryland
Karl H. Krauskopf, Ohio University
James D. Scott, University of Michigan
Vance Chamberlin, Fenn College

1:45 P.M.
CONRAD HILTON
HOTEL
North Ballroom
(3rd Floor)

The United States Demand for Imports

Joint Session: AEA, ES

Chairman: Fritz Machlup, Johns Hopkins University
Papers: THE UNITED STATES DEMAND FOR IMPORTS
Hans P. Neisser, New School for Social Research
A STRUCTURAL APPROACH TO THE PROBLEM OF IMPORT DEMAND
Arnold C. Harberger, Johns Hopkins University
Discussion: John H. Adler, International Bank for Reconstruction and Development
Sidney S. Alexander, Columbia Broadcasting System
Herbert K. Zassenhaus, International Monetary Fund

2:00-3:20 P.M.
PALMER HOUSE
Grand Ballroom
(4th Floor)

Marketing and the Pricing Dilemma

American Marketing Association

Chairman: Ira D. Anderson, Professor of Marketing, Northwestern University
THE COMPANY AND THE LAW
Speaker: Thomas Sunderland, General Counsel, Standard Oil of Indiana
PUBLIC POLICY AND THE LAW
Speaker: Morris Adelman, Associate Professor, Massachusetts Institute of Technology

2:00 P.M.
PALMER HOUSE
Room 17
(Club Floor)

Federal Estimates of National Savings

American Statistical Association

Chairman: Peyton Stapp, Bureau of the Budget

Sunday

Papers: WHAT AN ECONOMIST WANTS IN THE WAY OF SAVINGS DATA
Gerhard Colm, National Planning Association
NEXT STEPS IN THE STATISTICAL STUDY OF SAVINGS
Raymond Goldsmith
Discussion: Peter Henle, American Federation of Labor
Eugene Zorn, American Bankers Association
V. Lewis Bassie, University of Illinois

2:00 P.M.
PALMER HOUSE
Room 18
(Club Floor)

Demonstration and Experiment in the Teaching of Statistics

American Statistical Association

Chairman: Philip J. McCarthy, Cornell University
Papers: THE USE OF LABORATORY EXPERIMENTS IN THE TEACHING OF PROBABILITY STATISTICS
A. C. Rosander, George Washington University
Discussion: W. J. Dixon, University of Oregon
Edwin G. Olds, Carnegie Institute of Technology

2:00 P.M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)

Two Recent Developments in the Design and Analysis of Experiments

Joint Session: ASA, BS

Chairman: Cuthbert Daniel
Papers: EXPERIMENTAL DESIGNS FOR THE PHYSICAL SCIENCES
W. J. Youden, National Bureau of Standards
MULTIPLE COMPARISONS
John Tukey, Princeton University

2:00 P.M.
PALMER HOUSE
Room 14
(Club Floor)

The Role of Mathematics in the Social Sciences

Joint Session: ASA, AAAS

Chairman: Simon Kuznets, University of Pennsylvania
Papers: THE POTENTIAL CONTRIBUTIONS OF MATHEMATICS TO ECONOMIC AND SOCIAL STATISTICS
Frederick F. Stephan, Princeton University
LIMITS OF MATHEMATICS IN STATISTICS
Wladimir S. Woytinsky, Johns Hopkins University
Discussion: David Rosenblatt, Washington, D.C.
Dorothy Brady, Bureau of Labor Statistics
Jacob Marschak, Cowles Commission

WILEY Books—1952 Highlights

THE DEVELOPMENT OF ECONOMIC THOUGHT: Great Economists in Perspective by HENRY WILLIAM SPIEGEL, *The Catholic University of America* . . . 1952. 811 pages. \$6.50.

* **DEMAND ANALYSIS:** A Study in Econometrics by HERMAN WOLD, *University of Uppsala*; with LARS JURÉEN, *State Agricultural Marketing Board of Sweden* . . . 1952. 515 pages. \$7.00.

ECONOMETRICS by GERHARD TINTNER, *Iowa State College* . . . 1952. 370 pages. \$5.75.

PRINCIPLES OF HUMAN RELATIONS: Applications to Management by NORMAN R. F. MAIER, *The University of Michigan* . . . 1952. 474 pages. \$6.00.

* **STATISTICAL THEORY WITH ENGINEERING APPLICATIONS:** Text and Tables by A. HALD, *The University of Copenhagen* . . . Text: 1952. 783 pages. \$9.00. Tables: 1952. 97 pages. \$2.50.

* **50-100 BINOMIAL TABLES** by HARRY G. ROMIG, *Hughes Aircraft Company* . . . 1952. 172 pages. \$4.00.

* **ADVANCED STATISTICAL METHODS IN BIOMETRIC RESEARCH** by C. RADHAKRISHNA RAO, *the Indian Statistical Institute, Calcutta* . . . 1952. 390 pages. \$7.50.

* **THE DESIGN AND ANALYSIS OF EXPERIMENTS** by OSCAR KEMPTHORNE, *Iowa State College* . . . 1952. 631 pages. \$8.50.

COMING early in 1953

STUDIES IN ECONOMETRIC METHODS Edited by William C. Hood and Tjalling C. Koopmans.

* **AN INTRODUCTION TO STATISTICS** by Charles E. Clark.

* **STOCHASTIC PROCESSES** by J. L. Doob.

* **INTERNATIONAL TRADE STATISTICS: A Guide to the User of Statistics** by Edward Ely and R. G. D. Allen.

NATIONALISM AND SOCIAL COMMUNICATION by Karl W. Deutsch.

* A WILEY PUBLICATION IN STATISTICS,
Walter A. Shewhart, Editor.

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New York 16, N.Y.

Sunday

2:00 P.M.
PALMER HOUSE
Foyer to the
Grand Ballroom
(4th Floor)

Chairman: Emil Schell, Department of the Air Force

Papers: C. C. Hurd, International Business Machines
H. L. Mitchell, Eckert Mauchly Division, Remington Rand

New Electronic Machines and the Future of Statistics
American Statistical Association

2:00-5:50 P.M.
PALMER HOUSE
Room 11
(3rd Floor)

Chairman: John C. Griffiths, Pennsylvania State College

Papers: APPLICATION OF STATISTICAL METHODS TO SEDIMENTARY DATA
W. C. Krumbein, Northwestern University
SOME STATISTICAL PROBLEMS IN FIELD GEOLOGY

Hard J. Pincus, Ohio State University
OCEAN WAVES AND ANALYSIS OF THEIR APPEARANCE, PROPAGATION AND PROPERTIES IN TERMS OF TIME, SERIES, POWER SPECTRA AND STATISTICS

Willard J. Pierson, Jr., New York University
CLIMATOLOGY'S NEEDS IN STATISTICAL RESEARCH

Arnold Court, University of California

Discussion: K. A. Brownlee, University of Chicago
I. W. Burr, Purdue University

2:00 P.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Chairman: Jacob Marschak, Cowles Commission for Research in Economics and University of Chicago

Papers: ON CONTROLLED STACHASTIC PROCESSES
Jack Kiefer, Cornell University

ON SOME PROBLEMS IN THE THEORY OF DYNAMIC PROGRAMMING
Richard Bellman, The RAND Corporation

Discussion: Leo Törnqvist, University of Helsinki and Cowles Commission for Research in Economics

Sunday

2:00-2:30 P.M. **Research with a Practical Accent**
PALMER HOUSE
Booth 25
Exhibition Hall
Speaker: A. Edwin Fein, Research Company of America

2:30 P.M. **Technology**
CONRAD HILTON HOTEL
North Ballroom
Assembly
(3rd Floor)
Chairman: B. U. Ratchford, Duke University
Papers: **THE ROLE OF TECHNOLOGY IN ECONOMIC THEORY**
Clarence E. Ayres, University of Texas
DETERMINANTS OF THE DIRECTION OF TECHNOLOGICAL CHANGE
Yale Brozen, Northwestern University
Discussion: M. C. Urquhart, Queen's University
Irving H. Siegel, Twentieth Century Fund

2:30 P.M. **Research**
CONRAD HILTON HOTEL
Upper Tower
(29th Floor)
Chairman: Simeon E. Leland, Northwestern University
Papers: **SOME CONTEMPORARY TENDENCIES IN ECONOMIC RESEARCH**
Bernard F. Haley, Stanford University
ECONOMIC RESEARCH IN RELATION TO PUBLIC POLICY
Robert D. Calkins, Brookings Institution
Discussion: Howard S. Ellis, University of California
Alfred C. Neal, Federal Reserve Bank of Boston
Milton Friedman, University of Chicago
Meyer Kestnbaum, Hart, Schaffner & Marx
Arthur R. Upgren, University of Minnesota

2:30 P.M. **Prospective Developments in Federal Regulation and Co-ordination of Transportation (program arranged by W. H. S. Stevens)**
CONRAD HILTON HOTEL
Private Dining Room
No. 2
(3rd Floor)
Chairman: Kent T. Healy, Yale University
Papers: **PROPOSED CHANGES IN TRANSPORTATION REGULATION**
American Economic Association

Sunday

Edwin C. Johnson, United States Senate
GOVERNMENT CO-ORDINATION AND PROMOTION OF TRANSPORTATION
Jack Garrett Scott, Under Secretary of Commerce for Transportation
Discussion: John H. Frederick, University of Maryland
Charles S. Morgan, Interstate Commerce Commission

2:30 P.M. **The Principles and Factors Influencing Managerial Decisions in Industrial Relations**
CONRAD HILTON HOTEL
South Ballroom
(3rd Floor)
Chairman: Douglass V. Brown, Massachusetts Institute of Technology
Papers: **CHANGING ASSUMPTIONS IN THE THEORY OF BUSINESS BEHAVIOR**
George Katona, University of Michigan
PRESSURES ON COMPANY DECISION-MAKING IN INDUSTRIAL RELATIONS
James C. Worthy, Sears, Roebuck & Company
Discussions: E. H. van Delden, New York University
Sidney C. Sufrin, Syracuse University
Joint Session: IRRA, AEA

2:30 P.M. **Problems in the Development of Pension Programs under Collective Bargaining**
CONRAD HILTON HOTEL
Lower Tower
(28th Floor)
Chairman: George W. Taylor, University of Pennsylvania
Papers: **CONTRIBUTION AND BENEFITS**
Leonard Lesser, United Automobile Workers of America, CIO
PROBLEMS AND PROCEDURES IN RETIREMENT, CONTINUATION, AND RECALL
Curtis B. Gallenbeck, Inland Steel Company
Discussion: Robert M. Ball, Social Security Administration
Lane Kirkland, American Federation of Labor
Industrial Relations Research Association

2:30-3:00 P.M. **A New Symbolism for Economics and Statistics**
PALMER HOUSE
Booth 9
Exhibition Hall
Speaker: Arthur O. Dahlberg, Visual Economics Laboratory of Columbia University

Sunday

3:30 P.M.
CONRAD HILTON
HOTEL
West Ballroom
(3rd Floor)

Round Table on the Patman "Textbooks" II
American Finance Association

Chairman: Roland I. Robinson, Northwestern University

Papers: WORKING OF THE CREDIT MECHANISM
Roy L. Reiersen, The Bankers Trust Company
NEW AND OLD IDEAS ON RESERVE REQUIREMENTS
Charles R. Whittlesey, University of Pennsylvania

PHILOSOPHY OF DEBT MANAGEMENT
Henry C. Wallich, Yale University
GAPS AND OMISSIONS IN THE PATMAN INQUIRY
John D. Clark, Council of Economic Advisers

3:30 P.M.
PALMER HOUSE
Room 796
(7th Floor)

Teaching of Sales Management
American Marketing Association

Chairman: Kenneth D. Hutchinson, Boston University
SALESMEN'S RETIREMENT PLANS

Speaker: Phillip McVey, Case Institute of Technology
SPECIAL INCENTIVES FOR SALESMEN

Speaker: Albert Haring, Indiana University

3:30-5:00 P.M.
PALMER HOUSE
Grand Ballroom
(4th Floor)

Mediamatics — A New Approach for the Measurement and Evaluation of Media Audiences
American Marketing Association

Chairman: Hans Zeisel, Tea Bureau, New York City
MEDIAMATICS . . . WHAT IT IS

Speaker: Ira Bix, Director of Advertising Research,
Farm Journal

Speakers: MEDIAMATICS . . . AN EVALUATION
George H. Brown, Professor of Marketing,
University of Chicago
Stanley Canter, Associate Director of Research,
McCann-Erickson, Inc.

4:00 P.M.
PALMER HOUSE
Room 8
(3rd Floor)

Labor Force and Employment Trends and Projections: 1900-2000
Joint Session: AEA, ASA

Chairman: Charles D. Stewart, Bureau of Labor Statistics

Sunday

Papers: ESTIMATES OF LABOR FORCE, EMPLOYMENT,
AND UNEMPLOYMENT, 1900-50
Stanley Lebergott, Bureau of the Budget
PROJECTIONS OF LABOR FORCE AND EMPLOYMENT,
1950-2000

Calman Winegarden, Bureau of Labor Statistics

Discussion: John Durand, United Nations Population Office
David Kaplan, Bureau of the Census
Gladys Palmer, University of Pennsylvania

4:00 P.M.
PALMER HOUSE
Room 7
(3rd Floor)

Use of Statistics in Hospital Planning
Joint Session: ASA, AHA

Chairman: Paul M. Densen, University of Pittsburgh

Papers: STATISTICAL ASPECTS OF HOSPITAL ACCREDITATION

E. L. Crosby, Johns Hopkins Hospital
STATISTICAL PROBLEMS ENCOUNTERED IN THE
WORK OF THE COMMISSION ON FINANCING OF
HOSPITAL CARE

Isidore Altman, Commission on Financing
Hospital Care

4:00 P.M.
PALMER HOUSE
Room 17
(Club Floor)

Determining Optimum Conditions
Joint Session: ASA, BS

Chairman: Harold Hotelling, University of North Carolina

Papers: RECENT ADVANCES IN FINDING BEST OPERATING CONDITIONS

R. L. Anderson, University of North Carolina
SOME PROBLEMS IN DETERMINING MAXIMA OF
FUNCTIONS OF SEVERAL VARIABLES

Fred Mosteller, Harvard University

4:00 P.M.
PALMER HOUSE
Room 9
(3rd Floor)

Local Statistics — The Philadelphia Story
American Statistical Association

Chairman: Leonard A. Drake, Chamber of Commerce of
Greater Philadelphia

Papers: CITY AND AREA STATISTICS — CHAMBER OF
COMMERCE EXPERIENCE

Leonard A. Drake
BUYING HABITS OF PHILADELPHIA FAMILIES:
AN EXAMPLE OF STUDENT RESEARCH

Myron Heidingsfield, Temple University

Sunday

DEVELOPMENT, ANALYSIS AND USE MADE OF LOCAL STATISTICS BY A CITY PLANNING COMMISSION

Harlin G. Loomer, City Planning Commission of Philadelphia

4:00 P.M.
CONRAD HILTON HOTEL
Private Dining Room
No. 1
(3rd Floor)

Individual Preference Functions
Joint Session: ES, IMS

Chairman: Oskar Morgenstern, Princeton University
Papers: THE INTRANSITIVITY OF INDIVIDUAL PREFERENCES

Kenneth O. May, Carleton College
EXPERIMENTAL TESTING OF A POSTULATE IN THE THEORY OF CHOICE
Andreas G. Papandreou, University of Minnesota

Discussion: Ward Edwards, Johns Hopkins University
Milton Friedman, University of Chicago
H. S. Houthakker, Cowles Commission for Research in Economics

4:00 P.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

The New Consumers Price Index
Joint Session: ASA, ES

Chairman: Adolph O. Berger, Bureau of Labor Statistics
Paper: THE NEW CONSUMERS PRICE INDEX
Edward Hollander, Bureau of Labor Statistics

Discussion: Robert A. Sayre, Association of American Railroads
Lazare Teper, International Ladies Garment Workers Union
Laura Mae Webb, Bureau of the Budget

4:00 P.M.
CONRAD HILTON HOTEL
Private Dining Room
No. 4
(3rd Floor)

Meeting—American Section of the International Institute of Public Finance

4:30 P.M.
PALMER HOUSE
Room 788
(7th Floor)

Meeting: Company Membership Advisory Council
American Marketing Association

5:00 P.M.
CONRAD HILTON HOTEL
North Ballroom
(3rd Floor)

Annual Business Meeting and Awarding of the Francis A. Walker Medal
American Economic Association

Sunday

5:00-6:00 P.M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)

Business Meeting
American Statistical Association

5:30 P.M.
PALMER HOUSE
Room 14
(Club Floor)

Cocktails
American Marketing Association

6:00 P.M.
Dinner—Princeton University Alumni and Place to be Announced Faculty

6:00 P.M.
CONRAD HILTON HOTEL
Private Dining Room
No. 6
(3rd Floor)

Dinner—Members of the Editorial Board of The American Economic Review
American Economic Association

7:00 P.M.
PALMER HOUSE
Grand Ballroom
(4th Floor)

Banquet
American Marketing Association

WHAT'S NEW ON MARKETING PROSPECTS AT HOME AND ABROAD?

Speaker: Charles H. Sawyer, Secretary of Commerce of the United States

Tickets \$6.00, available at registration desk.

7:30 P.M.
MORRISON HOTEL
Hollywood Room
(Mezzanine)

Registration; Informal Smoker
American Business Law Association

Chairman: MEET YOUR TEXTBOOK AUTHORS
Matthew P. Dogan, Indiana University

7:30 P.M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)

Presidential Address
American Statistical Association

Chairman: Willard Thorp, U. S. Department of State
Speaker: Arynness Joy Wickens, Bureau of Labor Statistics

8:00 P.M.
CONRAD HILTON HOTEL
Grand Ballroom
(2nd Floor)

Harrold Adams Innis, 1894-1952
American Economic Association

Chairman: Chester W. Wright, University of Chicago

PRESIDENTIAL ADDRESS: BIAS IN ECONOMICS
Introductory fragments to be read by the
chairman.

IN MEMORIAM

Vincent W. Bladen, University of Toronto
W. T. Easterbrook, University of Toronto

CONTRIBUTION TO SCHOLARSHIP

Joseph H. Willits, Rockefeller Foundation

8:00 P.M.
CONRAD HILTON
HOTEL
Private Dining Room
No. 3
(3rd Floor)

Meeting of the Council — Econometric Society

9:00 P.M.
CONRAD HILTON
HOTEL
South Ballroom
(3rd Floor)

Smoker — Industrial Relations Research Association

9:30 P.M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)

Reception and Informal Party — American Statistical Association

Tickets \$1.00, available at Registration Desk.

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SUMMARY OF MONDAY MEETINGS

8:00 A.M.
Breakfast: Chapter Secretaries and District Representatives (ASA)
Breakfast: Pi Gamma Mu
Contributed Papers—II (IMS)
8:15 A.M.
Reliability and Usability of Soviet Statistics (ASA)
8:30 A.M.
Teaching of Retailing (AMA)
9:00 A.M.
Marketing Strategy (AMA)
9:30 A.M.
Morning Session (ABLA)
Interregional Analysis and Regional Development (AEA)
Theory of Income Distribution (AEA)
Some Economic and Social Aspects of the Schuman Plan (CEA)
Production Models (ES)
Role of Government in Industrial Relations (IRRA)
Leadership and Communication in Companies and Trade Unions (IRRA)
10:00 A.M.
Basic Survey Course in Insurance (AAUTI)
Technical Aspects of Treasury Financing (AFA)
Meaning of Statistics Classified by Industry (ASA)
Use of Statistical Techniques in Evaluating the Effectiveness of Counseling Services (ASA, SWRG)
Application of Statistics to Chemistry (ASA)
Application of Statistics to Chemical Engineering (ASA)
General Review of Non-parametric Methods with Special Emphasis on Randomized Tests (ASA, BS)
Recent Developments in Occupational Mobility Research (ASA)
Elementary Statistics Courses in Relation to New Developments and Theory (ASA)
Randomization Theory of Experimental Inference (ASA, BS)
Social Choice Functions (ES, IMS)

10:45 A.M.
Visual Aids in Teaching (AMA)
11:45 A.M.
Luncheon: Tour of Chicago Title and Trust Co. (ABLA)
12:00 M.
Luncheon (AAUTI)
Luncheon: Marketing Research Today — Milestone or Millstone? (AMA)
Luncheon: The Stock Market (ASA)
Luncheon: Incoming Council and Board of Directors (ASA)
Luncheon: Biometrics Section Business Meeting (ASA)
Luncheon: Papal Teaching and International Economic Relations (CEA)
Asymptotic Estimation Theory (IMS)
12:15 P.M.
Luncheon: Canada's Postwar Finance (AEA, AFA, CACI)
12:30 P.M.
Luncheon: Presidential Address (IRRA)
1:45 P.M.
Selected Papers (ES)
2:00 P.M.
Revision of Section 213—A Major Life Insurance Problem (AAUTI)
Scope of Business Law (ABLA)
Critical Survey of Direct Federal Regulation (AFA)
Researching the Salesman to Increase His Productivity (AMA)
Application of Statistics to Physics (ASA)
Statistics for Small Business (ASA)
Problems and Activities of Experiment Station Statisticians (ASA, BS)
Response Errors in Enumerative Surveys (ASA)
Statistics of Industrial Relations (ASA, IRRA)
Union Co-operation in Promoting the Marshall Plan (CEA)
Organized Decision-Making (ES, IMS)
Applications of Nielsen Index Services (ACNC)
Tour (FFSLAC)
2:30 P.M.
Economics in the Curricula of Agricultural Colleges in Canada and the U.S. (AEA, AFEA)

Distribution and Utilization of Natural Gas (AEA)
Studies in Trade Union History and Development (IRRA)
Effective Utilization of the Labor Force (IRRA)
How Much and How Many (SRDS)
Tour (FRBC)
3:00 P.M.
Business Meeting (ABLA)
3:45 P.M.
Automobile Insurance—A Major Property Insurance Problem (AAUTI)
Business Meeting (AMA)
4:00 P.M.
Distribution of Government Burdens and Benefits (AEA, ASA)
Statistical Surveys as Legal Evidence (ASA)
Determination of Means and Regression Coefficients (ASA, BS)
New Development in Vital Statistics (ASA)
Point IV Program and Our Responsibilities to Underdeveloped Nations (CEA)
History of Mathematical Economics (ES)
Econometric Methods (ES)
Multiple Comparison Methods in the Analysis of Variance (IMS)
4:30 P.M.
Business Meeting (AFA)
5:00 P.M.
Business Meeting (CEA)
5:15 P.M.
Business Meeting (AAUTI)
6:00 P.M.
Dinner Meeting: Executive Committee (AEA)
1953 Council Meeting (IMS)
6:30 P.M.
Banquet (ABLA)
Dinner: Past and Present Officers (AFA)
7:00 P.M.
Banquet (AAUTI)
8:00 P.M.
Stock-taking of Bretton Woods Objectives (AEA)
What Is Actuarial Soundness in a Pension Plan? (ASA, AEA, AAUTI, IRRA)
Recent Applications of Statistical Methods in Various Countries (ASA)

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SCHEDULE OF MEETINGS

Monday, December 29, 1952

8:00 A.M.
PALMER HOUSE
Room 11
(3rd Floor)

Breakfast Meeting — Chapter Secretaries and District Representatives
American Statistical Association

8:00 A.M.
CONRAD HILTON HOTEL
Private Dining Room
No. 8 (3rd Floor)

Breakfast: Pi Gamma Mu, the National Social Science Honor Society

Chairman: Andrew J. Kress, Industrial College of the Armed Forces

8:00 A.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Contributed Papers II
Institute of Mathematical Statistics

Chairman: J. Kiefer, Cornell University

Papers: (13) ADMISSIBILITY OF CERTAIN STATISTICAL TESTS

E. Lehmann, University of California, and C. Stein, University of Chicago

(14) SOME EXPERIMENTAL DESIGNS FOR COMPARATIVE LIFE-TESTING

Allan Birnbaum, Columbia University

(15) EXISTENCE OF INVARIANT MINIMAX PROCEDURES

Herman Rubin, Stanford University

(16) A SIMPLE SEQUENTIAL PROCEDURE FOR TESTING STATISTICAL HYPOTHESES (Preliminary Report)

C. K. Tsao, Wayne University

(17) ASYMPTOTIC PROPERTIES OF THE ROBINS-MONRO PROCESS

J. L. Hodges, Jr., and E. L. Lehmann, University of California

(18) SOME NOTES ON THE APPLICATION OF SEQUENTIAL METHODS IN THE ANALYSIS OF VARIANCE

N. L. Johnson, University of North Carolina

(19) THE COVARIANCES OF FREQUENCIES FROM A MULTINOMIAL DISTRIBUTION UNDER A SEQUENTIAL SAMPLING RULE

M. C. K. Tweedie, Virginia Polytechnic Institute. Introduced by B. Harshbarger, Virginia Polytechnic Institute

(20) THE GROUP OF TRANSFORMATIONS LEAVING A SET OF NORMAL DISTRIBUTIONS INVARIANT (By title)

E. Lehmann, University of California and C. Stein, University of Chicago

Monday

(21) A NON-PARAMETRIC TWO SAMPLE LIFE TEST (By title)

Benjamin Epstein, Wayne University

(22) THE LARGE SAMPLE POWER OF A TEST BASED ON DICHOTOMIZATION (By title)

C. K. Tsao, Wayne University

(23) AN E-COMPLETE CLASS OF NON-SEQUENTIAL DECISION PROCEDURES IN THE FINITE CASE (By title)

Lionel Weiss, University of Virginia

8:15-11:30 A.M.
PALMER HOUSE
Grand Ballroom
(4th Floor)

Reliability and Usability of Soviet Statistics
American Statistical Association

Chairman: Stuart A. Rice, Bureau of the Budget

Introduction: The Issues Formulated (By the Chairman)

Papers: THE SOVIET STATISTICAL SYSTEM: (A Preliminary Examination)

Harry Schwartz, Syracuse University and New York Times

CONCEPTIONS OF SOCIO-ECONOMIC DATA INCORPORATED IN SOVIET CLASSIFICATION SYSTEMS

Vladimir S. Kolesnikoff, Bureau of the Budget

THE RELIABILITY AND USABILITY OF POPULATION AND VITAL STATISTICS

Frank Lorimer, American University

THE RELIABILITY AND USABILITY OF SOVIET AGRICULTURAL STATISTICS

Lazar Volin, Department of Agriculture

THE RELIABILITY AND USABILITY OF SOVIET NATIONAL INCOME STATISTICS

Alexander Gerschenkron, Harvard University

SUMMARY APPRAISAL

Abram Bergson, Columbia University

8:30 A.M.
PALMER HOUSE
Room 796
(7th Floor)

Teaching of Retailing
American Marketing Association

Chairman: Donald K. Beckley, Simmons College, Prince School of Retailing

EVALUATING THE MERCHANDISE EFFECTIVENESS OF A STORE

Speaker: Arthur W. Einstein, Pennsylvania College
MAKING USE OF RETAIL TRADE ASSOCIATION RESEARCH IN TEACHING RETAILING

Speaker: Harry A. Lipson, University of Alabama

Panel Discussion: CONDUCTING SHORT COURSES IN RETAILING

Chairman: Wenzil K. Dolva, Washington University

Monday

Panel Members: Delbert J. Duncan, University of California
Arthur W. Einstein, Pennsylvania State College
Donald K. Beckley, Simmons College, Prince School of Retailing

9:00 A.M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)

Marketing Strategy
American Marketing Association

Chairman: Stuart H. Britt, Needham, Louis, & Brorby, Inc.

WHERE SHOULD RESEARCH REALLY FIT INTO MARKETING STRATEGY?

Speaker: Harry V. Roberts, Assistant Professor, University of Chicago

PUTTING PREJUDICES AND STEREOTYPES TO WORK INTO YOUR ADVERTISING STRATEGY

Speaker: Burleigh Gardner, Executive Director, Social Research, Inc.

MARKETING NEW PRODUCTS - STRATEGY AND TACTICS

Speaker: Cliff Samuelson, Advertising Manager, Grocery Products, General Mills, Inc.

9:30 A.M.
MORRISON HOTEL
Hollywood Room
(Mezzanine)

Morning Session
American Business Law Association

Chairman: Essel R. Dillavou, University of Illinois

Speakers: THE PRESIDENT SPEAKS

John F. Sembower, Northwestern University
BUSINESS LAW - A PART OF THE EDUCATIONAL PROCESS

Joseph L. Frasca, University of Colorado

9:30 A.M.
CONRAD HILTON HOTEL
Upper Tower
(29th Floor)

Interregional Analysis and Regional Development
American Economic Association

Chairman: Ewald T. Grether, University of California

Papers: INTERREGIONAL COMMODITY FLOWS

Walter Isard, Harvard University

FUEL, POWER, AND INDUSTRIAL DEVELOPMENT IN CANADA

John Dales, McGill University

Discussion: David Schwartzman, Dominion of Canada Bureau of Statistics

Penelope Hartland Thunberg, Council of Economic Advisers

***New and Forthcoming Books in
the Irwin Series in Economics***

EDITORIAL COMMITTEE

Malcolm M. Davisson, University of California
Edward S. Shaw, Stanford University
Lloyd G. Reynolds, Yale University

NEW AND FORTHCOMING BOOKS

THE AMERICAN ECONOMY: Principles, Practices, and Policies

By C. Lowell Harriss, *Columbia University*
To be published Spring 1953

INTERNATIONAL ECONOMICS

By Charles P. Kindleberger, *Massachusetts Institute of Technology*
To be published Spring 1953

COLLECTIVE BARGAINING: Principles and Cases

Revised Edition, By John T. Dunlop and James J. Healey, both of *Harvard University*
To be published June 1, 1953

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Monday

9:30 A.M.
CONRAD HILTON
HOTEL
North Ballroom
(3rd Floor)

The Theory of Income Distribution
American Economic Association

Chairman: Lloyd G. Reynolds, Yale University
Papers: THE FRUITS OF PROGRESS AND THE DYNAMICS
OF DISTRIBUTION
Kenneth E. Boulding, University of Michigan
SIGNIFICANCE AND LIMITATIONS OF CONTEM-
PORARY DISTRIBUTION THEORY
William J. Fellner, Yale University
Discussion: Harold M. Levinson, University of Michigan
Edward C. Budd, Yale University

9:30 A.M.
CONRAD HILTON
HOTEL
Private Dining Room
No. 2
(3rd Floor)

**Some Economic and Social Aspects of the
Schuman Plan**
Catholic Economic Association

Chairman: Rev. Edmund A. Kurth, Loras College
Speaker: Cyril Zebot, Duquesne University
Discussion: Rev. James J. McGinley, S.J., Fordham Uni-
versity
Sr. M. Adrian, R.S.M., Mount Mercy College

9:30 A.M.
CONRAD HILTON
HOTEL
West Ballroom
(3rd Floor)

Production Models
Econometric Society

Chairman: George B. Dantzig, The RAND Corporation
Papers: AN APPLICATION OF ACTIVITY ANALYSIS TO
THE THEORY OF THE FIRM
Michael Farrell, Yale University
MATHEMATICAL MODELS OF INDUSTRIAL PRO-
DUCTION
James R. Jackson, University of California
at Los Angeles
SCHEDULING OF MANUFACTURED PRODUCTS
William W. Cooper and Abraham Charnes,
Carnegie Institute of Technology, and
Donald Farr, Methods Engineering Council
Discussion: Robert Mellon, Gulf Oil Corp.
Andrew Zazsonyi, Hughes Aircraft Corp.

Monday

9:30 A.M.
CONRAD HILTON
HOTEL
North Ballroom
Assembly
(3rd Floor)

**The Role of Government in Industrial Rela-
tions**
Industrial Relations Research Association

Chairman: Edwin E. Witte, University of Wisconsin
Papers: GOVERNMENT ATTITUDES AND POLICIES
TOWARD THE ORGANIZATION OF PUBLIC EM-
PLOYEES
Arnold S. Zander, American Federation of
State, County & Municipal Employees
THE PROBLEM OF THE SETTLEMENT OF EMER-
GENCY DISPUTES
John T. Dunlop, Harvard University
Discussion: Sterling D. Spero, New York University
Peter Seitz, Liebmann Breweries, Inc.

9:30 A.M.
CONRAD HILTON
HOTEL
Lower Tower
(28th Floor)

**Leadership and Communication in Companies
and Trade Unions**
Industrial Relations Research Association

Chairman: Vincent W. Bladen, University of Toronto
Papers: FACTORS IN COMPANY COMMUNICATIONS
SYSTEMS
Raymond W. Peters, Esso Standard Oil Com-
pany
PROBLEMS IN COMMUNICATION BETWEEN
LEADERSHIP AND MEMBERSHIP IN TRADE
UNIONS
George J. Strauss, Cornell University
Leonard R. Sayles, Cornell University
Discussion: Joel Seidman, University of Chicago
William Gomberg, International Ladies' Gar-
ment Workers' Union

10:00 A.M.
MORRISON HOTEL
Venetian Room
(2nd Floor)

The Basic Survey Course in Insurance
*American Association of University Teachers
of Insurance*

Moderator: Charles C. Center, University of Wisconsin
Participants: William T. Beadles, Illinois Wesleyan Univer-
sity
John S. Bickley, Ohio State University
David A. Ivry, University of Connecticut
Ralph H. Wherry, The Pennsylvania State Col-
lege

Monday

10:00 A.M.
CONRAD HILTON
HOTEL
Private Dining Room
No. 1
(3rd Floor)

Technical Aspects of Treasury Financing
American Finance Association

- Chairman:* John C. Clendenin, University of California
Papers: SAVINGS BONDS IN PERSONAL INVESTMENT PROGRAMS
O. K. Burrell, University of Oregon
TREASURY BOND POLICY FROM THE INSTITUTIONAL POINT OF VIEW
George Conklin, Guardian Life Insurance Company
MAJOR FACTORS AND TRENDS IN THE GOVERNMENT BOND MARKET
Leroy M. Piser, Aubrey Lanston and Company
Discussion: Robert C. Holland, Federal Reserve Bank of Chicago
Herbert Dougall, Stanford University

10:00 A.M.
PALMER HOUSE
Foyer of Grand
Ballroom
(4th Floor)

The Meaning of Statistics Classified by Industry
American Statistical Association

- Chairman:* Walter F. Ryan, Bureau of the Budget
Papers: THE ELEMENTS OF AN INDUSTRIAL CLASSIFICATION SYSTEM
Walt R. Simmons, Bureau of Labor Statistics
REPORTING OF INFORMATION BY ESTABLISHMENT: THEORY AND PRACTICE
Maxwell R. Conklin, Bureau of the Census
William H. Cummins, Bureau of the Old-Age and Survivors Insurance
Discussions: Leonard A. Drake, Chamber of Commerce of Greater Philadelphia
Hyman Bookbinder, Amalgamated Clothing Workers of America
Tillman Sogge, St. Olaf College

10:00 A.M.
PALMER HOUSE
Room 6
(3rd Floor)

Use of Statistical Techniques in Evaluating the Effectiveness of Counseling Services
Joint Session: ASA, SWRG

- Chairman:* Edwin W. Davis, University of Illinois
Papers: MEASURING EFFECTIVENESS OF PSYCHOTHERAPY
Carl Rogers, University of Chicago
EVALUATING COUNSELING IN SOCIAL WORK
Charles P. Gershenson, Jewish Children's Bureau

Monday

ESTABLISHING DIAGNOSTIC CATEGORIES FOR COUNSELING TYPES
Harold B. Pepinsky, Ohio State University
MEASURING OF UNCONSCIOUS ATTITUDES
Fred Fiedler, University of Illinois

10:00 A.M.
PALMER HOUSE
Room 7
(3rd Floor)

Application of Statistics to Chemistry
American Statistical Association

- Chairman:* W. J. Youden, Bureau of Standards
Papers: CARBON-14 IN DATING
W. F. Libby, University of Chicago
PHILOSOPHY OF EXPERIMENTATION
G. E. Kimball, Columbia University
Discussion: G. E. Albert, University of Tennessee
R. J. Monroe, University of North Carolina

10:00 A.M.
PALMER HOUSE
Room 8
(3rd Floor)

Application of Statistics to Chemical Engineering
American Statistical Association

- Chairman:* J. C. Whitwell, Princeton University
Papers: A FACTORIAL DESIGN APPLIED TO A SPECIFIC CHEMICAL PROCESS AND DEVELOPMENT PROBLEM
H. Grohskopf, American Cyanamid Company
F. Wilcoxon, American Cyanamid Company
PHYSICAL PROPERTIES OF WOOL FIBERS DEPENDENCE UPON FIBER DIAMETER AND GRADE
T. F. Evans, Textile Research Institute
Discussions: Cuthbert Daniel
K. A. Brownlee, University of Chicago

10:00 A.M.
PALMER HOUSE
Room 9
(3rd Floor)

General Review of Non-Parametric Methods with Special Emphasis on Randomized Tests
Joint Session: ASA, BS

- Chairman:* John W. Tukey, Princeton University
Papers: GENERAL REVIEW OF NON-PARAMETRIC METHODS, WITH SPECIAL EMPHASIS ON RANDOMIZED TESTS
Lincoln E. Moses, Stanford University
RANK ANALYSIS IN THE ESTIMATION OF THRESHOLD VALUES
M. E. Terry, Bell Telephone Laboratories, Murray Hill, New Jersey
POWER OF NON-PARAMETRIC TESTS FOR NORMAL ALTERNATIVES
W. J. Dixon, University of Oregon
Discussions: A. M. Mood, RAND Corporation

Monday

W. H. Kruskal, University of Chicago
D. R. Whitney, Ohio State University

10:00 A.M.
PALMER HOUSE
Room 14
(Club Floor)

Recent Developments in Occupational Mobility Research
American Statistical Association

Chairman: Gladys L. Palmer, University of Pennsylvania

Papers: RESEARCH DESIGN OF THE SURVEY OF PATTERNS AND FACTORS IN MOBILITY OF SIX CITIES

Margaret Gordon, University of California
A TECHNIQUE FOR ANALYZING THE INFLUENCE OF ONE OR MORE FACTORS ON DIFFERENCES IN CRUDE MOBILITY RATES

Evelyn M. Kitagawa, University of Chicago
TECHNIQUES FOR ANALYSIS OF VERTICAL MOBILITY

Albert J. Reiss, Jr., Vanderbilt University
RESEARCH DESIGN FOR STUDIES OF THE MOBILITY OF WORKERS IN CRITICAL OCCUPATIONS

Harold Goldstein, Bureau of Labor Statistics
THE APPLICATION OF MOBILITY RESEARCH TO LABOR SUPPLY MODELS

Robert Steffes, Bureau of the Budget

10:00 A.M.
PALMER HOUSE
Room 17
(Club Floor)

Elementary Statistics Courses in Relation to New Developments and Theory
American Statistical Association

Chairman: Rutledge Vining, University of Virginia

Papers: NON-PARAMETRIC METHODS IN THE ELEMENTARY STATISTICS COURSE

Dr. Ralph Bradley, Virginia Polytechnic Institute

DECISION THEORY IN THE ELEMENTARY STATISTICS COURSE

J. Kiefer, Cornell University

Discussions: Max A. Woodbury, University of Pennsylvania

10:00 A.M.
PALMER HOUSE
Room 18
(Club Floor)

Randomization Theory of Experimental Inference
Joint Session: ASA, BS

Chairman: A. M. Mood, RAND Corporation, Santa Monica, California

Papers: RANDOMIZATION THEORY OF EXPERIMENTAL INFERENCE

O. Kempthorne, Iowa State College

Discussion: W. G. Cochran, Johns Hopkins University

Monday

10:00 A.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Social Choice Functions
Joint Session: ES, IMS

Chairman: Howard R. Bowen, Williams College

Papers: A SUGGESTED APPROACH TO PROBLEMS OF GROUP CHOICE

Clifford C. Hildreth, Cowles Commission for Research in Economics and University of Chicago

SOME SOCIOLOGICAL OBSERVATIONS ON DECISION-MAKING

Edward A. Shils and Edward C. Banfield, University of Chicago

Discussion: Alexander Henderson, Carnegie Institute of Technology

Abba P. Lerner, Roosevelt College

10:45-11:45 A.M.
PALMER HOUSE
Room 796
(7th Floor)

Visual Aids in Teaching
American Marketing Association

Chairman: Hugh G. Wales, University of Illinois
USING VISUAL AIDS IN THE TEACHING OF MARKETING

Speaker: O. H. Coelln, *Business Screen Magazine*

11:45 A.M.
CHICAGO TITLE
AND TRUST CO.
111 W. Washington St.

Luncheon; Tour of Chicago Title and Trust Company
American Business Law Association

12:00 M.
MORRISON HOTEL
Cotillion Room

Luncheon: for Active Members of American Association of University Teachers of Insurance

Host: Western Underwriters Association

12:00 M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)

Luncheon: Marketing Research Today – Milestone or Millstone?
American Marketing Association

Speaker: John E. Jeuck, Dean of School of Business, University of Chicago

Tickets \$4.00, available at registration desk.

12:00 M.
PALMER HOUSE
Grand Ballroom
(4th Floor)

Luncheon: The Stock Market
American Statistical Association

Chairman: J. Parker Hall, Investment Analysts Society of Chicago

Monday

Papers: THE RAILROAD OUTLOOK FOR 1953
Pierre R. Bretey, Baker, Weeks & Harden
PROJECTING CORPORATE EARNINGS
Jeremy C. Jenks, Cyrus J. Lawrence & Sons
THE OUTLOOK FOR THE STOCK MARKET
Richard W. Lambourne, Dodge & Cox

Discussion: M. Dutton Morehouse, Brown Brothers, Harri-
man & Co.

Tickets \$3.25, available at registration desk.

12:00 M.
PALMER HOUSE
Room 5
(3rd Floor)

Luncheon: Incoming Council and Board of
Directors Meeting
American Statistical Association

12:00 M.
PALMER HOUSE
Room 11
(3rd Floor)

Luncheon: Biometrics Section – Business Meet-
ing
American Statistical Association

12:00 M.
CONRAD HILTON
HOTEL
Private Dining Room
No. 2
(3rd Floor)

Luncheon: Papal Teaching and International
Economic Relations
Catholic Economic Association

Chairman: John H. Sheehan, University of Notre Dame
Guest: His Eminence, Samuel Cardinal Stritch, Arch-
bishop of Chicago
Speaker: Rev. Raymond J. Miller, C.S.S.R., President of
the Catholic Economic Association

12:00 M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Special Invited Address
Institute of Mathematical Statistics

Chairman: Herbert Solomon, Columbia University
ASYMPTOTIC ESTIMATION THEORY
Jacob Wolfowitz, Cornell University and the
University of California at Los Angeles

12:15 P.M.
CONRAD HILTON
HOTEL
Grand Ballroom
(2nd Floor)

Luncheon Meeting: Canada's Postwar Finance
Joint Session: AEA, AFA, CACI

Chairman: Leverett S. Lyon, Chicago Association of Com-
merce and Industry
Speaker: W. C. Clark, Deputy Minister of Finance, Do-
minion of Canada
Tickets \$3.25, available at Registration Desk.

Monday

12:30 P.M.
CONRAD HILTON
HOTEL
South Ballroom
(3rd Floor)

Luncheon: Industrial Relations Research Asso-
ciation

PRESIDENTIAL ADDRESS
J. Douglas Brown, Princeton University

1:45 P.M.
CONRAD HILTON
HOTEL
Room 12
(4th Floor)

Selected Papers
Econometric Society

Chairman: Martin Bronfenbrenner, University of Wiscon-
sin

Papers: CLASSICAL THEORY, GRAHAM'S THEORY, AND
LINEAR PROGRAMMING IN INTERNATIONAL
TRADE

Thomson M. Whitin, Princeton University
THE PROGRAMMING OF INDEPENDENT SOURCES
Lionel W. McKenzie, Duke University
A NOTE ON THE CONCEPTS OF CONSUMERS'
SURPLUS
Shinichi Ichimura, Massachusetts Institute of
Technology

2:00-3:30 P.M.
MORRISON HOTEL
Venetian Room
(2nd Floor)

Panel I: The Revision of Section 213 – A Ma-
jor Life Insurance Problem
*American Association of University Teachers
of Insurance*

Moderator: Robert I. Mehr, University of Illinois
Speakers: Daniel J. Lyons, The Guardian Life Insurance
Company
Spencer L. McCarty, New York State Associa-
tion of Life Underwriters

2:00 P.M.
MORRISON HOTEL
Hollywood Room
(Mezzanine)

The Scope of Business Law
American Business Law Association

Chairman: Harold Lusk, Indiana University
Speaker: William Zelermyer, Utica College of Syracuse
University

2:00 P.M.
CONRAD HILTON
HOTEL
Private Dining Room
No. 1
(3rd Floor)

Critical Survey of Direct Federal Regulation
American Finance Association

Chairman: Ernst Dauer, Household Finance Corporation

Monday

Papers: DIRECT REGULATION OF HOUSING CREDIT
Miles Colean, independent consultant
DIRECT REGULATION OF CONSUMER CREDIT
Robert Bartels, Ohio State University
COMPETITION AMONG INVESTMENT BANKERS
Paul Howell, New York University

Discussion: T. Everett Ashley, Housing and Home Finance
Administration
Arthur R. Uppgren, University of Minnesota
Robert Shea, University of Maine

2:00 P.M.
PALMER HOUSE
Foyer of Grand
Ballroom
(4th Floor)

**Researching the Salesman to Increase His
Productivity**
American Marketing Association

Chairman: James F. Hawkinson, Professor of Marketing,
Northwestern University

Panel Members: Fred C. Akers, Assistant to Vice President of
Industrial Sales, Crane Co.
John C. Harkness, Partner, A. T. Kearney &
Company
Gene L. Powers, Director of Sales Training and
Sales Personnel, Swift & Company

2:00 P.M.
PALMER HOUSE
Room 8
(3rd Floor)

Application of Statistics to Physics
American Statistical Association

Chairman: W. E. Deming, Bureau of the Budget

Papers: PRECISION MEASUREMENTS IN THERMOMETRY
H. F. Stimson, Bureau of Standards
COMPARISON OF STANDARD METER BARS
W. J. Youden, National Bureau of Standards
Lewis V. Judson, National Bureau of Stand-
ards

Discussions: Edgar P. King, National Bureau of Standards
David Votaw, Yale University

2:00 P.M.
PALMER HOUSE
Room 9
(3rd Floor)

Statistics for Small Business.
American Statistical Association

Chairman: Alvin Mayne, National Production Authority

Papers: PROBLEMS OF SMALL BUSINESS IN A MOBILIZA-
TION ECONOMY
Roderick Riley, Small Defense Plants Ad-
ministration
EMPLOYMENT TRENDS AMONG SMALL BUSI-
NESSES SINCE KOREA
Seymour Wolfbein, Bureau of Labor Statistics

Monday

Discussions: A. D. H. Kaplan, Brookings Institution
A. J. Jaffe, Columbia University Representative,
Senate Committee on Small Business

2:00 P.M.
PALMER HOUSE
Room 14
(Club Floor)

**Problems and Activities of Experiment Station
Statisticians**
Joint Session: ASA, BS

Chairman: H. W. Norton, University of Illinois

Papers: ORGANIZATIONAL AND STATISTICAL PROBLEMS
FACING THE NEOPHYTE STATION STATISTICIAN
J. G. Darroch, Washington State College
ORGANIZATION AND SCOPE OF ACTIVITIES OF
STATION STATISTICIANS
C. E. Marshall, Oklahoma A & M

Discussions: Henry Tucker, Kansas State College
V. L. Anderson, Purdue University
P. G. Homeyer, Iowa State College
R. J. Monroe, North Carolina State College

2:00 P.M.
PALMER HOUSE
Room 17
(Club Floor)

The Statistics of Industrial Relations
Joint Session: ASA, IRRA

Chairman: Nelson M. Bortz, Railroad and Airlines Wage
Board

Papers: CONCENTRATION OF TRADE UNION MEMBER-
SHIP
Leo Wolman, National Bureau of Economic
Research
SCOPE AND EXTENT OF COLLECTIVE BARGAIN-
ING
Kirk R. Petchek, Bureau of Labor Statistics

Discussions: Philip Taft, Brown University
Albert S. Epstein, International Association of
Machinists

2:00 P.M.
PALMER HOUSE
Room 18
(Club Floor)

Response Errors in Enumerative Surveys
American Statistical Association

Chairman: Rensis Likert, University of Michigan

Papers: CURRENT EXPERIENCE AND RESEARCH FIND-
INGS

Presented By: Eli Marks, Bureau of the Census
Herbert Hyman, National Opinion Research
Center
Leslie Kish, University of Michigan
Fritz Kafka, Bureau of Labor Statistics

Monday

2:00 P.M.
CONRAD HILTON HOTEL
Lower Tower
(28th Floor)

Union Cooperation in Promoting the Marshall Plan
Catholic Economic Association

Chairman: Bro. L. Robert Shannon, F.S.C., St. Mary's College

Speaker: Rev. George G. Higgins, National Catholic Welfare Conference

Discussion: Francis J. Brown, DePaul University
Edward Marciniak, Editor, WORK

2:00 P.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Organized Decision-Making
Joint Session: ES, IMS

Chairman: Sebastian B. Littauer, Columbia University

Papers: BASIC PROBLEMS IN THE ECONOMIC THEORY OF TEAMS

Jacob Marschak, Cowles Commission for Research in Economics and University of Chicago

THE STUDY OF AN INFORMATION PROCESSING CENTER

Allen Newell, The RAND Corporation

Discussion: Daniel Gray, Massachusetts Institute of Technology
Nicolas Rashevsky, University of Chicago

2:00-2:30 P.M.
PALMER HOUSE
Booth 28
Exhibition Hall

Applications of Nielsen Index Services
A. C. Nielsen Company

Speakers: J. P. Napier
C. J. Weber
John Boesel

2:00 P.M.
FIRST FEDERAL BUILDING
7 South Dearborn St.

Tour of Offices and Discussion of Operating Procedures
First Federal Savings and Loan Association of Chicago

Limit of 15 persons on tour; information and reservations at information desks and in Press Room (CONRAD HILTON Room 19 on 4th floor; PALMER HOUSE Room 2 on 3rd floor).

2:30 P.M.
CONRAD HILTON HOTEL
North Ballroom
(3rd Floor)

Economics in the Curricula of Agricultural Colleges in Canada and the United States
Joint Session: AEA, AFEA

Chairman: John D. Black, Harvard University

Monday

Papers: ECONOMICS IN THE CURRICULA OF AGRICULTURAL COLLEGES IN CANADA
Andrew Stewart, University of Alberta
ECONOMICS IN THE CURRICULA OF AGRICULTURAL COLLEGES IN THE UNITED STATES
T. K. Cowden, Michigan State College

Discussion: D. Gale Johnson, University of Chicago
Frederick V. Waugh, U.S. Department of Agriculture

2:30 P.M.
CONRAD HILTON HOTEL
North Ballroom
Assembly
(3rd Floor)

Distribution and Utilization of Natural Gas
(program arranged by W. H. S. Stevens)
American Economic Association

Chairman: Eli W. Clemens, University of Maryland

Papers: THE ECONOMICS OF PRODUCTION, CONSERVATION, AND DISTRIBUTION OF AN EXHAUSTIBLE RESOURCE: THE NATURAL GAS PROBLEM

Dudley F. Pegrum, University of California at Los Angeles

THE INTRODUCTION AND UTILIZATION OF NATURAL GAS: THE WISCONSIN EXPERIENCE

H. J. O'Leary, Wisconsin Public Service Commission

Discussion: Horace M. Gray, University of Illinois
Joseph R. Rose, University of Pennsylvania

2:30 P.M.
CONRAD HILTON HOTEL
Private Dining Room
No. 2
(3rd Floor)

Studies in Trade Union History and Development
Industrial Relations Research Association

Chairman: David A. McCabe, Princeton University

Papers: THE GROWTH OF THE NATIONAL UNION IN THE U.S.

Lloyd Ulman, University of Minnesota

THE NATIONAL UNION OF MINeworkers IN GREAT BRITAIN UNDER NATIONALIZATION

George B. Baldwin, Massachusetts Institute of Technology

Discussion: Solomon Barkin, Textile Workers Union of America

David Kaplan, International Brotherhood of Teamsters

Monday

2:30 P.M.
CONRAD HILTON HOTEL
West Ballroom
(3rd Floor)

The Effective Utilization of the Labor Force
Industrial Relations Research Association

Chairman: Frederick H. Harbison, University of Chicago
Papers: THE SHIFTING PATTERNS IN THE AVAILABLE LABOR FORCE IN THE U.S.A.
Charles D. Stewart, Bureau of Labor Statistics, U.S. Department of Labor
THE ADJUSTMENT OF PATTERNS OF UTILIZATION TO AVAILABLE LABOR SUPPLY
Robert L. Clark, National Security Resources Board
Discussion: Meredith B. Givens, N.Y. State Division of Placement & Unemployment Insurance
Dale Yoder, University of Minnesota

2:30-3:00 P.M.
PALMER HOUSE
Booth 32
Exhibition Hall

How Much and How Many
Standard Rate and Data Service

Speaker: Lyman Forbes

2:30 P.M.
FEDERAL RESERVE BANK
230 South La Salle St.

Tour of Operations
Federal Reserve Bank of Chicago
Discussion with Economists of the Bank
Register for tour with personnel of the Chicago Bank at Exhibition Booth 13, CONRAD HILTON Hotel.

3:00 P.M.
MORRISON HOTEL
Hollywood Room
(Mezzanine)

Business Meeting
American Business Law Association

Chairman: John F. Sembower, President, ABLA

3:45-5:00 P.M.
MORRISON HOTEL
Venetian Room
(2nd Floor)

Panel II: Automobile Insurance - A Major Property Insurance Problem
American Association of University Teachers of Insurance

Moderator: Philip N. Snodgrass, General Casualty Company of Wisconsin
Speakers: William Leslie, National Bureau of Casualty Underwriters
John M. Breen, Mutual Insurance Institute, Lumbermens Mutual Casualty Company

Monday

3:45 P.M.
PALMER HOUSE
Foyer of Grand Ballroom
(4th Floor)

Business Meeting
American Marketing Association

4:00 P.M.
CONRAD HILTON HOTEL
South Ballroom
(3rd Floor)

The Distribution of Government Burdens and Benefits
Joint Session: AEA, ASA

Chairman: Simcon E. Leland, Northwestern University
Papers: GENERAL EQUILIBRIUM ASPECTS OF INCIDENCE THEORY
Richard A. Musgrave, University of Michigan
DISTRIBUTION OF GOVERNMENT BURDENS AND BENEFITS BY INCOME CLASSES
Rufus S. Tucker, General Motors Corporation
Discussion: Harold M. Groves, University of Wisconsin
Earl R. Rolph, National Bureau of Economic Research
Richard B. Goode, International Monetary Fund

4:00 P.M.
PALMER HOUSE
Red Lacquer Room
(4th Floor)

Statistical Surveys as Legal Evidence
American Statistical Association

Chairman: Leslie N. Jones, Illinois Bell Telephone Company
Speakers: Melvin F. Wingersky, DePaul University
W. Edwards Deming, Bureau of the Budget and New York University
Discussion: Frederick F. Stephan, Princeton University
Shelby Grey, U. S. Food and Drug Administration

4:00 P.M.
PALMER HOUSE
Room 14
(Club Floor)

Determination of Means and Regression Coefficients
Joint Session: ASA, BS

Chairman: Forman S. Acton, Forrestal Research Center, Princeton University
Papers: COMPARISON OF THE MEANS OF TWO SAMPLES
David Wallace, Princeton, New Jersey
EXPOSITION OF STRAIGHT LINE FITTING METHODS
Richard F. Link, Princeton, New Jersey

Monday

4:00 P.M.
PALMER HOUSE
Room 17
(Club Floor)

The New Development in Vital Statistics
American Statistical Association

- Chairman:* Halbert L. Dunn, Office of Vital Statistics
Papers: PRODUCTION OF VITAL STATISTICS AS A COMBINED FEDERAL-STATE OPERATION
O. K. Sagen, State Department of Public Health, Illinois
BROADENING THE SIGNIFICANCE OF VITAL STATISTICS THROUGH SPECIAL STUDIES
Paul M. Densen, University of Pittsburgh
IMPROVING MARRIAGE AND DIVORCE STATISTICS
Hugh Carter, Office of Vital Statistics
Discussions: Howard West, Office of Vital Statistics
Sam Shapiro, Office of Vital Statistics
Paul C. Glick, Bureau of the Census

4:00 P.M.
HOTEL
CONRAD HILTON
Lower Tower
(28th Floor)

The Point IV Program and Our Responsibilities to Underdeveloped Nations
Catholic Economic Association

- Chairman:* Rev. Cletus F. Dirksen, C.P.P.S., St. Joseph's College
Speakers: Rev. William J. Gibbons, S.J., National Catholic Rural Life Conference
Discussion: Rev. William J. Collins, St. Ambrose College
Helen C. Potter, University of California

4:00 P.M.
CONRAD HILTON
HOTEL
Room 14
(Club Floor)

History of Mathematical Economics
Econometric Society

- Chairman:* Harold T. Davis, Northwestern University
Papers: WICKSELL'S ROLE IN THE DEVELOPMENT OF MATHEMATICAL ECONOMICS
Carl G. Uhr, California Study Commission on Unemployment Insurance
AN EXTENSION OF PHILIP WICKSTEED'S THEORY OF DISTRIBUTION
Ralph W. Pfouts, University of North Carolina
IRVING FISHER AND HIS TIME
Ross M. Robertson, University of Tennessee
Informal Discussion

Monday

4:00 P.M.
PALMER HOUSE
Room 18
(Club Floor)

Econometric Methods
Econometric Society

- Chairman:* Tjalling C. Koopmans, Cowles Commission for Research in Economics, and University of Chicago
Papers: CONSISTENT ESTIMATORS OF STRUCTURAL PARAMETERS
Jacob Wolfowitz, Cornell University and University of California at Los Angeles
THE SPECIFICATION PROBLEM IN REGRESSION ANALYSIS
H. S. Houthakker, Cowles Commission for Research in Economics
Discussion: John Gurland, Iowa State College
Guy H. Orcutt, Harvard University
Christopher Winston, Cowles Commission for Research in Economics and Institute of Statistics, Oxford University

4:00 P.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Multiple Comparison Methods in the Analysis of Variance
Institute of Mathematical Statistics

- Chairman:* W. G. Madow, University of Illinois
VARIOUS METHODS FROM A UNIFIED POINT OF VIEW
J. W. Tukey, Princeton University
ON THE OPERATING CHARACTERISTIC OF A METHOD BASED ON THE F-DISTRIBUTION
H. Scheffé, Columbia University
Discussion: J. Neyman, University of California
J. Cornfield, National Institute of Health

4:30 P.M.
CONRAD HILTON
HOTEL
Private Dining Room
No. 2
(3rd Floor)

Annual Business Meeting
American Finance Association

5:00 P.M.
CONRAD HILTON
HOTEL
Lower Tower
(28th Floor)

Business Meeting
Catholic Economic Association

- Chairman:* Rev. Raymond J. Miller, C.S.S.R.

Monday

5:15 P.M. Annual Business Meeting
MORRISON HOTEL
Venetian Room
(2nd Floor) *American Association of University Teachers
of Insurance*

6:00 P.M. Dinner Meeting of the Executive Committee
CONRAD HILTON HOTEL
Private Dining Room
No. 6
(3rd Floor) *American Economic Association*

6:00 P.M. 1953 Council Meeting
PALMER HOUSE
Room 6
(3rd Floor) *Institute of Mathematical Statistics*

6:30 P.M. Banquet
ELECTRIC CLUB
20 North Wacker
Drive *American Business Law Association*
Informal; for members, their wives and guests.

6:30 P.M. Dinner for Past and Present Officers
CONRAD HILTON HOTEL
Private Dining Room
No. 9
(3rd Floor) *American Finance Association*

7:00 P.M. Annual Banquet
MORRISON HOTEL
Cotillion Room *American Association of University Teachers
of Insurance*

Speaker: Dr. G. F. Tegtmeier, Medical Director, North-
western Mutual Life Insurance Company
Topic: MORTALITY AND IMMORTALITY
Tickets \$4.85, available at registration desk.

8:00 P.M. A Stock-taking of Bretton Woods Objectives
CONRAD HILTON HOTEL
Grand Ballroom
(2nd Floor) *American Economic Association*

Chairman: Howard S. Ellis, University of California
Papers: TRADE POLICY FOR THE FIFTIES
Clair Wilcox, Swarthmore College
STERLING CONVERTIBILITY AND SOME RE-
LATED PROBLEMS
William Adams Brown, Jr., Brookings Insti-
tution
INTERNATIONAL MONETARY ARRANGEMENTS
Gottfried Haberler, Harvard University
Discussion: Marcus Fleming, Columbia University
Herbert Furth, Board of Governors of the Fed-
eral Reserve System
John M. Letiche, University of California

Monday

8:00 P.M. What Is Actuarial Soundness in a Pension
PALMER HOUSE Plan?
Red Lacquer Room *Joint Session: ASA AEA, AAUTI, IRRA*
(4th Floor)

Chairman: Henry W. Steinhaus, Equitable Life Assurance
Society

Papers: THE CONCEPT OF ACTUARIAL SOUNDNESS
Dorrance C. Bronson, Wyatt Company
ACTUARIAL SOUNDNESS IN GROUP ANNUITY
PLANS
Ray M. Peterson, Equitable Life Assurance
Society

ACTUARIAL SOUNDNESS IN TRUSTEED AND
GOVERNMENTAL RETIREMENT PLANS
George B. Buck, Consulting Actuary

LEGAL IMPLICATIONS OF ACTUARIAL SOUND-
NESS
Edwin S. Cohen, Hatch, Root, Barrett, Cohen
& Knapp

LABOR'S VIEW OF ACTUARIAL REQUIREMENTS
IN PENSION PLANS
Solomon Barkin, Textile Workers, C.I.O.

8:00 P.M. Recent Applications of Statistical Methods in
PALMER HOUSE Various Countries
Grand Ballroom *American Statistical Association*
(4th Floor)

Chairman: Dr. Stuart Rice, President, International Sta-
tistical Institute and Bureau of the Budget

Papers: SOME RECENT APPLICATIONS OF STATISTICS
IN AUSTRALIA
Maurice H. Belz, Professor of Mathematics,
University of Melbourne

SOME RECENT DEVELOPMENTS IN CANADIAN
STATISTICS
Herbert Marshall, Dominion Statistician,
Canada

RECENT APPLICATIONS OF QUALITY CONTROL
IN JAPAN
Dr. N. Yamaki, Mitsubishi Electric Manu-
facturing Company

RECENT SAMPLING SURVEYS OF POPULATION
AND AGRICULTURE IN BENGAL
N. Chakravarti, Director, State Statistical Bu-
reau, Government of West Bengal

RECENT APPLICATIONS OF STATISTICAL METH-
ODS ON NATIONAL INCOME
Dr. G. Findlay Shirras, Visiting Professor of
Economics, University of Illinois

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SUMMARY OF TUESDAY MEETINGS

8:00 A.M.

Breakfast: Officers (ABLA)

9:00 A.M.

Breakfast: Wives of Members (ABLA)

9:30 A.M.

Morning Session (ABLA)

10:00 A.M.

1952 Pre-Election Polls (ASA)

Application of Statistics in Engineering (ASA)

Sampling Inspection in Public Assistance (ASA, SWRG)

Statistical Techniques in Management (ASA)

Discussion of Congressional House Committee Report of the Investigation of the Federal Crop Reporting Service (ASA, AFEA)

Contributed Papers — III (IMS)

Tour (FRBC)

10:30 A.M.

Tour (FNBC)

12:00 M.

Luncheon: Business Meeting — Committee on Statistics in Social Sciences (ASA)
Invited Addresses (IMS)

OXFORD BOOKS

History of Economic Analysis

By JOSEPH A. SCHUMPETER, author of *TEN GREAT ECONOMISTS*. A survey of economic thought from ancient Greece to the 20th century. Professor Schumpeter analyzes the great economists and their theories, as well as specific topics such as money, credit and business cycles. His comprehensive treatment makes this an indispensable history for every branch of economics. To be published February, 1953. 1376 pages. Two volumes. \$20.00. College edition, in one volume, \$12.50

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By JOHN H. WILLIAMS. A brilliant series of essays which have as their central theme the relation of economic theory to public policy. The book is divided into three parts: PART I, dealing with fundamental current issues of theory and policy; PART II, with the Marshall Plan; and PART III, with the theme of free enterprise and full employment, as well as the monetary doctrines of Keynes. To be published February 5, 1953. 312 pages. Probable price, \$5.00

The Theory of International Economic Policy:

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SCHEDULE OF MEETINGS

Tuesday, December 30, 1952

8:00 A.M. Breakfast for the Officers of the American
MORRISON HOTEL Business Law Association
Boston Oyster House

9:00 A.M. Breakfast for the Wives of Members of the
MORRISON HOTEL American Business Law Association
Place to be announced.

9:30 A.M. Morning Session
MORRISON HOTEL American Business Law Association
Hollywood Room
(Mezzanine)

Chairman: Robert E. Stone, Syracuse University
Papers: HOW TO MAKE BUSINESS LAW A PRACTICAL
AND LIVE SUBJECT
Louis O. Bergh, New York University
THE IMPORTANCE OF REAL ESTATE LAW IN
THE BUSINESS LAW CURRICULUM
Wesley C. Harter, Florida State University
Informal discussion.
Introduction of new officers.

10:00 A.M. 1952 Pre-Election Polls
PALMER HOUSE American Statistical Association
Grand Ballroom
(4th Floor)

Chairman: Philip M. Hauser, University of Chicago
For the Crosley Poll: Archibald M. Crosley
For the Gallup Poll: George Gallup
For the Roper Poll: Louis Harris

10:00 A.M. Application of Statistics in Engineering
PALMER HOUSE American Statistical Association
Room 8
(3rd Floor)

Chairman: Boyd Harshbarger, Virginia Polytechnic Institute
Papers: SOME APPLICATIONS OF STATISTICS TO TIME
AND MOTION RESEARCH
Hale C. Sweeny, Virginia Polytechnic Institute
TESTING HOMOGENEITY OF TREATMENTS IN
AN ANALYSIS OF VARIANCE OF ENGINEERING
DATA
David B. Duncan, Virginia Polytechnic Institute
Discussions: I. W. Burr, Purdue University
John W. Tukey, Princeton University

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The Dryden Press

31 West 54 St., New York 19

Tuesday

10:00 A.M.
PALMER HOUSE
Room 9
(3rd Floor)

Sampling Inspection in Public Assistance
Joint Session: ASA, SWRG

Chairman: David G. French, University of Michigan
Papers: APPLICABILITY OF SAMPLING INSPECTION
TECHNIQUES IN TESTING THE QUALITY OF
THE JOB OF THE PUBLIC ASSISTANCE VISITOR
Walter M. Perkins, Social Security Administration

Discussion: Myer Dwass, Northwestern University
William E. Gordon, Washington University
Willis M. Oosterhof, State Department of
Public Welfare, Michigan
Malcolm B. Stinson, University of Minnesota

10:00 A.M.
PALMER HOUSE
Room 17
(Club Floor)

Statistical Techniques in Management
American Statistical Association

Chairman: Holbrook Working, Stanford University
Papers: MANAGEMENT'S AWAKENING TO THE VALUE
OF STATISTICS

E. H. MacNiece, Johnson and Johnson
USE OF STATISTICAL TECHNIQUES IN THE
ACCOUNTING DEPARTMENT OF A LARGE FIRM
Donald Livingston, Monsanto Chemical Company

STATISTICAL TECHNIQUES AS A NATIONAL
RESOURCE
W. Edwards Deming, Bureau of the Budget
and New York University

10:00 A.M.
PALMER HOUSE
Room 18
(Club Floor)

**Discussion of Congressional House Committee
Report of the Investigation of the Federal
Crop Reporting Service**
Joint Session: ASA; AFEA

Chairman: Charles F. Sarle, National Analysts
Papers: SUMMARY OF HOUSE COMMITTEE REPORT
John J. Heimbarger, Counsel, House Agricultural Committee

FORECASTING AND ESTIMATING THE COTTON
CROP
Roger Wallace, Journal of Commerce
NEEDED IMPROVEMENTS IN ESTIMATING THE
CORN CROP

Lauren Soth, Des Moines Register
EVALUATION OF FORECAST OF THE WHEAT
CROP
John D. Baker, Longstreet, Abbott Company

Tuesday

Discussions: Morris Hansen, Bureau of the Census
Ivan Lee, University of California

10:00 A.M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Contributed Papers III
Institute of Mathematical Statistics

Chairman: C. I. Bliss, Connecticut Agricultural Experiment Station

Papers: (24) ESTIMATE OF THE INTERVAL RATE FOR ACTUARIAL CALCULATION

J. Berkson, Mayo Clinic

(25) SIMULTANEOUS CONFIDENCE INTERVAL ESTIMATION

R. C. Bose and S. N. Roy, University of North Carolina

(26) ON A SET OF SIMULTANEOUS CONFIDENCE INTERVAL STATEMENTS IN MULTIVARIATE ANALYSIS OF VARIANCE

S. N. Roy and R. C. Bose, University of North Carolina

(27) ON A RELEVANT SET OF SIMULTANEOUS CONFIDENCE INTERVAL STATEMENTS IN DISCRIMINANT ANALYSIS (By title)

S. N. Roy and R. C. Bose, University of North Carolina

(28) THE SEPARATION OF PRODUCT ERROR AND INSPECTION ERROR IN SAMPLING BY ATTRIBUTES

Tuesday

C. C. Craig, University of Michigan

(29) THE RELATION BETWEEN FISHER'S DISCRIMINANT FUNCTION AND WALD'S CLASSIFICATION STATISTIC

H. L. Harter, Wright-Patterson Air Force Base

(30) ON THE DISTRIBUTION OF THE RATIO OF THE i -th OBSERVATION IN AN ORDERED SAMPLE FROM A NORMAL POPULATION TO AN INDEPENDENT ESTIMATE OF THE STANDARD DEVIATION

K. C. S. Pillai and K. V. Ramachandran
University of North Carolina. Introduced by S. N. Roy, University of North Carolina

(31) CYCLIC SOLUTIONS OF SYMMETRICAL GROUP DIVISIBLE DESIGNS

S. S. Shrikhande, University of Kansas

(32) MEASURES OF ASSOCIATION IN CONTINGENCY TABLES (By title)

L. A. Goodman and W. H. Kruskal, University of Chicago

10:00 A.M.
FEDERAL RESERVE BANK
230 South La Salle St.

Tour of Operations

Federal Reserve Bank of Chicago

Discussion with economists of the Bank. Register for tour with personnel of the Chicago Bank at Exhibition Booth 13, CONRAD HILTON Hotel.

10:30 A.M.
FIRST NATIONAL BANK
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Tuesday

12:00 M.
PALMER HOUSE
Room 6
(3rd Floor)

Luncheon; Business Meeting – Committee on
Statistics in Social Sciences
American Statistical Association

12:00 M.
PALMER HOUSE
Crystal Room
(3rd Floor)

Invited Addresses
Institute of Mathematical Statistics

Chairman: L. J. Savage, University of Chicago
STOCHASTIC PROCESSES OCCURRING IN THE
THEORY OF QUEUES AND THEIR ANALYSIS BY
THE METHOD OF THE IMBEDDED MARKOV
CHAIN

David G. Kendall, University of Oxford and
Princeton University

SADDLE-POINT APPROXIMATIONS IN STATISTICS
H. E. Daniels, University of Cambridge and
University of Chicago

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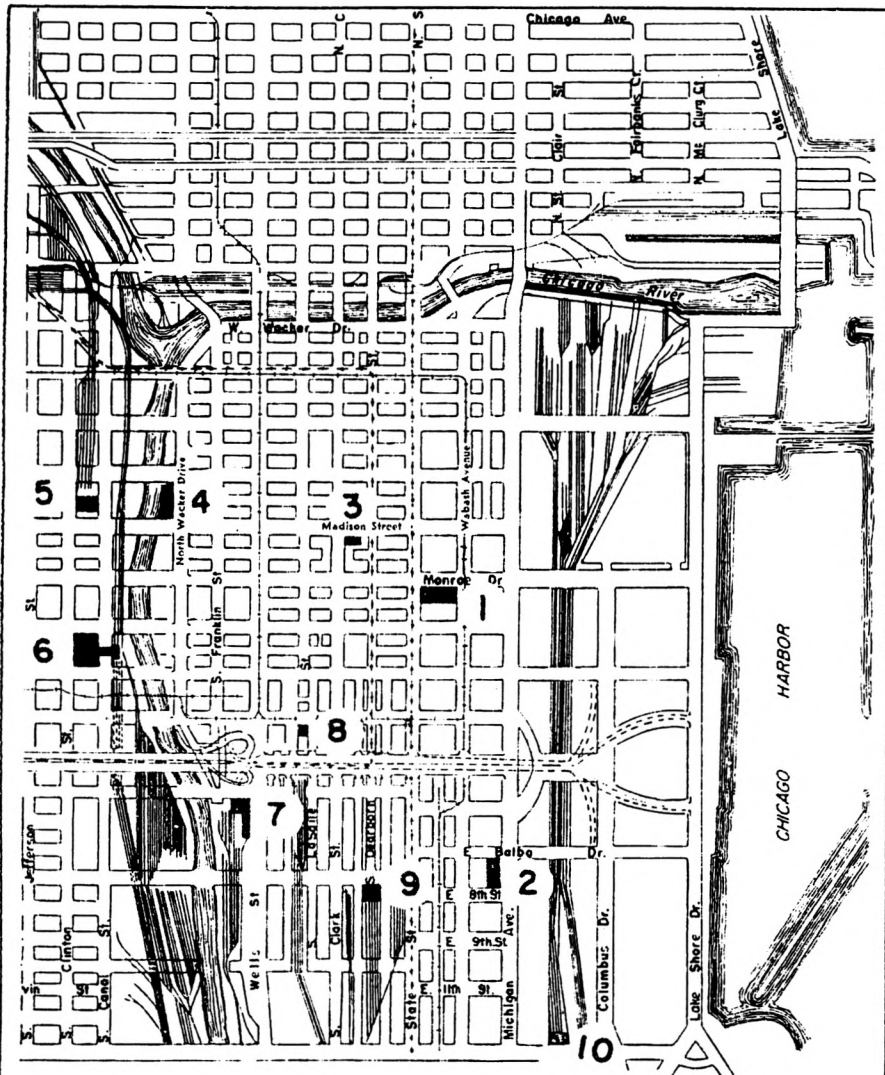
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