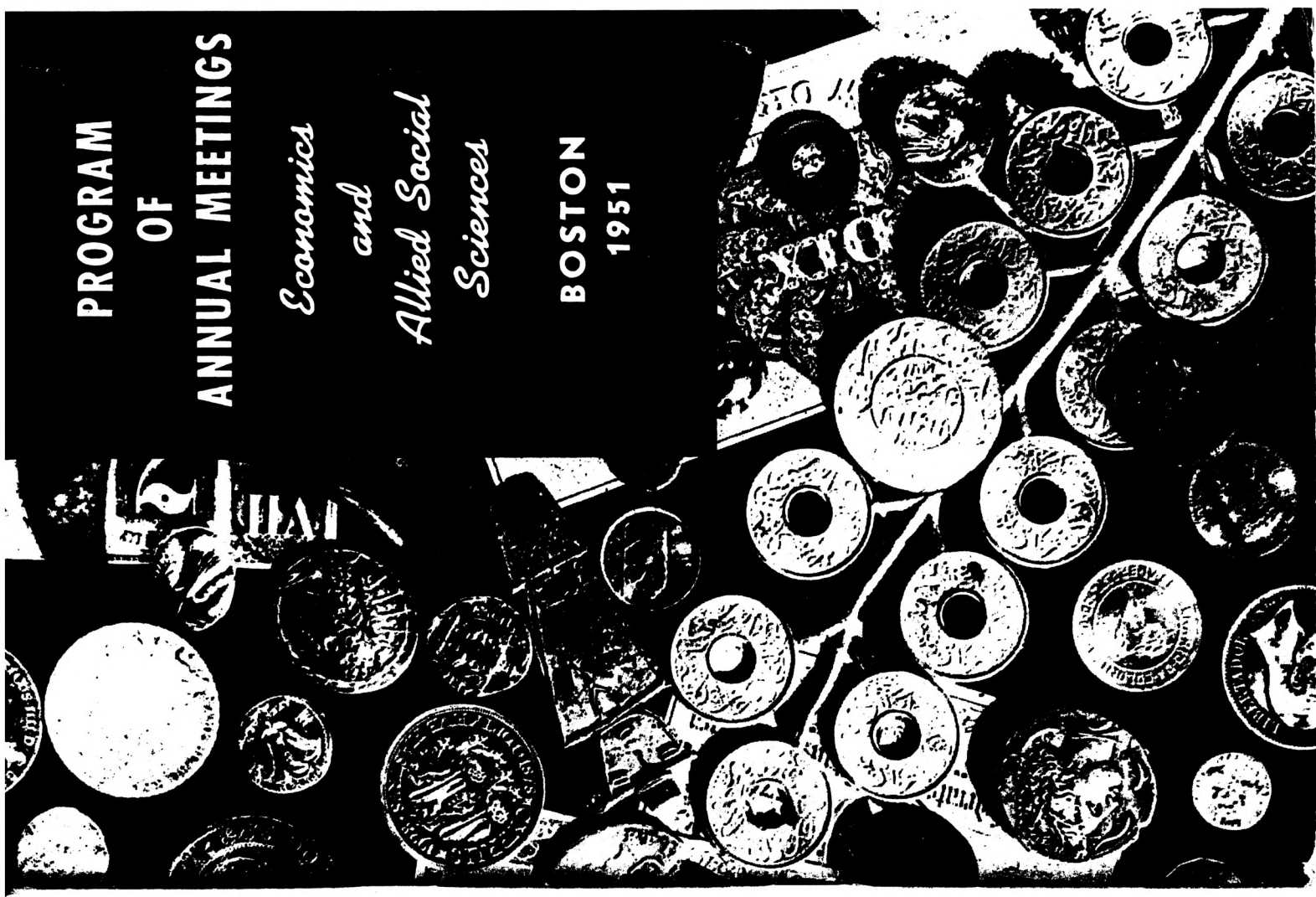


**PROGRAM
OF
ANNUAL MEETINGS**

*Economics
and
Allied Social
Sciences*

**BOSTON
1951**



CONVENING ASSOCIATIONS

AMERICAN ECONOMIC ASSOCIATION
AMERICAN STATISTICAL ASSOCIATION
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Holding Joint Meetings With

American Farm Economics Association
Population Association of America
Biometrics Society
Boston Security Analysts Society
American Society for Quality Control
Rural Sociological Society
Social Work Research Group
American Sociological Society
Society of Actuaries
Economic History Association
American Public Health Association

GENERAL INFORMATION

This is a joint program containing the schedule of meetings for the Allied Social Science Associations meeting in Boston from Wednesday, December 26, through Saturday, December 29. Events of special interest to particular groups are listed separately on pages 2-3.

Associations participating in joint sessions are designated by abbreviation, and the key to these abbreviations is on page 3.

Registration

The fee charged for registration by all participating associations is \$2.00, except for the American Marketing Association. Registration entitles members to attend sessions sponsored by all participating associations. Full-time students are invited to attend meetings free of charge but are requested to register using student registration forms.

Registration for the various associations will commence on Wednesday, December 26, at the following hotels.

Statler: American Economic Association
American Finance Association
Catholic Economic Association
American Association of University Teachers of Insurance

Copley-Plaza: American Statistical Association
Institute of Mathematical Statistics
Econometric Society

Kenmore: American Marketing Association

Somerset: Industrial Relations Research Association

Information concerning registrants, meetings, and other matters may be obtained at the information tables or at the various registration desks. The headquarters of the Joint Committee on Local Arrangements is in the Hancock Room of the Statler.

The Employment Register

An employment register has been set up on the mezzanine of the Statler. This is for the use of persons seeking personnel or employment in economics, statistics, or related fields. Application blanks and vacancy forms will be available at this desk. Lists of vacancies and of applicants will be made available to prospective employees and employers. Parlor F at the Statler is available as an employment conference room during most of the Convention hours.

Book Exhibits and Advertisements

At the Statler, book publishers' exhibits are located in the Foyer of the Ballroom on the Mezzanine. At the Kenmore, exhibits of publishers and related firms are in the lower Lobby and Wedgewood Room.

Lists of exhibitors and of advertisers in the program appear in the last section of the program.

Press Room

A press headquarters has been established in Parlor E at the Statler. Summaries of papers and the manuscripts should be taken directly to that room. All such summaries and manuscripts should be properly identified as to time and title of session, name of author, etc. At the Kenmore, Somerset, and Copley-Plaza hotels, papers may be left at the information desks for rapid transmission by messenger to press headquarters.

SPECIAL EVENTS

Listed below are a number of meetings which are of interest to particular groups but are not included in the body of the program. The list is not necessarily complete. It contains all such events made known to the Local Arrangements Committee. Consult the information desks or committee headquarters for further details.

The American Association of Collegiate Schools of Business will hold meetings Dec. 27 through Dec. 29 on the 4th floor of the Statler.

WEDNESDAY, DECEMBER 26

American Economic Association, Executive Committee Meeting, Statler, Parlor D, 2:30 P.M.

THURSDAY, DECEMBER 27

Princeton Dinner, University Club (40 Trinity Place), 6:15 P.M.

American Finance Association, Executive Dinner, Statler, Parlor F, 6:30 P.M.

FRIDAY, DECEMBER 28

All Associations:

Breakfast meeting, Statler, Parlor C, 8:00 A.M. Topic: COLLEGE RETIREMENT EQUITIES FUND PROPOSALS. Speaker: William C. Greenough, Teachers Insurance and Annuity Association. (Reservations \$2.00, at Information Desk by 6:00 P.M., Thursday, December 27.)

Metropolitan Economic Association, New York, Statler, Parlor F, 4:00 P.M.

International Institute of Public Finance, Statler, Parlor D, 4:00 P.M.

All Associations:

Boston Pops Concert — 8:30 P.M. — Statler Ballroom. Tickets should be obtained from the registration desk by Thursday noon. Price \$1.00.

SATURDAY, DECEMBER 29

Biometrics Society, Annual Business Meeting, Copley-Plaza, Room 131, 8:30-9:20 A.M.

American Economic Association, Executive Committee Meeting, Statler, Parlor D, 10 A.M.

TOURS

Harvard Computation Laboratory

Description: A conducted visit to the Computation Laboratory, including a description of the electronic computer.

Time: At 9:30 and 10:30 A.M. Friday, December 28.

Place: Meet at Information Desk, Copley-Plaza. Please register in advance, because each tour is limited to 20 persons.

Federal Reserve Bank of Boston

Description: Conducted tour of money, check clearance, money order, and other sections of the bank.

Time: At 10:00 A.M. and 2:00 P.M. on Thursday, Dec. 27, and Friday, Dec. 28.

Place: Meet at Reception Desk, Main Floor, 30 Pearl Street.

John Hancock Mutual Life Insurance Company

Description: Conducted tour of the home office building, including the Observation Tower.

Time: At 2:00 P.M. Thursday, Dec. 27, and 10:00 A.M. Friday, Dec. 28.

Place: Lobby, 200 Berkeley Street

Liberty Mutual Insurance Companies

Description: A tour of the Rehabilitation Center for handicapped workers.

Time: At 10:00 A.M. and 2:00 P.M. on Thursday, Dec. 27, and Friday, Dec. 28.

Place: Meet at Information Desk, Copley-Plaza Hotel.

Description: A tour of the Tabulating Installation.

Time: At 3:30 P.M. Thursday, Dec. 27, and Friday, Dec. 28.

Place: Meet at Information Desk, Copley-Plaza Hotel.

Description: A tour of the Research Department where Dr. Henry D. Locke, Vice-President, will discuss the operation of this department.

Time: At 4:00 P.M. Thursday, Dec. 27, and Friday, Dec. 28.

Place: Meet at Information Desk, Copley-Plaza Hotel.

Keystone Custodian Funds

Description: Inspection of the flow of work and the physical facilities used by staff in managing a \$200 million investment fund. Followed by a discussion of fund management and question period.

Time: 10:00 A.M. and 3:00 P.M. on Friday, Dec. 28. (Please register for this tour at the Statler Information Desk by 1:00 P.M. Thursday, Dec. 27.)

Place: Meet at Information Desk at Statler Hotel.

Key to Abbreviations

Names of associations meeting in joint sessions are indicated as follows in the official program.

A.E.A. — American Economic Association

A.F.A. — American Finance Association

A.M.A. — American Marketing Association

A.S.A. — American Statistical Association

E.S. — Econometric Society

I.M.S. — Institute of Mathematical Statistics

I.R.R.A. — Industrial Relations Research Association

A.A.U.T.I. — American Association of University Teachers of Insurance

C.E.A. — Catholic Economic Association

B.S. (ENAR) — Biometrics Society, Eastern North American Region

A.F.E.A. — American Farm Economics Association

P.A.A. — Population Association of America

B.S.A.S. — Boston Security Analysts Society

A.S.Q.C. (NER) — American Society for Quality Control, New England Region

R.S.S. — Rural Sociological Society

S.W.R.G. — Social Work Research Group

A.S.S. — American Sociological Society

S.A. — Society of Actuaries

E.H.A. — Economic History Association

A.P.H.A. (SS) — American Public Health Association (Statistics Section)

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SUMMARY OF WEDNESDAY MEETINGS

12:00 Noon

Luncheon Meeting of the Executive Committee (AEA)

1:20 P.M.

Contributed Papers—I (IMS)

2:30 P.M.

International Trade Theory (AEA)
Agriculture During Rearmament (AEA, AFEA)

Investments (AFA)
Analysis of Economic Development:
Round Table (ES)
Contributed Papers (ES)

3:30 P.M.

Monte Carlo Methods (IMS)

8:00 P.M.

American Foreign Aid Programs (AEA)
Governmental Policy on Business Practices (AEA)
Developments in Input-Output Analysis (ES)
Time Series Analysis (ES)

SCHEDULE OF MEETINGS

Wednesday, December 26, 1951

National Bureau of Economic Research

1819 BROADWAY NEW YORK 23, N.Y.

Current Books

What Happens during Business Cycles: A Progress Report				
		WESLEY C. MITCHELL		
422 pages	48+ tables	7 charts	2 appendices	\$5.00
Inventories and Business Cycles, with Special Reference to Manufacturers' Inventories				
		MOSES ABRAMOVITZ		
672 pages	116+ tables	102 charts	7 appendices	\$6.00
Conference on Business Cycles				
Eleven papers presented and ensuing discussion at Conference on Business Cycles, November 1949				
448 pages				\$6.00
Studies in Income and Wealth, Volume Thirteen				
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Studies in Income and Wealth, Volume Fourteen				
Seven papers on wealth 288 pages				
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Deterioration in the Quality of Foreign Bonds Issued in the United States, 1920-1930				
		ILSE MINTZ		
112 pages	19 tables		9 charts	\$2.00
The Transportation Industries, 1889-1946: A Study of Output, Employment, and Productivity				
		HAROLD BARGER		
304 pages	64 tables	25 charts	9 appendices	\$4.00
Urban Real Estate Markets: Characteristics and Financing				
		ERNEST M. FISHER		
208 pages	54 tables		7 charts	\$3.00
The Nature and Tax Treatment of Capital Gains and Losses				
		LAWRENCE H. SELTZER		
576 pages	98 tables	25 charts	2 appendices	\$7.50
Corporate Income Retention, 1915-43				
		SERGEI P. DOBROVOLSKY		
142 pages	16 tables	27 charts	3 appendices	\$2.50

See Publications at Booth in Exhibition Hall

12:00 Noon
STATLER
Parlor F

Luncheon Meeting of the Executive Com-
mittee
American Economic Association

1:20-3:20 P.M.
COPLEY-PLAZA
State Suite

Contributed Papers—I
Institute of Mathematical Statistics

Chairman: S. B. Littauer, Columbia University

Papers: TWO RANK ORDER TESTS WHICH ARE MOST
POWERFUL AGAINST SPECIFIC PARAMETRIC
ALTERNATIVES

Milton E. Terry, Jr., Virginia Polytechnic
Institute.

PARTIALLY BALANCED DESIGNS WITH
 $k > \gamma = 3$

R. C. Bose and W. H. Clatworthy, Uni-
versity of North Carolina at Chapel Hill.

SOME OBSERVATIONS ON THE F-TEST IN
ANALYSIS OF VARIANCE

S. N. Roy, University of North Carolina at
Chapel Hill

THE NEYMAN-PEARSON LEMMA FACTOR
FUNCTIONS

L. M. Court, American Power Jet Company

THE PROBABILITY OF A CORRECT RANKING
(PRELIMINARY REPORT)

Robert E. Bechhofer, Columbia University

A NON-PARAMETRIC ANALOGUE BASED
UPON RANKS OF ONE-WAY ANALYSIS OF
VARIANCE

William Kruskal, University of Chicago

A SERIES OF GROUP DIVISIBLE DESIGNS
FOR TWO-WAY ELIMINATION OF HETERO-
GENEITY

S. S. Shrinkhande, University of Kansas

A TEST OF THE UNIFORMITY OF THE
CIRCULAR DISTRIBUTION (PRELIMINARY
REPORT)

J. Arthur Greenwood, Manhattan Life In-
surance Company and David Durand,
National Bureau of Economic Research

A METHOD FOR LIMIT THEOREMS IN MARKOV CHAINS

T. E. Harris, The RAND Corporation

ON TESTS OF CERTAIN HYPOTHESES ABOUT MULTIVARIATE NORMAL POPULATIONS. (BY TITLE).

S. N. Roy, University of North Carolina at Chapel Hill.

AN INEQUALITY FOR ORTHOGONAL ARRAYS OF STRENGTH 2. (BY TITLE)

S. S. Shrinkhande, University of Kansas

Papers: IMPACT OF BUSINESS CONDITIONS ON INVESTMENT POLICIES

Harold X. Schreder, Distributors Group, Inc.

INVESTMENT PSYCHOLOGY SINCE KOREA

Douglas H. Bellemore, Boston University

SHORT- AND LONG-TERM CAPITAL REQUIREMENTS

Elmer C. Bratt, Lehigh University

Discussion: Jacob O. Kamm, Baldwin-Wallace College
George L. Leffler, Pennsylvania State College

2:30 P.M.
STATLER
Ballroom

International Trade Theory
American Economic Association

Chairman: R. B. Bryce, Department of Finance, Ottawa, Canada

Papers: THE PRESENT STATE OF THE THEORY OF INTERNATIONAL VALUES

Jacob Viner, Princeton University

HAS THE MODERN THEORY OF ECONOMIC TRENDS CONTRIBUTED TO THE IMPROVEMENT OF INTERNATIONAL ECONOMIC RELATIONS?

Arthur Smithies, Harvard University

Discussion: G. A. Elliott, University of Toronto
J. J. Polak, International Monetary Fund

2:30 P.M.
STATLER
4th Floor

Analysis of Economic Development: Round Table

Econometric Society

Chairman: Wassily Leontief, Harvard University

Paper: ANALYSIS OF ECONOMIC DEVELOPMENT

James S. Duesenberry, Harvard University

Discussion: J. D. Black, Harvard University
K. Davis, Columbia University
Evsey Domar, Johns Hopkins University
W. Hoffmann, Germany
N. Rosenstein-Rodan, International Bank

2:30 P.M.
STATLER
Georgian Room

Agriculture During Rearmament
Joint Session: A.E.A., A.F.E.A.

Chairman: Theodore W. Schultz, University of Chicago

Papers: APPRAISING THE DEMAND FOR AMERICAN AGRICULTURAL OUTPUT

Elmer J. Working, University of Illinois

AMERICAN AGRICULTURAL POLICY DURING REARMAMENT

Karl Brandt, Food Research Institute

Discussion: William H. Nicholls, Vanderbilt University
Kenneth H. Parsons, University of Wisconsin

2:30 P.M.
STATLER
Parlor C

Contributed Papers
Econometric Society

Chairman: John Chipman, Harvard University

Papers: RELATION OF LABOR REQUIREMENTS TO OUTPUT

D. Suits, University of Michigan

THEORIES OF LOCATION AND TRADE, INTERNATIONAL AND INTERREGIONAL

W. Isard and M. T. Peck, Harvard University

Discussion: General Discussion from the Floor

2:30 P.M.
STATLER
Parlor A

Investments
American Finance Association

Chairman: Wilford J. Eiteman, University of Michigan

3:30-5:30 P.M.
COPLEY-PLAZA
State Suite

Monte Carlo Methods
Institute of Mathematical Statistics

Chairman: Paul S. Dwyer, University of Michigan

Papers: SOME EXPERIMENTS ON MONTE CARLO METHODS

John Todd, National Bureau of Standards

Wednesday

EMPIRICAL SAMPLING DISTRIBUTIONS
Dan Teichroew, University of North Carolina

Discussion: R. L. Anderson, University of North Carolina
William Feller, Princeton University

8:00 P.M.
STATLER
Ballroom

American Foreign Aid Programs
American Economic Association

Chairman: Gottfried Haberler, Harvard University

Papers: EUROPEAN RECOVERY AND THE PROBLEMS
AHEAD

Richard M. Bissell, Jr., Deputy Director,
Mutual Security Agency; and (on leave)
Massachusetts Institute of Technology

RAW MATERIALS, REARMAMENT, AND ECO-
NOMIC DEVELOPMENT

Edward S. Mason, Harvard University

Discussion: Don D. Humphrey, Duke University
Walter S. Salant, Council of Economic Advisers

8:00 P.M.
STATLER
Georgian Room

Governmental Policy on Business Practices
American Economic Association

Chairman: Theodore J. Krepes, Stanford University

Papers: ANTI-TRUST POLICY DURING REARMAMENT
Corwin D. Edwards, Federal Trade Com-
mission

GOVERNMENT AID TO BUSINESS EXPANSION
Edward C. Welsh, Reconstruction Finance
Corporation

Discussion: Melvin de Chazeau, Cornell University
Kermit Gordon, Williams College

8:00 P.M.
STATLER
4th Floor

Developments in Input-Output Analysis
Econometric Society

Chairman: Milton Friedman, University of Chicago

Papers: THE 1947 INPUT-OUTPUT TABLE

D. Evans, M. Hoffenberg, U. S. Bureau of
Labor Statistics

A DYNAMIC MODEL

J. I. Holley and G. Dantzig, U. S. Depart-
ment of the Air Force

Wednesday

Discussion: John Chipman, Harvard University
B. Klein, Council of Economic Advisers
W. A. Wallis, University of Chicago

8:00 P.M.
COPLEY-PLAZA
State Suite

Time Series Analysis
Econometric Society

Chairman: Harold M. Somers, University of Buffalo

Papers: ECONOMIC TIME SERIES AND THE TESTING
OF HYPOTHESES

G. Orcutt, Harvard University

AUTOCORRELATION OF THE DISTURBANCES
IN ECONOMIC BEHAVIOR EQUATIONS

J. Gurland, Cowles Commission

Discussion: N. Georgescu-Roegen, Vanderbilt University
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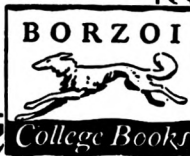
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SUMMARY OF THURSDAY MEETINGS

9:15 A.M.	General Session (AMA)	12:00 Noon	Luncheon: Meeting of Outgoing Board of Directors (ASA) Luncheon: Investing in Common Stocks (ASA, BSAS)	3:30 P.M.	Price-Wage Measures and Controls (ASA) Population Projections for the Decade Ahead (ASA) Progress Report—Recent Changes in Statistics Courses and Curricula (ASA) The Evaluation of Diagnostic Procedures (ASA, BS) The Spectrum View of the Analysis of Time Series (IMS) Concurrent Panels: Digest and Review of Marketing Literature (AMA) Teachers Panel Session (AMA)
9:30 A.M.	Economic Theory and Public Policy (AEA) Economic Problems of Military Mobilization (AEA) Regional Economics: Round Table (AEA, ES) Statistics in the Administration of Government Controls (ASA) Productivity at the National Level (ASA) Contributed Papers (ASA, BS) General Social Statistics (ASA) Public Health Statistics: Approaches to the Definition of Public Health Problems (ASA, APHA) Problems of Identifiability (ASA, ES, IMS) Contributed Papers II (IMS)	12:30 P.M.	Luncheon and General Session (AMA)	4:30 P.M.	Business Meeting (AFA)
10:00 A.M.	Practical Limitations on the Federal Net Income Tax (AFA)	1:20 P.M.	Experimental Design in Industry (ASA, ASQC) Migration (ASA, PAA) Statistical Problems in Animal Experimentation (ASA, BS) Current Statistical Problems in Agriculture (ASA, AFEA) Measurement of Expectations: Round Table (ES) Statistical Models in Learning Theory (IMS)	5:40 P.M.	1951 Council Meeting
10:30 A.M.	Teachers Panel Session (AMA)	2:30 P.M.	Inflation Control in the United States (AEA) Public Utilities, Transportation, and Spatial Organization (AEA) Issues in Methodology (AEA, ES) General Session (AMA) Teachers Panel Session (AMA) Impact of Pension Funding on the American Economy (AFA, AAUW)	6:30 P.M.	Dinner and General Session (AMA) Annual Dinner of Officers, Advisory Committee and Editorial Board (AFA)
				7:00 P.M.	Dinner Meeting, Presidential Address, and Business Meeting (ASA)
				8:30 P.M.	Presidential Address (AEA)

**A CHECK LIST OF IRWIN
TEXTS IN MARKETING**

SALES MANAGEMENT

Policies and Procedures

By D. M. Phelps, University of Michigan

SALESMANSHIP

Principles and Methods

By C. A. Pederson, Stanford University, and
M. D. Wright, San Jose State College

WRITING FOR BUSINESS

Selected Articles on Business Communication

By C. W. Wilkinson, Michigan State College,
J. H. Menning, University of Alabama, and
C. R. Anderson, University of Illinois

MARKETING

Principles and Methods

By C. F. Phillips, Bates College, and D. J.
Duncan, University of California

MARKETING BY MANUFACTURERS

Revised Edition

By C. F. Phillips, Bates College

THEORY IN MARKETING

By Reavis Cox, University of Pennsylvania,
and Wroe Alderson, Alderson & Sessions, Inc.

PLANNING THE PRODUCT

By D. M. Phelps, University of Michigan

RETAILING

Principles and Methods—Third Edition

By D. J. Duncan, University of California,
and C. F. Phillips, Bates College

PROCUREMENT

Principles and Cases

By Howard T. Lewis, Harvard University

ADVERTISING

Theory and Practice—Third Edition

By Charles H. Sandage, University of Illinois

ADVERTISING

Text and Cases

By Neil H. Borden, Harvard University

**THE ECONOMIC EFFECTS OF
ADVERTISING**

By Neil H. Borden, Harvard University

ADVERTISING IN OUR ECONOMY

By Neil H. Borden, Harvard University

RICHARD D. IRWIN, INC.

**VISIT
OUR
EXHIBIT**

SCHEDULE OF MEETINGS

Thursday, December 27, 1951

**9:15 A.M.
KENMORE
Crystal Room**

General Session

American Marketing Association

Chairman: Edward C. Bursk, Editor, *Harvard Business Review*

Topic: IS MARKETING EFFECTIVENESS SLIPPING?

AS THE RETAILER SEES IT:

William Applebaum, Stop & Shop, Inc.,
Boston

AS THE MANUFACTURER SEES IT:

Lawrence F. Whittemore, President, Brown
Company, Berlin, N. H., and Boston.

MARKETING EFFECTIVENESS AND THE
GENERAL BUSINESS OUTLOOK

Malcolm P. McNair, Harvard Graduate
School of Business Administration

**9:30 A.M.
STATLER
Ballroom**

Economic Theory and Public Policy

American Economic Association

Chairman: John M. Clark, Columbia University

Papers: THE FUTURE OF ECONOMIC LIBERALISM
Overton H. Taylor, Harvard University

AN HISTORIAN'S PERSPECTIVE ON MODERN
ECONOMIC THEORY

W. W. Rostow, Massachusetts Institute of
Technology

Discussion: Vincent W. Bladen, University of Toronto
Paul T. Homan, University of California at Los
Angeles
W. A. Mackintosh, Queen's University

**9:30 A.M.
STATLER
Georgian Room**

Economic Problems of Military Mobilization

American Economic Association

Chairman: Donald H. Wallace, Princeton University

Papers: THE PLANNING OF MILITARY REQUIRE-
MENTS

Col. George A. Lincoln, United States
Military Academy

PROCUREMENT POLICIES—WORLD WAR II AND TODAY

John Perry Miller, Yale University

Discussion: Harry E. Howell, New York City
J. Philip Wernette, University of Michigan

9:30 A.M.
STATLER
Parlors A and B

Regional Economics: Round Table

Joint Session: A.E.A., E.S.

Chairman: Calvin B. Hoover, Duke University

Paper: A DISCUSSION OF THE SPATIAL ASPECTS OF THE STRUCTURE AND FUNCTIONING OF AN ECONOMIC SYSTEM

Rutledge Vining, University of Virginia

Discussion: Edgar Dunn, University of Florida
Edgar M. Hoover, Council of Economic Advisers
Stefan Robock, Tennessee Valley Authority
Harry S. Schwartz, Federal Reserve Bank of San Francisco
Nathaniel Wollman, University of New Mexico

9:30-11:30 A.M.
COPLEY-PLAZA
Foyer

Statistics in the Administration of Government Controls

American Statistical Association

Chairman: Lester S. Kellogg, Deere & Company

Papers: THE GOVERNMENT'S STATISTICAL PROGRAM UNDER EMERGENCY CONDITIONS

Donald C. Riley, Division of Statistical Standards, Bureau of the Budget

GOVERNMENT STATISTICAL REQUESTS UNDER THE DEFENSE PROGRAM

Theodore E. Veldfort, Manager, Copper & Brass Research Association, New York

Discussion: Adolph G. Abramson, SKF Industries
Earle Constantine, National Association of Hosiery Manufacturers

9:30-11:30 A.M.
COPLEY-PLAZA
Oval Room

Productivity at the National Level

American Statistical Association

Chairman: Solomon Fabricant, New York University

Papers: PRODUCTIVITY IN THE SOVIET UNION

Irving H. Siegel, 20th Century Fund, New York

PRODUCTIVITY IN PUERTO RICO

Simon Rottenberg, University of Puerto Rico

INTERNATIONAL COMPARISONS OF REAL PER CAPITA INCOME

J. B. D. Derksen, United Nations Statistical Office

Discussion: Henry G. Aubrey, New School for Social Research
Alexander Gerschenkron, Harvard University

9:30-11:30 A.M.
COPLEY-PLAZA
Copley Club

Contributed Papers

Joint Session: A.S.A., B.S. (ENAR)

Chairman: W. J. Youden, National Bureau of Standards

Papers: TYPE OF RETURNS FROM WAVES OF MAIL QUESTIONNAIRES IN TWO NATIONAL MAGAZINE READERSHIP SURVEYS

Walter T. Federer, Cornell University, and Robert K. McMillan, National Analysts, Inc.

THE MULTIPLE SAMPLING OF ATTRIBUTES

Douglas S. Robson, Cornell University, and A. J. King, National Analysts, Inc.

ANALYSIS OF PARTIALLY BALANCED INCOMPLETE BLOCK DESIGNS ILLUSTRATED ON THE SIMPLE RECTANGULAR LATTICE

K. R. Nair, Forest Research Institute, India

LATINIZED RECTANGULAR LATTICES

Boyd Harshbarger, Virginia Polytechnic Institute

9:30-11:30 A.M.
COPLEY-PLAZA
Parlor B

General Social Statistics

American Statistical Association

Chairman: Harry Alpert, Division of Statistical Standards, Bureau of the Budget

Papers: PROBLEMS AND METHODS IN FEDERAL STATISTICS ON EDUCATION

Herbert S. Conrad, U. S. Office of Education

THE CENTRAL REGISTER AS A DEVICE FOR PRODUCING BETTER STATISTICS AS THE BASIS FOR UNDERSTANDING AND TREATING JUVENILE DELINQUENCY

Sophia M. Robison, New York School of Social Work

Thursday

THE NATIONAL PRISONER STATISTICS PROGRAM

Henry Coe Lanpher and James C. McCafferty, Bureau of Prisons, Department of Justice

Discussion: Francis G. Cornell, University of Illinois
Albert Morris, Boston University
Edward E. Schwartz, U. S. Children's Bureau

9:30-11:30 A.M. Public Health Statistics: Approaches to the
COPLEY-PLAZA Definition of Public Health Problems
State Suite *Joint Session: A.S.A., A.P.H.A. (S.S.)*

Chairman: Paul M. Densen, University of Pittsburgh

Papers: WHAT IS A PUBLIC HEALTH PROBLEM
Morton Levin, New York State Department of Health

THE FAMILY AS A UNIT IN PUBLIC HEALTH RESEARCH

Margaret Merrell, Johns Hopkins University

THE PROBLEM OF DEFINING A MEDICAL SERVICE AREA

Isidore Altman, U. S. Public Health Service

9:30-11:30 A.M. Problems of Identifiability
COPLEY-PLAZA *Joint Session: A.S.A., E.S., I.M.S.*
Sheraton Room

Chairman: Paul Samuelson, Massachusetts Institute of Technology

Papers: IDENTIFIABILITY AND CONSISTENT ESTIMABILITY OF STRUCTURAL RELATIONS
Jerzy Neyman, University of California at Berkeley

SYSTEMS OF NON-LINEAR STOCHASTIC DIFFERENCE EQUATIONS

Herman Rubin, Stanford University

NECESSARY AND SUFFICIENT CONDITIONS FOR CONSISTENT ESTIMABILITY

Joseph L. Hodges, Jr., University of Chicago

Discussion: L. Hurwicz, University of Illinois
Terry A. Jeeves, University of California at Berkeley
C. M. Stein, University of Chicago

Thursday

9:30-11:30 A.M.
COPLEY-PLAZA
Parlor C

Contributed Papers II

Institute of Mathematical Statistics

Chairman: To be announced

Papers: THE DISTRIBUTION OF THE RANGE IN SAMPLES FROM A COMPOUND NORMAL POPULATION

Kenneth H. Kramer, Youngstown Sheet and Tubing Company

ON THE OPERATING CHARACTERISTICS OF CERTAIN QUALITY CONTROL TESTS

John E. Walsh, U. S. Naval Ordnance Station, Pasadena, California

OPERATING CHARACTERISTICS OF THE CONTROL CHART FOR SAMPLE MEANS

Edgar P. King, Carnegie Institute of Technology

JOINT SAMPLING DISTRIBUTIONS OF THE MEANS AND STANDARD DEVIATION FOR FREQUENCY FUNCTIONS OF THE SECOND KIND

Melvin D. Springer, U. S. Naval Ordnance, Indianapolis, Indiana

STATISTICAL THEORY OF DROUGHTS

E. J. Gumbel, Consultant, Stanford University

SOME THEOREMS RELEVANT TO LIFE TESTING

Milton Sobel and Benjamin Epstein, Wayne University

SOME TESTS BASED ON THE FIRST γ ORDERED OBSERVATIONS DRAWN FROM AN EXPONENTIAL DISTRIBUTION

Benjamin Epstein and Milton Sobel, Wayne University

A METHOD OF REDUCING THE TIME REQUIRED TO COMPLETE CERTAIN FATIGUE TESTS

Leonard G. Johnson, Research Laboratories Division, General Motors Corporation, Detroit, Michigan

ON THE MULTIVARIATE POISSON DISTRIBUTION

Henry Teicher, Purdue University.

FORMULAS FOR APPROXIMATING THE HYPERGEOMETRIC AND BINOMIAL BY THE POISSON DISTRIBUTION

I. W. Burr, Purdue University

Thursday

DISTRIBUTION OF RANGES FROM AN
ARBITRARY DISCRETE UNIVERSE (BY TITLE)
I. W. Burr, Purdue University

10:00 A.M.
STATLER
Parlor C

Practical Limitations on the Federal Net
Income Tax

American Finance Association

Chairman: Harold M. Groves, University of Wisconsin

Papers: PRACTICAL LIMITATIONS TO THE NET IN-
COME TAX—IN GENERAL

Walter W. Heller, University of Minnesota
B. U. Ratchford, Duke University

PRACTICAL LIMITATIONS TO THE NET IN-
COME TAX—CAPITAL GAINS

George T. Break, University of California

Discussion: Laszlo Ecker-Racz, Treasury Department
Martin R. Gainsbrugh, National Industrial Con-
ference Board

Lawrence W. Seltzer, Wayne University

10:30 A.M.
KENMORE
Silver Room

Teachers Panel Session

American Marketing Association

Chairman: Richard M. Clewett, Northwestern University

Topic: GENERAL MARKETING

Panel Participants: To be announced

12:00 Noon
COPLEY-PLAZA
Room 131

Luncheon: Meeting of Outgoing Board of
Directors

American Statistical Association

12:00-3:20 P.M.
COPLEY-PLAZA
Oval Room

Luncheon: Investing in Common Stocks

Joint Session: A.S.A., B.S.A.S.

Chairman: Robert J. Wilkes, Scudder, Stevens & Clark

Papers: THE PRINCIPLES OF FORMULA INVESTING

Robert A. Warren, Keystone Custodian
Funds, Inc.

COMMON STOCKS AND LIFE INSURANCE
COMPANIES

Sherwin C. Badger, New England Mutual
Life Insurance Company

Thursday

12:30 P.M.
KENMORE
Crystal Room

Luncheon and General Session
American Marketing Association

Chairman: John Bidwell, President, New England Chapter,
A.M.A. and Manager, Marketing Research
Division, Dewey & Almy Chemical Company,
Cambridge, Massachusetts

Topic: HOW LONG WILL THE FREE MARKET BE
FREE?

Emerson P. Schmidt, Chief Economist,
U. S. Chamber of Commerce, Washington,
D. C.

1:20-3:20 P.M.
COPLEY-PLAZA
Parlor B

Experimental Design in Industry

Joint Session: A.S.A., A.S.Q.C. (NER)

Chairman: Dorian Shanin, Hamilton Standard Division,
United Aircraft Corporation

Papers: AN INDUSTRIAL EXPERIMENT IN PAPER
SATURATION

Warren Purcell, Brown Company

USE OF STATISTICAL PRINCIPLES IN FACTORY
TROUBLE SHOOTING

Leonard A. Seder, Gillette Safety Razor

Discussion: John Riordan, Department of the Air Force
John G. Rutherford, The Glen L. Martin
Company

Louis G. Young, Consultant

1:20-3:20 P.M.
COPLEY-PLAZA
Sheraton Room

Migration

Joint Session: A.S.A., P.A.A.

Chairman: Henry S. Shryock, Jr., U.S. Bureau of the Census

Papers: INTRASTATE MIGRATION FOR WASHINGTON,
1935-40

Calvin F. Schmid, University of Washington,
and M. J. Griswold, Wayne University

INTRASTATE MIGRATION IN THE TENNESSEE
VALLEY AREA, 1935-40

John Folger, Maxwell Air Force Base

INTERSTATE MIGRATION IN NEW ENGLAND,
1935-40

R. G. Burnight, University of Connecticut



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EXTENDS GREETINGS

TO TEACHERS

OF ECONOMICS AND

BUSINESS ADMINISTRATION

AND CORDIALLY INVITES THEM

TO VISIT THE EXHIBIT

OF HARPER BOOKS

IN THE FOYER OF THE GRAND BALL ROOM

STATLER HOTEL

Thursday

1:20-3:20 P.M.
COPLEY-PLAZA
Copley Club

Statistical Problems in Animal Experimentation

Joint Session: A.S.A., B.S. (ENAR)

Chairman: Earl L. Green, Ohio State University

Papers: SOME STATISTICAL ASPECTS OF RESEARCH USING RADIOACTIVE ISOTOPES AND X-RAYS

A. E. Brandt, Atomic Energy Commission

AN APPLICATION OF FACTOR ANALYSIS TO THE SYSTEMATICS OF THE GENUS KALOTERMES

C. P. Stroud, University of Chicago

BIO-ASSAY WITH THE LATIN SQUARE—THE CHOICE OF AN ERROR TERM

Jerome Cornfield, National Cancer Institute

1:20-3:20 P.M.
COPLEY-PLAZA
Foyer

Current Statistical Problems in Agriculture

Joint Session: A.S.A., A.F.E.A.

Chairman: F. F. Hill, Cornell University

Papers: MEASURING THE SHIFTING STRUCTURE OF AMERICAN AGRICULTURE

Orris V. Wells, Bureau of Agricultural Economics, U. S. Department of Agriculture

A CRITICAL EVALUATION OF AVAILABLE AGRICULTURAL STATISTICS

Ivan M. Lee, Giannini Foundation of Agricultural Economics, University of California

Discussion: Harold G. Halcrow, University of Connecticut
O. C. Stine, 20th Century Fund, New York

1:20 P.M.
COPLEY-PLAZA
Parlor C

Measurement of Expectations: Round Table
Econometric Society

Chairman: Robert Bishop, Massachusetts Institute of Technology

Paper: THE MEASUREMENT OF EXPECTATIONS
F. Modigliani, University of Illinois

Discussion: W. Baumol, Princeton University
G. Katona, University of Michigan
C. Kaysen, Harvard University
A. Kisselgoff, Bank of New York and Fifth Avenue Bank

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Thursday

1:20-3:20 P.M.
COPLEY-PLAZA
State Suite

Statistical Models in Learning Theory
Institute of Mathematical Statistics

Chairman: Harold Gulliksen, Educational Testing Service,
Princeton, New Jersey

Papers: A LINEAR-OPERATOR MODEL FOR LEARNING
Robert R. Bush and Frederick Mosteller,
Harvard University

A STATISTICAL DESCRIPTION FOR VERBAL
LEARNING

George A. Miller and William J. McGill,
Massachusetts Institute of Technology

APPLICATION OF A SET-THEORETICAL MODEL
TO LEARNING PHENOMENA

Cletus J. Burke and W. K. Estes, Indiana
University

Discussion: Leo Goodman, University of Chicago
J. C. R. Licklider, Massachusetts Institute of
Technology
Max A. Woodbury, Princeton University

2:30 P.M.
STATLER
Georgian Room

Inflation Control in the United States
American Economic Association

Chairman: Edwin G. Nourse, Washington, D. C.

Papers: RECENT EXPERIENCE WITH MONETARY-
FISCAL MEASURES

Woodlief Thomas, Federal Reserve Board

REFLECTIONS ON A YEAR OF PRICE CONTROLS

G. Griffith Johnson, Economic Stabilization
Agency

Discussion: Albert G. Hart, Columbia University
R. B. Heflebower, Northwestern University

2:30 P.M.
STATLER
Parlors A and B

Public Utilities, Transportation, and Spatial
Organization
American Economic Association

Chairman: C. Emery Troxel, Wayne University

Papers: CRITERIA FOR THE ESTABLISHMENT OF AN
OPTIMUM TRANSPORTATION SYSTEM

Ralph L. Dewey, Ohio State University

THE OPTIMUM GEOGRAPHIC SIZE OF A
RATEMAKING UNIT FOR ELECTRICITY

William F. Kennedy, Santa Barbara College

Thursday

Discussion: Edmund A. Nightingale, University of Minnesota
Joseph S. Ransmeier, Dartmouth College

2:30 P.M.
STATLER
Ballroom

Issues in Methodology
Joint Session: A.E.A., E.S.

Chairman: Fritz Machlup, Johns Hopkins University

Papers: THE IMPACT ON GENERAL ECONOMICS OF MORE REALISTIC THEORIES OF THE FIRM
K. E. Boulding, University of Michigan

INSTITUTIONALISM AND EMPIRICISM IN ECONOMICS
Frank H. Knight, University of Chicago

ECONOMIC THEORY AND MATHEMATICS—AN APPRAISAL
Paul A. Samuelson, Massachusetts Institute of Technology

Discussion: Allan G. Gruchy, University of Maryland
W. W. Leontief, Harvard University

2:30 P.M.
KENMORE
Crystal Room

General Session (continuation of luncheon session)
American Marketing Association

Topic: TELEVISION TODAY—ITS IMPACT ON PEOPLE AND PRODUCTS (An Industry-Wide Research Presented in Moving Pictures)
Robert W. McFadyen, National Broadcasting Company

2:30 P.M.
KENMORE
Boston Room

Teachers Panel Session
American Marketing Association

Chairman: Leonard J. Bisbing, Marquette University

Topic: MARKET RESEARCH

Panel Participants: To Be Announced

2:30-4:20 P.M.
STATLER
Parlor C

Impact of Pension Funding on the American Economy
Joint Session: A.F.A., A.A.U.T.I.

Chairman: William C. Greenough, Teachers Insurance & Annuity Association

Thursday

Papers: SOURCES OF INCOME FOR THE AGED
John J. Corson, McKinsey & Company

INVESTMENT ASPECTS OF THE ACCUMULATION OF PENSION FUNDS
Roger Murray, Bankers Trust Company

EFFECT ON THE ECONOMY OF CHANNELING SAVINGS THROUGH PENSION FUNDS
Harry Guthmann, Northwestern University

Discussion: Raymond W. Goldsmith, R. W. Goldsmith Associates, Inc.
J. Fred Weston, University of California at Los Angeles

3:30-5:30 P.M.
COPLEY-PLAZA
Sheraton Room

Price-Wage Measures and Controls
American Statistical Association

Chairman: Henry B. Arthur, Swift and Company

Papers: STATISTICS IN PRICE CONTROL
Gardner Ackley, Office of Price Stabilization

WAGE-PRICE RELATIONSHIPS
George Cline Smith, U. S. Chamber of Commerce

Discussion: George W. Brooks, International Brotherhood of Pulp, Sulphite and Paper Mill Workers
J. K. Galbraith, Harvard University

3:30-5:30 P.M.
COPLEY-PLAZA
Parlor B

Population Projections for the Decade Ahead
American Statistical Association

Chairman: Francis E. McIntyre, California Texas Oil Company, Ltd.

Papers: PROJECTING POPULATION FOR SALES FORECASTING
Margaret J. Hagood, U. S. Bureau of Agricultural Economics and Jacob S. Siegel, U. S. Bureau of the Census

THE ROLE OF POPULATION IN ECONOMIC DYNAMICS
Charles F. Roos, Econometric Institute

Discussion: John E. Hodges, Hughes Tool Company and Rice Institute
Richard M. Snyder, E. I. duPont de Nemours and Company

Thursday

3:30-5:30 P.M.
COPLEY-PLAZA
Copley Club

Progress Report—Recent Changes in Statistics Courses and Curricula
American Statistical Association

Chairman: J. E. Morton, Cornell University, on leave as Director, Survey of Statistical Operation, U. S. Bureau of Mines

Papers: DEVELOPMENTS IN EASTERN UNIVERSITIES
Philip J. McCarthy, Cornell University

DEVELOPMENTS IN MID-AMERICAN UNIVERSITIES

Palmer O. Johnson, University of Minnesota

DEVELOPMENTS IN WESTERN UNIVERSITIES

William A. Spurr, Stanford University

Discussion: P. G. Fox, University of Wisconsin
Rutledge Vining, University of Virginia
S. S. Wilks, Princeton University

3:30-5:30 P.M.
COPLEY-PLAZA
Foyer

The Evaluation of Diagnostic Procedures
Joint Session: A.S.A., B.S. (ENAR)

Chairman: John W. Fertig, Columbia University

Papers: DIAGNOSIS IN TUBERCULOSIS
J. Yerushalmy, University of California

DIAGNOSIS IN CANCER

John E. Dunn, National Cancer Institute

DIAGNOSIS IN DIABETES

Hugh T. C. Wilkerson, U. S. Public Health Service

Discussion: Paul Meier, Philadelphia Tuberculosis Association
E. C. Hammond, American Cancer Society
W. F. Taylor, U.S.A.F. School of Aviation Medicine

3:30-5:30 P.M.
COPLEY-PLAZA
State Suite

The Spectrum View of the Analysis of Time Series
Institute of Mathematical Statistics

Chairman: M. A. Girshick, Stanford University

Speaker: John W. Tukey, Bell Telephone Laboratories, Inc.

Discussion: T. W. Anderson, Columbia University
Guy H. Orcutt, Harvard University

Thursday

3:30 P.M.
KENMORE

Concurrent Panels: Digest and Review of Marketing Literature
American Marketing Association

Crystal Room

GOVERNMENT PUBLICATIONS

Chairman: Cyrus S. Kauffman, President, C. S. Kauffman & Associates, Washington, D. C.

Panel Participants: WHAT INFORMATION IS AVAILABLE IN WASHINGTON AND HOW TO GET IT

Roy B. Eastin, Superintendent of Documents, U. S. Government Printing Office

Howard L. Stier, Director, Division of Statistics, National Canners Association

MARKETING USES FOR INPUT-OUTPUT DATA
W. Duane Evans, U.S. Bureau of Labor Statistics

Empire Room

MARKETING RESEARCH LITERATURE

Chairman: Don Hobart, Vice President and Director of Research, Curtis Publishing Company

Panel Participants: MAIN CURRENTS IN MARKETING LITERATURE

Wroe Alderson, President, Alderson & Sessions

THE TEACHER LOOKS AT MARKETING LITERATURE

Wendell R. Smith, State University of Iowa

MARKETING LITERATURE AND MARKETING PROBLEMS

Royal E. Davis, Manager of Sales Research, The Goodyear Tire & Rubber Company

Silver Room

ADVERTISING MANAGEMENT LITERATURE

Chairman: S. R. Bernstein, Editor, *Advertising Age*

Panel Participants: CONSUMER MARKETING
Neil H. Borden, Harvard Graduate School of Business Administration

INDUSTRIAL MARKETING

Willard M. Fox, Director of Market Research, Remington Rand, Inc.

SERVICE AND INSTITUTIONAL MARKETING
Richard M. Clewett, Northwestern University

3:30 P.M.
KENMORE
Green Room

Teachers Panel Session
American Marketing Association

Chairman: Ralph Oakes, Loyola University

Topic: SALES MANAGEMENT

Thursday

Panel Participants: HIGHLIGHTS FROM THE 1950-1951 N.S.E. CURRICULUM SURVEY IN THE FIELD OF DISTRIBUTION

Kenneth Lawyer, Western Reserve University

RESEARCH IN SALES TRAINING

J. S. Schiff, College of the City of New York

CONTENT OF SALES MANAGEMENT COURSES

D. M. Phelps, University of Michigan

Discussion: Discussion from the Floor

4:30 P.M.
STATLER
Parlor C

Business Meeting
American Finance Association

5:40 P.M.
COPLEY-PLAZA
Room 133

1951 Council Meeting
Institute of Mathematical Statistics

6:30 P.M.
KENMORE
Crystal Room

Dinner and General Session
American Marketing Association

Chairman: Allen W. Rucker, President, The Eddy-Rucker-Nickels Company, Cambridge, Massachusetts,

Topic: WHAT TO DO ABOUT PRESERVING THE FREE MARKET?
Floyd A. Harper, The Foundation for Economic Education, Inc., Irvington-on-Hudson, New York

6:30 P.M.
University
Club

Annual Dinner of Officers, Advisory Committee and Editorial Board
American Finance Association

7:00 P.M.
COPLEY-PLAZA
Ballroom

Dinner Meeting, Presidential Address, and Business Meeting
American Statistical Association

Speaker: Lowell J. Reed, Johns Hopkins University

8:30 P.M.
STATLER
Ballroom

Presidential Address
American Economic Association

Chairman: Frank H. Knight, University of Chicago

Speaker: John H. Williams, Harvard University

SUMMARY OF FRIDAY MEETINGS

<p>8:20 A.M. Business Meeting (IMS)</p> <p>8:30 A.M. Business Meeting of the Biometrics Section (ASA) Business Meeting of the Business and Economic Statistics Sections (ASA) Annual Breakfast—Sponsored by ACLU and AIPLU, Inc. (AAUTI)</p> <p>9:15 A.M. General Session (AMA) Teachers Panel Session (AMA)</p> <p>9:30 A.M. Fiscal Theory (AEA) The Theoretical Analysis of Economic Growth (AEA) Wages, Manpower, and Rearmament (AEA) Defense Production Statistics (ASA) Statistical Developments in Business Finance (ASA) The Implication of Sampling Methods to Business and Industrial Statistics (ASA) Application of Statistics in Rural Sociology (ASA, RSS) Vital Statistics: International Statistical Needs in the Study of Man (ASA, BS) Statistical Evaluation of Clinical Data (ASA, BS, APHA) Statistical Inference (IMS) Theory of the Firm: Found Table (ES) Econometric Models of the National Economy (ES)</p> <p>10:00 A.M. Effects of Recent Credit and Debt Management Policies Upon Financial Institutions (AFA) Introducing and Developing Insurance in a Curriculum (AAUTI)</p>	<p>10:30 A.M. Concurrent Panels: Case Histories in Marketing Effectiveness (AMA) Teachers Panel Session (AMA) Evaluation of Recent Research on Employee Attitudes and Morale (IRRA)</p> <p>12:00 Noon Luncheon: Business Meeting, Section on the Training of Statisticians (ASA) Luncheon: The Business Outlook (ASA) Luncheon Meeting (AAUTI)</p> <p>12:30 P.M. Luncheon and General Session (AMA)</p> <p>1:20 P.M. Statistical Aspects of Engineering Measurements (ASA) Round Table: A Desirable Training Program from the Point of View of the Present-Day Employer of Statisticians (ASA) The Application of Statistics in Appraising the Effectiveness of the Income-Maintenance Programs (ASA, SWRG) Sampling in the 1960 Census (ASA, IMS) Forecasting (ES)</p> <p>2:00 P.M. Some Recent Developments in Insurance (AAUTI) American Labor and International Labor Activities (URRA) Dynamics of the Local Labor Market (IRRA)</p> <p>2:30 P.M. Value Theory (AEA) General Factors in Economic Growth in the United States (AEA, ASA)</p>	<p>Recent Developments in United States Monetary Policy (AEA, AFA) Theory of Consumption (ES) General Session (AMA) Teachers Panel Session (AMA)</p> <p>3:30 P.M. Monetary and Credit Statistics (ASA) Intra-Company Statistical Programs (ASA) Contributed Papers (ASA, B.S.) Round Table: Goals for the Study of Mathematics by Social Scientists (ASA, IMS) Census Statistics (ASA, PAA)</p> <p>4:00 P.M. Annual Business Meeting (AAUTI)</p> <p>5:00 P.M. Annual Business Meeting (AEA)</p> <p>5:40 P.M. 1962 Council Meeting (IMS)</p> <p>7:00 P.M. Annual Dinner Meeting (AAUTI)</p> <p>8:30 P.M. Boston Pops Orchestra—Arthur Fiedler Conducting (All Associations)</p> <p>9:00 P.M. Smoker for All Members (IRRA)</p>
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Among the recent
OXFORD PUBLICATIONS
on display in the foyer of the
Grand Ball Room
of the
Hotel Statler

will be the following titles
of interest to economists

Ten Great Economists

By Joseph A. Schumpeter

320 pp. College Edition \$3.25

The Structure of the American Economy

By Wassily W. Leontief

288 pages 1951 \$5.75

The Social Framework of American Economy

By J. R. Hicks, and Albert G. Hart

280 pages 1945 \$3.50

History of Economic Doctrines

By Eduard Heimann

272 pages 1945 \$3.75

OXFORD UNIVERSITY PRESS
114 Fifth Avenue, New York

SCHEDULE OF MEETINGS

Friday, December 28, 1951

8:20-9:20 A.M.
COPLEY-PLAZA
Foyer

Business Meeting
Institute of Mathematical Statistics

8:30-9:20 A.M.
COPLEY-PLAZA
Parlor C

Business Meeting of the Biometrics Section
American Statistical Association

Chairman: John W. Tukey, Princeton University

8:30-9:20 A.M.
COPLEY-PLAZA
Sheraton Room

Business Meeting of the Business and Economic Statistics Section
American Statistical Association

Chairman: Walter E. Hoadley, Jr., Armstrong Cork Company

8:30-9:30 A.M.
BRADFORD
Bradford Roof

Annual Breakfast—Sponsored by American College of Life Underwriters and American Institute for Property and Liability Underwriters, Inc.
American Association of University Teachers of Insurance

9:15 A.M.
KENMORE
Crystal Room

General Session
American Marketing Association

Chairman: Daniel Bloomfield, Director, Boston Conference on Distribution, Boston, Massachusetts

Topic: MARKETING MANAGEMENT: ITS GROWING RESPONSIBILITIES AND OPPORTUNITIES
Robert F. Elder, Marketing Consultant, Boston, Massachusetts

9:15 A.M.
KENMORE
Empire Room

Teachers Panel Session
American Marketing Association

Chairman: Vance Chamberlin, Fenn College

Topic: ADVERTISING

Panel Participants: To Be Announced

Friday

9:30 A.M.
STATLER
Ballroom

Fiscal Theory
American Economic Association

- Chairman:* Roy Blough, Council of Economic Advisers
- Papers:* AN APPRAISAL OF CURRENT FISCAL THEORY
Paul J. Strayer, Princeton University
- THE ANTI-INFLATIONARY IMPLICATIONS OF ALTERNATIVE FORMS OF TAXATION
Richard B. Goode, International Monetary Fund
- Discussion:* Carl S. Shoup, Columbia University
Harold M. Somers, University of Buffalo

9:30 A.M.
STATLER
Parlors A and B

The Theoretical Analysis of Economic Growth
American Economic Association

- Chairman:* Harold A. Innis, University of Toronto
- Papers:* THE THEORETICAL ANALYSIS OF ECONOMIC GROWTH
Evsey D. Domar, Johns Hopkins University
- ECONOMIC GROWTH — ECONOMETRIC MODELS IN RELATION TO THE SOCIAL SETTING
David M. Wright, University of Virginia
- Discussion:* Thomas C. Schelling, Office of the Director of the Mutual Security Agency
Malcolm C. Urquhart, Queen's University

9:30 A.M.
STATLER
Georgian Room

Wages, Manpower, and Rearmament
Joint Session: A.E.A., I.R.R.A.

- Chairman:* J. Douglas Brown, Princeton University
- Papers:* WAGE STABILIZATION
Clark Kerr, University of California at Berkeley
- PROBLEMS IN THE ALLOCATION OF MAN-POWER
William Haber, University of Michigan
- Discussion:* Richard A. Lester, Princeton University
Dale Yoder, University of Minnesota

Friday

9:30-11:30 A.M.
COPLEY-PLAZA
Sheraton Room

Defense Production Statistics
American Statistical Association

- Chairman:* Frank Garfield, Board of Governors of The Federal Reserve System
- Papers:* CAPACITY REQUIREMENTS UNDER PARTIAL MOBILIZATION
Glenn McLaughlin, Defense Production Administration
- PROBLEMS OF MEASUREMENT IN ALLOCATION OF SCARCE RESOURCES
Frederick Cone, Office of Defense Mobilization
- Discussion:* Walter E. Hoadley, Jr., Armstrong Cork Co.
Ben Saurino, Sun Oil Company, Philadelphia, Pennsylvania

9:30-11:30 A.M.
COPLEY-PLAZA
Room 131

Statistical Developments in Business Finance
American Statistical Association

- Chairman:* John Lintner, Harvard Graduate School of Business Administration
- Papers:* A CRITICAL EVALUATION OF RECENT ADDITIONS TO AND NEEDS FOR FINANCIAL STATISTICS COVERING BUSINESS OPERATIONS FROM THE VIEWPOINT OF THE GOVERNMENT ECONOMIST
Lawrence McHugh, U. S. Department of Commerce
- A SECURITY ANALYST APPRAISES FINANCIAL STATISTICS
Lucien O. Hooper, W. E. Hutton & Company, New York
- Discussion:* Eli Shapiro, University of Chicago
Miller Upton, Washington University, St. Louis, Missouri

9:30-11:30 A.M.
COPLEY-PLAZA
Oval Room

The Implication of Sampling Methods to Business and Industrial Statistics
American Statistical Association

- Chairman:* Howard C. Grieves, U.S. Bureau of the Census
- Papers:* SAMPLING TECHNIQUES IN THE CURRENT BUSINESS PROGRAM
Max Bershada, Bureau of the Census

MEASUREMENT OF COVERAGE IN THE 1948 CENSUS OF BUSINESS

Leon Pritzker, Bureau of the Census

THE ANNUAL SURVEY OF MANUFACTURES' SAMPLE

Jack Ogus, Bureau of the Census

Discussion: Robert W. Burgess, Western Electric Company
Howard L. Jones, Illinois Bell Telephone Company

9:30-11:30 A.M. Application of Statistics in Rural Sociology
COPLEY-PLAZA
Copley Club

Joint Session: A.S.A., R.S.S.

Chairman: Margaret Jarman Hagood, Bureau of Agricultural Economics, U. S. Department of Agriculture

Papers: SOME CONSIDERATIONS IN THE USE OF THE RESIDUAL METHOD OF ESTIMATING NET MIGRATION

Jacob S. Siegel, U. S. Bureau of the Census
C. Horace Hamilton, North Carolina State College of Agriculture

HOUSING FACILITIES AND EQUIPMENT OF HIRED FARM WORKERS AND THEIR EMPLOYERS

Barbara B. Reagan, Bureau of Human Nutrition and Home Economics, and Louis J. Ducoff, Bureau of Agricultural Economics, U. S. Department of Agriculture

PROBLEMS IN QUANTITATIVE ANALYSIS OF EFFECT OF TRAINING PRACTICES OF THE PERSONAL ADJUSTMENTS OF RURAL CHILDREN

William H. Sewell, University of Wisconsin

Discussion: John Black, Harvard University
Daniel O. Price, University of North Carolina
Raymond F. Sletto, Ohio State University

9:30-11:30 A.M. Vital Statistics: International Statistical Needs in the Study of Man
COPLEY-PLAZA
Parlor B

Joint Session: A.S.A., B.S. (ENAR)

Chairman: Paul M. Densen, University of Pittsburgh

Papers: INTERNATIONAL NEEDS FOR HEALTH STATISTICS
Knud Stowman, U. S. Public Health Service

EVOLVING MECHANISMS FOR THE PRODUCTION OF INTERNATIONAL HEALTH STATISTICS

Halbert L. Dunn, National Office of Vital Statistics

TRAINING PROBLEMS IN THE DEVELOPMENT OF INTERNATIONAL STATISTICS

Forrest Linder, United Nations

Discussion: Harry Alpert, Division of Statistical Standards, Bureau of the Budget
Paul M. Densen, University of Pittsburgh

9:30-11:30 A.M. Statistical Evaluation of Clinical Data
COPLEY-PLAZA
Parlor C

Joint Session: A.S.A., B.S. (ENAR), A.P.H.A. (S.S.)

Chairman: Jane Worcester, Harvard University

Papers: ESTIMATE OF EFFECTIVENESS OF CANCER THERAPY FROM MORTALITY RECORDS
Joseph Berkson, Mayo Clinic

DO PERSONS LOST TO LONG TERM OBSERVATION HAVE THE SAME EXPERIENCE AS PERSONS OBSERVED?

A. P. Iskrant, U. S. Public Health Service

THE ESTIMATION OF RATES FROM CLINICAL DATA

Jerome Cornfield, National Cancer Institute

Discussion: Sidney Cutler, National Cancer Institute

9:30-11:30 A.M. Statistical Inference
COPLEY-PLAZA
Foyer

Institute of Mathematical Statistics

Chairman: S. S. Wilks, Princeton University

Papers: THE CHI-SQUARE TEST OF GOODNESS OF FIT
W. G. Cochran, Johns Hopkins University

ANALYZING STRAIGHT LINE DATA

Forman S. Acton, National Bureau of Standards, Institute of Numerical Analysis

Discussion: Jerzy Neyman, University of California at Berkeley
W. J. Youden, National Bureau of Standards

Friday

9:30 A.M.
STATLER
4th Floor

Theory of the Firm: Round Table
Econometric Society

Chairman: Herbert Simon, Carnegie Institute of Technology
Paper: THEORY OF THE FIRM
W. W. Cooper and A. Charnes, Carnegie Institute of Technology
Discussion: J. Bain, University of California at Berkeley
A. Bavelas, Massachusetts Institute of Technology
R. Dorfman, University of California at Berkeley
G. Holden, Kenwood Mills
C. Kaysen, Harvard University

9:30 A.M.
COPLEY-PLAZA
State Suite

Econometric Models of the National Economy
Econometric Society

Chairman: Tjalling C. Koopmans, Cowles Commission
Papers: AN ECONOMETRIC MODEL OF INTERINDUSTRY MATERIAL FLOWS
R. W. Shephard, Rand Corporation
AGGREGATION IN MACRO-ECONOMIC MODELS
L. Hurwicz, University of Minnesota
Discussion: M. Hastay, National Bureau of Economic Research
K. May, Carleton College

10:00 A.M.
STATLER
Parlor C

Effects of Recent Credit and Debt Management Policies Upon Financial Institutions
American Finance Association

Chairman: Roy L. Reiersen, Bankers Trust Company
Papers: EFFECT OF CREDIT AND DEBT MANAGEMENT POLICIES UPON THE COMMERCIAL BANKS
Norris O. Johnson, National City Bank
EFFECT OF CREDIT AND DEBT MANAGEMENT POLICIES UPON THE LIFE INSURANCE COMPANIES
James J. O'Leary, Life Insurance Association of America
Discussion: George T. Conklin, Guardian Life Insurance Company
William E. Dunkman, University of Rochester
Burton C. Hallowell, Wesleyan University
Roland I. Robinson, Northwestern University

Friday

10:00 A.M.
BRADFORD
Reception Room
5th Floor

Introducing and Developing Insurance in a Curriculum
American Association of University Teachers of Insurance

Chairman: Davis W. Gregg, American College of Life Underwriters
Paper: INTRODUCING AND DEVELOPING INSURANCE IN A CURRICULUM
Hampton H. Irwin, Wayne University
Discussion: William T. Beadles, Illinois Wesleyan University
Herbert C. Graebner, Butler University

10:30 A.M.
KENMORE

Concurrent Panels: Case Histories in Marketing Effectiveness
American Marketing Association

Silver Room

DISTRIBUTION COSTS

Chairman: Richard M. Clewett, Northwestern University, and National Chairman, A.M.A., Committee on Distribution Costs

Panel Participants: FINDING PRACTICAL WAYS TO INCREASE DISTRIBUTION EFFICIENCY
Charles W. Smith, McKinsey & Company, New York

NEW LIGHT ON COST PRINCIPLES IN A DRUG STORE

Orin E. Burley, University of Pennsylvania

RECENT CHANGES IN DISTRIBUTION COSTS
Paul D. Converse, University of Illinois

Wedgewood Room

PRICING

Chairman: Milton P. Brown, Harvard Graduate School of Business Administration

Panel Participants: A NEW PRICING PRINCIPLE FOR JOB-SHOP PRODUCT PRICING

Richard L. Hapgood, Senior Consultant, The Eddy-Rucker-Nickels Company, Cambridge

PRICING IN MAIL ORDER SELLING

John A. Smith, John A. Smith & Staff, Boston

Third Speaker to be Announced.

Friday

Crystal Room **ADVERTISING EFFECTIVENESS**

Chairman: Vergil D. Reed, Vice President, J. Walter Thompson Company

Panel Participants: **THE CASE FOR ORANGES**
 Julian L. Watkins, Creative Account Executive, J. Walter Thompson Company

BENDIX HOME APPLIANCES: COLLEGE CASE HISTORY PROGRAM
 Frank S. Ryan, Director of Advertising and Sales Promotion, Bendix Home Appliances Division, Avco Manufacturing Corporation

WANTED: 480,000 WOMEN
 Theodore S. Repplier, President, The Advertising Council, Inc.

Boston Room **ADVANCES IN MARKETING OF FOOD AND FIBRES AND THEIR PRODUCTS**

Chairman: Harry C. Trelogan, U. S. Department of Agriculture

Panel Participants: **MARKETING STUDIES IN AN AGRICULTURAL RESEARCH PROGRAM**
 Harry C. Trelogan, U. S. Department of Agriculture

PLANNING A NEW WHOLESALE PRODUCE MARKET FOR BOSTON
 W. C. Crow, U. S. Department of Agriculture

COORDINATING THE MARKETING OF FLORIDA CITRUS FRUIT
 George H. Goldsborough, U. S. Department of Agriculture

CONSUMER REACTIONS TO AGRICULTURAL PRODUCTS AT INDUSTRIAL AND HOUSEHOLD LEVELS
 Mrs. Trienah Meyers, U. S. Department of Agriculture

10:30 A.M. **Teachers Panel Session**
KENMORE *American Marketing Association*
Green Room

Chairman: Alfred L. Seelye, University of Texas

Topic: INDUSTRIAL MARKETING

Panel Participants: To Be Announced

Friday

10:30 A.M. **Evaluation of Recent Research on Employee Attitudes and Morale**
SOMERSET *Industrial Relations Research Association*
Louis XIV
Ballroom

Chairman: Alva F. Kindall, William Filene's Sons Company

Papers: **THE MEANING AND MEASUREMENT OF MORALE**
 Robert K. Burns, University of Chicago

THE RELATION OF MORALE TO PRODUCTIVITY
 Robert Kahn and Eugene H. Jacobson, Survey Research Center, University of Michigan

Discussion: Solomon Barkin, Textile Workers Union of America
 Alex Bavelas, Massachusetts Institute of Technology
 Andrew Kuhn, Stop & Shop, Inc.

12:00 Noon **Luncheon: Business Meeting, Section on the Training of Statisticians**
COPLEY-PLAZA *American Statistical Association*
Room 133

Chairman: Rutledge Vining, University of Virginia

12:00-3:20 P.M. **Luncheon: The Business Outlook**
COPLEY-PLAZA *American Statistical Association*
Oval Room

Chairman: Sumner H. Slichter, Harvard University

Speakers: Garfield Cox, University of Chicago
 Murray Shields, Bank of the Manhattan Company

12:00 Noon **Luncheon Meeting**
BRADFORD *American Association of University Teachers of Insurance*
Oval Room

12:30 P.M. **Luncheon and General Session**
KENMORE *American Marketing Association*
Crystal Room

Chairman: George H. Brown, Northwestern University, and National President, American Marketing Association

Subject: BUSINESS MEETING OF THE NATIONAL ASSOCIATION

Friday

1:20-3:20 P.M.
COPLEY-PLAZA
Foyer

Statistical Aspects of Engineering Measurements

American Statistical Association

Chairman: William R. Pabst, Jr., Department of the Navy

Papers: ON INTERVALS OF THE FORM $\bar{x} \pm k s$
Frank Proschan, National Bureau of Standards

THE USE OF REFERENCE STANDARDS
John Tukey, Princeton University

Discussion: Charles A. Bicking, Department of the Army
Irving W. Burr, Purdue University

1:20-3:20 P.M.
COPLEY-PLAZA
Parlor B

Round Table: A Desirable Training Program from the Point of View of the Present-Day Employer of Statisticians

American Statistical Association

Chairman: Charles A. Glover, American Telephone & Telegraph Company, New York City

Speakers: Wroe Alderson, Alderson and Sessions, Philadelphia
William C. Flaherty, Chrysler Corporation, Detroit
Harold Guillikson, Educational Testing Service, Princeton, New Jersey
Paul S. Olmstead, Bell Telephone Laboratories, Murray Hill, New Jersey
Benjamin J. Tepping, U. S. Bureau of the Census

Discussion: Lester Frankel, Alfred Politz Research, Inc.
William G. Madow, University of Illinois
Samuel S. Wilks, Princeton University

1:20-3:20 P.M.
COPLEY-PLAZA
Parlor C

The Application of Statistics in Appraising the Effectiveness of the Income-Maintenance Programs

Joint Session: A.S.A., S.W.R.G.

Chairman: Anne E. Geddes, Social Security Administration

Papers: KNOWLEDGE CONCERNING THE EFFECTIVENESS OF THE PROGRAMS
Jacob Fisher, Social Security Administration

THE GAPS IN OUR KNOWLEDGE: RESOURCES AND APPROACHES FOR FILLING THEM
John McCaslin, Kentucky State Department of Economics

Friday

PROBLEMS IN EVALUATING THE EFFECTIVENESS OF A PROGRAM IN MEETING ITS OBJECTIVES

Josephine Williams, University of Chicago

1:20-3:20 P.M.
COPLEY-PLAZA
Sheraton Room

Sampling in the 1950 Census

Joint Session: A.S.A., I.M.S.

Chairman: Morris H. Hansen, Bureau of the Census

Papers: SAMPLING IN THE 1950 CENSUS OF POPULATION AND HOUSING

Joseph Steinberg and Joseph Waksberg, U. S. Bureau of the Census

I THE BASIC POPULATION AND HOUSING SAMPLES

II THE SAMPLE FOR PRELIMINARY TABULATIONS (with A. Mindlin)

III SAMPLING INSPECTION OF CLERICAL PROCESSING (with T. Jabine)

IV THE SURVEY OF RESIDENTIAL FINANCING (with N. Lieder)

V MEASUREMENT OF BIASES AND VARIANCES (with H. Hess)

SAMPLING IN THE 1950 CENSUS OF AGRICULTURE

Harold Nisselson and Floyd Berger, U. S. Bureau of the Census

Discussion: Earl E. Houseman, Bureau of Agricultural Economics, U. S. Department of Agriculture
Frederick F. Stephan, Princeton University

1:20 P.M.
COPLEY-PLAZA
State Suite

Forecasting

Econometric Society

Chairman: W. Allen Wallis, University of Chicago

Papers: THE ECONOMETRIC APPROACH TO FORECASTING

L. Klein, University of Michigan

CANADIAN EXPERIENCE IN FORECASTING FROM ECONOMETRIC MODELS

T. M. Brown, Department of Trade and Commerce, Ottawa

SOME PRACTICAL RESULTS OF FORECASTING WITH A QUARTERLY MODEL

H. Barger, Columbia University

Discussion: R. W. Adams, Standard Oil of New Jersey
V. L. Bassie, University of Illinois
P. Boschan, Econometric Institute

Friday

2:00 P.M.
BRADFORD
Reception Room
5th Floor

Some Recent Developments in Insurance
American Association of University Teachers of Insurance

Chairman: Harry J. Loman, University of Pennsylvania

Papers: THE IMPACT OF MULTIPLE LINE POWERS ON THE INSURANCE INDUSTRY
H. Clay Johnson, Royal-Liverpool Insurance Group

THE IMPACT OF NEW DISABILITY COVERAGE ON THE LIFE INSURANCE COMPANIES
John H. Miller, Monarch Life Insurance Company

2:00 P.M.
SOMERSET
Louis XIV
Ballroom

American Labor and International Labor Activities
Industrial Relations Research Association

Chairman: Walter Galenson, University of California at Berkeley

Papers: (Topics to be announced)
Philip Delaney, American Federation of Labor
Michael Ross, Congress of Industrial Organizations

Discussion: Daniel Horowitz, Department of State
Philip Kaiser, Assistant Secretary of Labor
Robert Oliver, Economic Cooperation Administration

2:00 P.M.
SOMERSET
Princess
Ballroom

Dynamics of the Local Labor Market
Industrial Relations Research Association

Chairman: E. J. Eberling, Tennessee Department of Employment Security, and Vanderbilt University

Papers: FINDINGS OF RECENT STUDIES
George P. Shultz, Massachusetts Institute of Technology

ADMINISTRATIVE APPLICATIONS
Don H. Roney, California Department of Employment

Discussion: E. C. Cain, Carbide and Carbon Chemical Co.
William Haber, University of Michigan
Louis Levine, Bureau of Employment Security
Ted F. Silvey, Congress of Industrial Organizations

Friday

2:30 P.M.
STATLER
Parlors A and B

Value Theory
American Economic Association

Chairman: Edward H. Chamberlin, Harvard University

Papers: A REHABILITATION OF PARTIAL ANALYSIS
Melvin W. Reder, Stanford University

DYNAMIC ASPECTS OF OLIGOPOLY PRICE THEORY
Carl Kaysen, Harvard University

Discussion: Gardner Ackley, Office of Price Stabilization
Joe S. Bain, University of California

2:30 P.M.
STATLER
Ballroom

General Factors in Economic Growth in the United States
Joint Session: A.E.A., A.S.A.

Chairman: Arthur F. Burns, Columbia University and National Bureau of Economic Research

Papers: RELATION OF CAPITAL FORMATION TO NATIONAL PRODUCT
Simon Kuznets, University of Pennsylvania and National Bureau of Economic Research

SECULAR CHANGE IN INCOME DISTRIBUTION
Geoffrey H. Moore, National Bureau of Economic Research

THE ROLE OF PRODUCTIVITY IN ECONOMIC GROWTH
Frederick C. Mills, Columbia University and National Bureau of Economic Research

Discussion: James S. Duesenberry, Harvard University
Frank R. Garfield, Federal Reserve Board
Raymond W. Goldsmith, Washington, D. C.

2:30 P.M.
STATLER
Georgian Room

Recent Developments in United States Monetary Policy
Joint Session: A.E.A., A.F.A.

Chairman: Alfred C. Neal, Federal Reserve Bank of Boston

Papers: INTEGRATING DEBT MANAGEMENT AND OPEN MARKET OPERATIONS
Robert V. Rosa, Federal Reserve Bank of New York

CONTROL OVER BANK PORTFOLIOS AS AN INSTRUMENT OF MONETARY CONTROL
Lawrence W. Seltzer, Wayne University

A CHECK LIST OF IRWIN TEXTS IN ECONOMICS

BUSINESS ECONOMICS

Principles and Cases

By R. M. Alt, Formerly, The Johns Hopkins University, and W. C. Bradford, Northwestern University

WELFARE AND COMPETITION

The Economics of a Fully Employed Economy

By Tibor Scitovsky, Stanford University

ECONOMICS OF LABOR RELATIONS

By Frederic Meyers, University of Texas

MONEY, INCOME, AND MONETARY POLICY

By E. S. Shaw, Stanford University

INTERMEDIATE ECONOMIC ANALYSIS

Revised Edition

By J. F. Due, University of Illinois

COLLECTIVE BARGAINING

Principles and Cases

By John T. Dunlop, Harvard University

MEASURES OF BUSINESS CHANGE

A Baker Library Index

By A. H. Cole, Harvard University

QUALITY CONTROL AND INDUSTRIAL STATISTICS

By A. J. Duncan, The Johns Hopkins University

INVESTMENT ANALYSIS AND MANAGEMENT

By L. V. Plum and J. H. Humphrey, Jr., both with firm of Calvin Bullock

FINANCIAL INSTITUTIONS

By E. W. Boehmler (Editor), R. I. Robinson, E. H. Gane, and L. C. Farwell, all of Northwestern University

POLICY FORMULATION AND ADMINISTRATION

A Casebook of Top-Management Problems in Business

By G. A. Smith, Harvard University

THE REGULATION OF INDUSTRY

By D. F. Pegrum, University of California at Los Angeles

RICHARD D. IRWIN, INC.

Friday

AN APPRAISAL OF SELECTIVE CREDIT CONTROLS

R. J. Saulnier, Barnard College, Columbia University, and National Bureau of Economic Research

Discussion: Howard R. Bowen, University of Illinois
Lester V. Chandler, Princeton University
Paul W. McCracken, University of Michigan

**2:30 P.M.
STATLER
4th Floor**

Theory of Consumption *Econometric Society*

Chairman: Dorothy S. Brady, U. S. Bureau of Labor Statistics

Papers: A SURVEY OF THE THEORY OF RATIONING
J. Tobin, Yale University

SOME IMPLICATIONS OF EMPIRICAL RESEARCH FOR CONSUMPTION THEORY

H. S. Houthakker, Cambridge University

PREDICTION AND VARIOUS CONSUMPTION FUNCTIONS

T. E. Davis, Johns Hopkins University

Discussion: Elizabeth W. Gilboy, Harvard University
I. Schweiger, Federal Reserve Board
Eleanor M. Snyder, U. S. Bureau of Labor Statistics

**2:30 P.M.
KENMORE
Crystal Room**

General Session *American Marketing Association*

Chairman: Ross M. Cunningham, Massachusetts Institute of Technology

Subject: HOW MANAGEMENT USES MARKETING RESEARCH

Discussion: Shea Smith, III, Manager of Business Research, and Howard J. Heffernan, General Manager of Sales, Monsanto Chemical Company
D. E. Megathlin, Director of Market Research, and W. O. Forssell, Divisional Vice President, Kendall Mills
Frank W. Mansfield, Director of Sales Research, and Terry P. Cunningham, Director of Advertising and Sales Promotion, Sylvania Electric Products, Inc.

VISIT
OUR
EXHIBIT

Well-recommended Texts of Recent Date

Mathematics of Finance

Albert E. May, *Assistant Director
Racine Ext. Center, Univ. of Wis.*

"Most textbooks on this subject have far too many formulas with the result that the student fails to understand underlying principles. A strong feature of this text is the careful development, with diagrams, of the procedures used and the limitation on the number of formulas presented."

—K. G. Fuller, Teachers College of Connecticut

Economics of Investment

Jacob O. Kamm, *Director, School of
Commerce, Baldwin-Wallace College*

"This book should be especially useful for a course in investments not preceded by a course in corporation finance. Its simplicity and sound theory make it suitable for an elementary course, but the theory is illustrated and enriched by a practical background. Thus the book should be valuable to the practical investor as well as to the student."

—H. G. Fraine, University of Wisconsin

Elementary Economics

Leland J. Gordon, *Chairman, Dept.
of Economics, Denison University*

Teacher's Short-answer Questions. Student's Manual. Teacher's Manual and Key

"I like the approach of Professor Gordon's *Elementary Economics* using day to day experience of the student who is also a consumer. The use of this text is bound to make the science of economics more interesting and understandable for the beginning student."

—E. Eldridge Brewster, Kansas Wesleyan University

Economics for Consumers

Leland J. Gordon, *Chairman, Dept.
of Economics, Denison University*

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Edition

"Leland Gordon has produced the outstanding work in the field. The second edition of his well-accepted *Economics for Consumers* is a thoroughly revised volume, which will undoubtedly take its place as the standard book on the subject."

—Colston E. Warne of Amherst College in
the *Survey Midmonthly* (now *The Survey*)

Public Finance

William Withers, *Associate Profes-
sor of Economics, Queens College*

"Aside from its emphasis upon Keynesian doctrines, one of the most unusual features of this volume is its Introduction. This takes up one-fourth of the entire text and is composed mostly of what might be called a tax or financial history of the United States."

—Roy G. Blakey of the University of California
at Los Angeles in the *American Economic Review*

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55 Fifth Avenue, New York 3, N. Y.
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351 East Ohio Street, Chicago 11, Ill.

Friday

2:30 P.M.
KENMORE
Silver Room

Teachers Panel Session

American Marketing Association

Chairman: Donald K. Beckley, Prince School of Retailing

Topic: RETAILING

Panel Participants: WHAT IS AHEAD FOR COLLEGIATE RETAIL TRAINING?

George Hansen, President, Chandler & Company

WHAT IS WRONG WITH RETAIL EDUCATION?
Arthur Einstein, Pennsylvania State College

THE FUTURE FOR SCHOOLS AND DEPART-
MENTS OF RETAILING

W. K. Dolva, Washington University

3:30-5:30 P.M.
COPLEY-PLAZA
Foyer

Monetary and Credit Statistics

American Statistical Association

Chairman: Carl E. Parry, Washington, D. C.

Papers: FACTS NEEDED FOR MONETARY POLICY
FORMATION IN THE UNITED STATES
Roland I. Robinson, Northwestern Uni-
versity

FACTS NEEDED FOR MONETARY POLICY
FORMATION IN OTHER COUNTRIES.
Earl Hicks, International Monetary Fund

Discussion: Henry C. Wallich, Yale University
Richard Youngdahl, Board of Governors,
Federal Reserve System

3:30-5:30 P.M.
COPLEY-PLAZA
Parlor C

Intra-Company Statistical Programs

American Statistical Association

Chairman: Robert W. Burgess, Western Electric Company

Papers: ANALYSIS AND FORECASTS OF COMPANY
SALES
Edmund R. King, Eastman Kodak Company

INVENTORY CONTROL IN DEPARTMENT
STORES
Q. Forrest Walker, R. H. Macy and Company

MORTGAGE EXPERIENCE STUDIES
Eleanor S. Bagley, Mutual Life Insurance
Company of New York

INTRA-COMPANY STATISTICS IN THE STAN-
DARD OIL COMPANY OF NEW JERSEY
C. Ashley Wright, Standard Oil Company of
New Jersey

Friday

3:30-5:30 P.M.
COPLEY-PLAZA
Copley Club

Contributed Papers

Joint Session: A.S.A., B.S. (ENAR)

Chairman: Horace W. Norton, University of Illinois

Papers: ESTIMATION OF THE T-YEAR SURVIVAL
RATE FROM FOLLOW-UP STUDIES

Arthur S. Littell, Western Reserve University

WEIGHTING INVERSELY AS THE ESTIMATED
VARIANCE

Sarah Porter Carroll and W. G. Cochran,
Johns Hopkins University

AN APTITUDE TEST FOR PREDICTING SUCCESS
IN STATISTICAL ACHIEVEMENT

D. F. Votaw, Sr., Southern Texas State
Teachers College

3:30-5:30 P.M.
COPLEY-PLAZA
Parlor B

**Round Table: Goals for the Study of Mathe-
matics by Social Scientists**

Joint Session: A.S.A., I.M.S.

Chairman: William G. Madow, University of Illinois

Speakers: Paul F. Lazarsfeld, Columbia University
Jacob Marschak, University of Chicago
Paul Samuelson, Massachusetts Institute of
Technology
Frederick F. Stephan, Princeton University
Rutledge Vining, University of Virginia

Discussion: Members of the Committee on the Mathematical
Training of Social Scientists

3:30-5:30 P.M.
COPLEY-PLAZA
Sheraton Room

Census Statistics

Joint Session: A.S.A., P.A.A.

Chairman: Roy V. Peel, Bureau of the Census

Papers: INTERNATIONAL COORDINATION OF LATIN
AMERICAN CENSUSES

Calvert L. Dedrick, Bureau of the Census

CANADA'S 1951 CENSUS

O. A. Lemieux, Dominion Bureau of Sta-
tistics, Canada

Friday

CENSUS RESEARCH IN DATA COLLECTION
TECHNIQUES

Lowell T. Galt, Bureau of the Census

Discussion: Forrest Linder, United Nations
Donald Riley, Division of Statistical Standards,
Bureau of the Budget

4:00 P.M.
BRADFORD
Gov. Bradford
Room

Annual Business Meeting

*American Association of University Teachers of
Insurance*

5:00 P.M.
STATLER
Parlors A and B

Annual Business Meeting

American Economic Association

5:40 P.M.
COPLEY-PLAZA
Room 133

1952 Council Meeting

Institute of Mathematical Statistics

7:00 P.M.
BRADFORD
Bradford Roof

Annual Dinner Meeting

*American Association of University Teachers of
Insurance*

Speaker: Julian D. Anthony, President, The Columbian
National Life Insurance Company

8:30 P.M.
STATLER
Ballroom

**Boston Pops Orchestra—Arthur Fiedler Con-
ducting**

All Associations

9:00 P.M.
SOMERSET
Louis XIV
Ballroom

Smoker for All Members

Industrial Relations Research Association

NORTON

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for spring publication

Basic Statistics

A Textbook with Special Reference
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SUMMARY OF SATURDAY MEETINGS

8:00 A.M.
Chapter and District Representatives Meeting (ASA)

9:30 A.M.

Business Cycle Theory (AEA)
International Trade in the Postwar World (AEA)
The Role of War in American Economic Development (AEA, EHA)
Index Number Developments (ASA)
Measurement of Construction Activity Under Government Restrictions (ASA)
Statistical Quality Control (ASA)
Round Table: How Can Statistical Research Methods Be Used in Evaluating Counseling Services? (ASA)
The Function of Arbitration in Labor Relations (IRRA)
Discrete Random Processes and Actuarial Theory (ASA, SA, IMS, BS, AAUTI)
Statistical Studies of Monetary Flows (ES)
Programming Problems (ES)
Commemorating Twenty-Fifth Anniversary of Death of Heinrich Pesch (CEA)
Union-Management Cooperation (IRRA)

10:00 A.M.

Recent Developments at Home and Abroad in Business Finance (AFA)

12:00 Noon

Luncheon Meeting of the Executive Committee (AEA)
Luncheon: Census Tract Conference (ASA)
Luncheon: Meeting of Incoming Board and Council (ASA)
Luncheon—Commemorating Tenth Anniversary of Formation of Catholic Economic Association (CEA)

12:15 P.M.

Annual Luncheon (IRRA)

1:20 P.M.

Standards of Statistical Conduct (ASA)
Morbidity Statistics (ASA, BS, APHA)
Application of Statistics in Sociology (ASA, ASS)
Credit Regulations and Consumer Buying (ASA, AFA)
A Review of Mathematical Biology (ASA, BS)
Contributed Papers (ES)
Efficiency and Super-efficiency of Estimates (IMS)

2:00 P.M.

Commemorating Sixtieth Anniversary of *Rerum Novarum* and Twentieth Anniversary of *Quadragesimo Anno* (CEA)

2:30 P.M.

Growth in Underdeveloped Countries (AEA)
Monetary Theory (AEA)
Collective Bargaining in the Regulated Industries (AEA)
Contributed Papers (ES)
Labor's Participation in the Defense Effort (IRRA)
Social Security Today (IRRA)

3:30 P.M.

The Program for the Future Development of the Section on Training (ASA)
Practical Application of Industrial Statistics (ASA)
The Use of the Range (ASA, BS)
Contributed Papers—III (IMS)

4:00 P.M.

Current Scene (CEA)

8:00 P.M.

Business Meeting (CEA)

ADVANCE INFORMATION

Forthcoming WILEY Books

Kemphorne — **THE DESIGN AND ANALYSIS OF EXPERIMENTS.***
January 1952. Approx. 600 pages. Prob. \$8.00.

Tinter — **ECONOMETRICS.** March 1952. Approx. 330 pages. Prob. \$5.75.

Hald — **STATISTICAL THEORY WITH ENGINEERING APPLICATIONS.***
February 1952. Approx. 654 pages. Prob. \$7.50

Rao — **ADVANCED STATISTICAL METHODS IN BIOMETRIC RESEARCH.*** May 1952. Approx. 394 pages. Prob. \$7.50.

Published in 1951

Jaffe-Stewart — **MANPOWER RESOURCES AND UTILIZATION,** Principles of Working Force Analysis. 1951. 532 pages. \$6.50.

Mudgett — **INDEX NUMBERS.*** 1951. 135 pages. \$3.00.

Goode — **THE CORPORATION INCOME TAX.** 1951. 242 pages. \$3.00

Arrow — **SOCIAL CHOICE AND INDIVIDUAL VALUES.** Cowles Commission Monograph # 12. 1951. 99 pages. \$2.50.

Waite-Trelogan — **AGRICULTURAL MARKET PRICES,** Second Edition. 1951. 440 pages. \$5.25.

Shultz — **PRESSURES ON WAGE DECISIONS:** A Case Study in the Shoe Industry. A Technology Press book, M.I.T. 1951. 142 pages. \$3.00.

Buros — **STATISTICAL METHODOLOGY REVIEWS, 1941-1950.** 1951. 457 double-column pages. \$7.00.

Koopmans — **ACTIVITY ANALYSIS OF PRODUCTION AND ALLOCATION.** Cowles Commission Monograph 13. 1951. 404 pages. \$4.50

Morse-Kimball — **METHODS OF OPERATIONS RESEARCH.** A Technology Press book, M.I.T. 1951. 158 pages. \$4.00.

Nicholson — **AIR TRANSPORTATION MANAGEMENT,** Its Practices and Policies. 1951. 446 pages. \$6.50.

Larson-Gaumnitz — **LIFE INSURANCE MATHEMATICS.** 1951. 184 pages. \$3.75.

*A Wiley Publication in Statistics, Walter E. Shewhart, Editor

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SCHEDULE OF MEETINGS

Saturday, December 29, 1951

8:00-9:30 A.M.
COPLEY-PLAZA
Room 133

Chapter and District Representatives Meeting
American Statistical Association

9:30 A.M.
STATLER
Georgian Room

Business Cycle Theory
American Economic Association

Chairman: Moses Abramovitz, Stanford University

Papers: TOWARD A DYNAMIC THEORY OF THE CYCLE
Alvin H. Hansen, Harvard University

WAGES IN THE BUSINESS CYCLE
Lloyd G. Reynolds, Yale University

Discussion: Robert A. Gordon, University of California
Joseph Shister, University of Buffalo

9:30 A.M.
STATLER
Ballroom

International Trade in the Postwar World
American Economic Association

Chairman: John B. Condliffe, University of California

Papers: METHODS OF ADJUSTMENT IN INTERNATIONAL PAYMENTS—THE LESSONS OF POST-WAR EXPERIENCE
Emile Despres, Williams College, and C. P. Kindleberger, Massachusetts Institute of Technology

REGIONAL ORGANIZATION IN THE SPHERE OF TRADE AND PAYMENTS—WESTERN EUROPE AND THE STERLING SYSTEM
J. Marcus Fleming, Columbia University

Discussion: Albert O. Hirschman, Federal Reserve Board
Robert Triffin, Yale University

9:30 A.M.
STATLER
Parlors A and B

The Role of War in American Economic Development
Joint Session: A.E.A., E.H.A.

Chairman: Earl J. Hamilton, University of Chicago

Papers: WARTIME CHANGES IN THE MONEY SUPPLY IN THE UNITED STATES
Milton Friedman, University of Chicago

Saturday

THE EFFECTS OF THE CIVIL WAR AND THE TWO WORLD WARS ON AMERICAN TRANSPORTATION

John G. B. Hutchins, Cornell University

Discussion: Milton Heath, University of North Carolina
C. R. Whittlesey, University of Pennsylvania

9:30-11:30 A.M. **Index Number Developments**
COPLEY-PLAZA *American Statistical Association*
Sheraton Room

Chairman: Geoffrey H. Moore, National Bureau of Economic Research

Papers: PROGRESS IN THE REVISION OF THE FEDERAL RESERVE INDEX OF INDUSTRIAL PRODUCTION

Lorman C. Trueblood and Arthur Broida, Board of Governors, Federal Reserve System

MINIMIZING ERRORS IN THE CONSTRUCTION AND USE OF PRICE INDEXES

Representative of the U. S. Bureau of Labor Statistics

Discussion: Barrie N. Davies, Statistical Office of the United Nations
Francis E. McIntyre, California Texas Oil Company, Ltd.
J. S. Stock, McCann-Erickson Company

9:30-11:30 A.M. **Measurement of Construction Activity Under Government Restrictions**
COPLEY-PLAZA *American Statistical Association*
Parlor B

Chairman: Walter E. Hoadley, Jr., Armstrong Cork Company

Papers: NEW DEVELOPMENTS IN GOVERNMENT CONSTRUCTION STATISTICS

E. Everett Ashley, 3rd., U. S. Housing and Home Finance Agency

THE 1952 CONSTRUCTION OUTLOOK
Clyde Shute, F. W. Dodge Corporation

Discussion: P. H. Raley, American Radiator and Standard Sanitary Corporation
H. E. Riley, U. S. Bureau of Labor Statistics

9:30-11:30 A.M. **Statistical Quality Control**
COPLEY-PLAZA *American Statistical Association*
Foyer

Chairman: Ellis R. Ott, Rutgers University

Saturday

Papers: STATISTICAL TRAINING IN INDUSTRY
Paul C. Clifford, State Teachers College, New Jersey

APPLICATIONS IN PROCESS CONTROL
Martin A. Brumbaugh, Bristol Laboratories

9:30-11:30 A.M. **Round Table: How Can Statistical Research Methods Be Used in Evaluating Counseling Services?**
COPLEY-PLAZA
Parlor C

Joint Session: A.S.A., S.W.R.G.

Chairman: Edward E. Schwartz, U. S. Children's Bureau

Speakers: Leonard S. Kogan, Community Service Society of New York

Eli S. Marks, U. S. Bureau of the Census

9:30 A.M. **The Function of Arbitration in Labor Relations**
SOMERSET
Louis XIV
Ballroom

Industrial Relations Research Association

Chairman: George W. Taylor, University of Pennsylvania

Papers: COLLECTIVE BARGAINING, FREE ENTERPRISE, AND THE ARBITRATION PROCESS

I. L. Sharfman, University of Michigan

ARBITRATION—WHOSE RESPONSIBILITY?
David L. Cole

Discussion: Dexter M. Keezer, McGraw-Hill Publishing Company
Clark Kerr, University of California at Berkeley
Benjamin M. Selekman, Harvard University

9:30-11:30 A.M. **Discrete Random Processes and Actuarial Theory**
COPLEY-PLAZA
Oval Room

Joint Session: A.S.A., S.A., I.M.S., B.S. (ENAR), A.A.U.T.I.

Chairman: Mortimer Spiegelman, Metropolitan Life Insurance Company

Paper: DISCRETE RANDOM PROCESSES—THE PROBABILITY BASIS OF MORTALITY THEORY
H. L. Seal, Morss & Seal, N. Y.

Discussion: H. W. Alexander, Adrian College
T. N. E. Greville, National Office of Vital Statistics, U. S. Public Health Service
John E. Walsh, U. S. Naval Ordnance Test Station

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lished*

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William H. Schrampf, Iowa State
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In this new edition, stress has been placed upon the preventive aspects of law. Much of the text material has been rewritten and expanded, the number of illustrations has been greatly increased and modern cases have been introduced into the problem material.

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Saturday

9:30 A.M.
STATLER
4th Floor

Statistical Studies of Monetary Flows *Econometric Society*

Chairman: Frederick C. Mills, Columbia University

Papers: SOCIAL ACCOUNTING AND ECONOMIC ANALYSIS
D. Brill, Federal Reserve Board

CONTRASTS IN PATTERNS OF FLOWS OF COMMODITIES AND FUNDS
Ruth P. Mack, National Bureau of Economic Research

STOCKS AND FLOWS IN MONETARY ANALYSIS
K. Brunner, University of California at Los Angeles; H. Markowitz, RAND Corporation

Discussion: K. E. Boulding, University of Michigan
A. G. Hart, Columbia University
A. P. Lerner, Roosevelt College

9:30 A.M.
COPLEY-PLAZA
State Suite

Programming Problems *Econometric Society*

Chairman: C. B. Tompkins, George Washington University

Papers: SOME ASPECTS OF INVENTORY CONTROL
J. Marschak, Cowles Commission

ASPECTS OF TECHNOLOGY AND ORGANIZATION
D. Rosenblatt, Carnegie Institute of Technology

Discussion: A. Bergson, Columbia University
M. Flood, RAND Corporation

9:30 A.M.
STATLER
Parlor C

Commemorating Twenty-Fifth Anniversary of Death of Heinrich Pesch *Catholic Economic Association*

Chairman: Rev. W. Seavey Joyce, S. J., Boston College

Topic: ECONOMIC MEANING OF SOLIDARISM: PRE-
NOTES TO VOCATIONAL GROUPING OF
ECONOMIC SOCIETY
Rev. Richard E. Mulcahy, S. J., University
of San Francisco

Discussion: Franz H. Mueller, College of St. Thomas
Sr. M. Thomasine, O. P., Rosary College

Saturday

9:30 A.M.
SOMERSET
Princess
Ballroom

Union-Management Cooperation
Industrial Relations Research Association

Chairman: Clinton Golden, Graduate School of Business
Administration, Harvard University

Papers: SOME EXPERIENCES WITH A UNION-MANAGE-
MENT COOPERATION PLAN
Robert C. Tait, Stromberg-Carlson Company

LOCAL UNION EXPERIENCE WITH A CO-
OPERATION PLAN
Frederick G. Lesieur, LaPointe Machine
Tool Company

Discussion: Neil W. Chamberlain, Yale University
W. R. Dymond, Department of Labour, Ottawa
William Gomberg, International Ladies' Gar-
ment Workers Union

10:00 A.M.
JOHN HANCOCK
BUILDING
Conference Room

**Recent Developments at Home and Abroad in
Business Finance**
American Finance Association

Chairman: Charles C. Abbott, Harvard University

Papers: DEFERRED DEPRECIATION — A CANADIAN
ANTI-INFLATIONARY MEASURE
Mitchell W. Sharp, Associate Deputy
Minister of the Department of Trade and
Commerce

FINANCING BUSINESS EXPANSION SINCE
KOREA
Robert P. Ulin, McGraw-Hill Publishing
Company

INTERNATIONAL BUSINESS INVESTMENT:
GOVERNMENTAL AND PRIVATE
Philip D. Bradley

Discussion: H. Frederick Hagemann, Jr., Rockland-Atlas
National Bank of Boston
Frederick S. Morton, Davidson College

12:00 Noon
STATLER
Parlor F

**Luncheon Meeting of the Executive Com-
mittee**
American Economic Association

Saturday

12:00-5:00 P.M.
COPLEY-PLAZA
Oval Room

Luncheon: Census Tract Conference
American Statistical Association

Chairman: Howard Whipple Green, Cleveland Health
Council

Papers: GREETINGS FROM THE BUREAU OF THE
CENSUS
Roy V. Peel, Bureau of the Census

PUBLICATION SCHEDULE FOR THE SEVEN-
TEENTH DECENNIAL CENSUS
Conrad Taeuber, Bureau of the Census

THE CANADIAN TRACT PROGRAM
O. A. Lemieux, Dominion Bureau of
Statistics, Canada

Round Table Discussion: PUTTING CENSUS TRACTS TO WORK
BY CITY PLANNERS
Harlin G. Loomer, Philadelphia City Planning
Association

BY HOUSING AGENCIES
Frank A. Mucha, Federal Housing Ad-
ministration, New York City

BY VITAL STATISTICIANS
Rachel M. Jeness, Erie County Health
Department, New York

BY SOCIAL AGENCIES
Dorothy W. Myers, United Community
Services of Metropolitan Boston

BY RETAILERS
Donald R. G. Cowan, University of Michigan

BY MANUFACTURERS
W. Carl Masche, Browne & Bigelow, St. Paul

BY BUSINESS
Irving M. Plant, Consolidated Edison
Company of New York, Inc.

12:00 Noon
COPLEY-PLAZA
Room 133

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

Saturday

12:00 Noon
STATLER
Parlor C

Luncheon—Commemorating Tenth Anniversary of Formation of Catholic Economic Association
Catholic Economic Association

Chairman: Josef Solterer, Georgetown University

Guest: His Excellency, The Most Reverend Richard J. Cushing, D.D., Archbishop of Boston

Topic: THE APPLICATION OF ECONOMIC SCIENCE: NORMS AND VALUE JUDGMENTS

John H. Sheehan, University of Notre Dame, President of the Catholic Economic Association

12:15 P.M.
SOMERSET
Louis XIV
Ballroom

Annual Luncheon
Industrial Relations Research Association

Speaker: President William M. Leiserson

1:20-3:20 P.M.
COPLEY-PLAZA
Parlor B

Standards of Statistical Conduct
American Statistical Association

Chairman: Martin R. Gainsbrugh, National Industrial Conference Board

Papers: SIMPLIFICATION WITHOUT DECEPTION
Andrew T. Court, General Motors Corporation

STATISTICAL STANDARDS AND THE CENSUS
Morris H. Hansen, U. S. Bureau of the Census

THE STATISTICIAN AND HIS CONSCIENCE
Theodore H. Brown, Harvard Graduate School of Business Administration

Discussion: W. W. K. Freeman, Mutual Boiler and Machinery Insurance Company
Clarence D. Long, Johns Hopkins University
J. E. Morton, Bureau of Mines, U. S. Department of Interior

Saturday

1:20-3:20 P.M.
COPLEY-PLAZA
Copley Club

Morbidity Statistics
Joint Session: A.S.A., B.S. (ENAR), A.P.H.A. (S.S.)

Chairman: Robert B. Reed, Harvard University

Papers: EVALUATION OF SELECTIVE SERVICE DEFECT STATISTICS
Bernard D. Karpinos, Department of the Army

FACTORS AFFECTING DISABILITY CLAIM AND TERMINATION RATES

Barkev S. Sanders, Social Security Administration

HOSPITAL RECORDS AS A SOURCE OF MORBIDITY STATISTICS

Marta Fraenkel, New York City Department of Hospitals

Discussion: Clifford A. Bachrach, Johns Hopkins School of Hygiene and Public Health
William M. Haenszel, Connecticut Department of Health
Morton Robins, Veterans Administration

1:20-3:20 P.M.
COPLEY-PLAZA
Foyer

Application of Statistics in Sociology
Joint Session: A.S.A., A.S.S.

Chairman: Frank Lorimer, The American University

Papers: USE OF MARGIN-PUNCHED CARDS IN SCALING SOCIAL DATA
Daniel O. Price, University of North Carolina

PURPOSIVE SAMPLING IN A STUDY OF COMMUNITY DIFFERENCES IN REACTIONS TO ATOMIC ENERGY

Charles A. Metzner, University of Michigan

APPLICATION OF STATISTICS IN SOCIOLOGY
Samuel A. Stouffer, Harvard University

Discussion: Robert T. Bower, The American University
Dorothy S. Thomas, University of Pennsylvania

1:20-3:20 P.M.
COPLEY-PLAZA
Sheraton Room

Credit Regulations and Consumer Buying
Joint Session: A.S.A., A.F.A.

Chairman: Ernst A. Dauer, Household Finance Corporation

Saturday

Papers: A CRITICAL EVALUATION OF AVAILABLE
CONSUMER CREDIT STATISTICS
Duncan Holthausen, Union City, New Jersey

MEASURING THE IMPACT OF CONSUMER
CREDIT CONTROLS ON SPENDING

Clarke L. Fauver and Ralph A. Young,
Board of Governors of the Federal Reserve
System

Discussion: Reavis Cox, University of Pennsylvania
Avram Kisselgoff, Bank of New York and
Fifth Avenue Bank
Wallace P. Mors, Western Reserve University
Thomas W. Rogers, American Finance Con-
ference

1:20-3:20 P.M.
COPLEY-PLAZA
Room 131

A Review of Mathematical Biology
Joint Session: A.S.A., B.S. (ENAR)

Chairman: John Tukey, Princeton University

Papers: THE MATHEMATICAL BIOLOGY OF ORGANIC
FORM
N. Rashevsky, University of Chicago

THE THEORY OF THE CENTRAL NERVOUS
SYSTEM
A. Rapoport, University of Chicago

EXCITATION AND THRESHOLD PHENOMENA
IN IRRITABLE TISSUE
G. Karreman, University of Chicago

BIOPHYSICS OF CELL DIVISION
A. Shimmel, University of Chicago

1:20 P.M.
COPLEY-PLAZA
Parlor C

Contributed Papers
Econometric Society

Chairman: Robert Solow, Massachusetts Institute of
Technology

Papers: THE INFLUENCE OF INTEREST RATES ON
TIME-SERIES OF PRICE
H. T. Davis, Northwestern University

THE INDEX NUMBER VECTOR AS A PROJEC-
TION OF THE GENERAL CONSTELLATION
P. Boschan, Econometric Institute

Discussion: General Discussion from the Floor

Saturday

1:20-3:20 P.M.
COPLEY-PLAZA
State Suite

Efficiency and Super-efficiency of Estimates
Institute of Mathematical Statistics

Chairman: J. F. Daly, Bureau of the Census

Papers: ON THE PROBLEM OF ASYMPTOTIC EF-
FICIENCY OF ESTIMATES

Jerzy Neyman, University of California at
Berkeley

LOCAL SUPER-EFFICIENCY

J. L. Hodges, University of Chicago

SETS OF PARAMETER POINTS AT WHICH
ASYMPTOTIC SUPER-EFFICIENCY IS POS-
SIBLE

Lucien Le Cam, University of California at
Berkeley

RELATIVE PRECISION OF LEAST SQUARES
AND MAXIMUM LIKELIHOOD ESTIMATES
OF REGRESSION COEFFICIENTS

Joseph Berkson, Mayo Clinic

Discussion: Agnes Berger, New York University

2:00 P.M.
STATLER
Parlor C

Commemorating Sixtieth Anniversary of *Rerum*
Novarum and Twentieth Anniversary of
Quadragesimo Anno
Catholic Economic Association

Chairman: Sr. M. Alexine Beatty, S.S.J., Regis College

Topic: ECONOMIC RESEARCH AND THE SOCIAL
ENCYCLICALS: PROGRESS AND POVERTY

Rev. John F. Cronin, S. S., Catholic Uni-
versity of America and Social Action Depart-
ment of the National Catholic Welfare
Conference

Discussion: Arthur F. Burns, Columbia University and
National Bureau of Economic Research
versity and National Bureau of Economic
Research

Rev. Joseph M. Becker, S. J., Saint Louis Uni-
versity and Institute of Social Sciences

Saturday

2:30 P.M.
STATLER
Ballroom

Growth in Underdeveloped Countries
American Economic Association

Chairman: Paul N. Rosenstein-Rodan, International Bank for Reconstruction and Development

Papers: SOME INTERNATIONAL ASPECTS OF THE PROBLEM OF ECONOMIC DEVELOPMENT
Ragnar Nurkse, Columbia University

THE FISCAL AND MONETARY IMPLEMENTATION OF DEVELOPMENT PROGRAMS

John H. Adler, International Bank for Reconstruction and Development

Discussion: Horst Mendershausen, Federal Reserve Bank of New York
Hans P. Neisser, New School for Social Research
H. W. Singer, United Nations

2:30 P.M.
STATLER
Georgian Room

Monetary Theory
American Economic Association

Chairman: James W. Angell, Columbia University

Papers: INTEREST RATES, LIQUID ASSETS, AND SPENDING DECISIONS
James Tobin, Yale University

WARTIME MONETARY EVENTS AND MONETARY THEORY

Roland N. McKean, Vanderbilt University

Discussion: Edward S. Shaw, Stanford University
Henry C. Wallich, Yale University

2:30 P.M.
STATLER
Parlor A

Collective Bargaining in the Regulated Industries
American Economic Association

Chairman: C. Emery Troxel, Wayne University

Papers: INTERDEPENDENCE OF WAGE AND PRICE DETERMINATION IN THE REGULATED INDUSTRIES
Eli W. Clemens, University of Maryland

Saturday

THE REGULATORY AGENCY AND INDUSTRIAL RELATIONS: THE AIRLINES CASE

Mark Kahn, Wayne University

Discussion: Robert W. Harbeson, University of Illinois
William N. Leonard, Pennsylvania State College

2:30 P.M.
STATLER
4th Floor

Contributed Papers
Econometric Society

Chairman: Nicholas Georgescu-Roegen, Vanderbilt University

Papers: PROBLEMS OF SOCIAL SECURITY FROM AN ECONOMETRIC POINT OF VIEW
E. Schoenbaum, Mexican Institute of Social Security

INTERNATIONAL AGREEMENTS AND THE THEORY OF COMMITTEE DECISIONS

D. Black, University of Toronto

THE MECHANISM OF INTERNATIONAL ADJUSTMENT

S. S. Alexander, International Monetary Fund

Discussion: General Discussion from the Floor

2:30 P.M.
SOMERSET
Louis XIV
Ballroom

Labor's Participation in the Defense Effort
Industrial Relations Research Association

Chairman: Edward L. Cushman, Wayne University

Papers: WHAT DOES LABOR PARTICIPATION MEAN?
H. H. Bookbinder, National Production Authority

THE PROBLEMS FOR THE LABOR MOVEMENT IN LABOR PARTICIPATION

George Brooks, International Brotherhood of Pulp, Sulphite and Paper Mills Workers

Discussion: Peter Henle, American Federation of Labor
Richard Lester, Princeton University
David Truman, Columbia University
Murray Weisz, U. S. Bureau of Labor Statistics

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WILLIAM VICKREY, Columbia University, formerly tax consultant to the governor of Puerto Rico. 496 pages. \$4.75

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Saturday

2:30 P.M.
SOMERSET
Princess
Ballroom

Social Security Today
Industrial Relations Research Association

- Chairman:* E. Wight Bakke, Yale University
- Papers:* APPROACHES TO OLD AGE SECURITY: GREAT BRITAIN AND SWEDEN
Helen F. Hohman, University of Chicago
- SOCIAL SECURITY IN A PERIOD OF FULL EMPLOYMENT
Eveline M. Burns, Columbia University
- Discussion:* Floyd A. Bond, Pomona College
John W. McConnell, Cornell University
Glenn W. Miller, Ohio State University
H. M. Somers, Haverford College

3:30-5:30 P.M.
COPLEY-PLAZA
Sheraton Room

**The Program for the Future Development of
the Section on Training**
American Statistical Association

- Chairman:* George E. Nicholson, University of North Carolina
- Discussion:* Howard L. Jones, Illinois Bell Telephone Company
William G. Madow, University of Illinois
A. M. Mood, The RAND Corporation
H. V. Roberts, University of Chicago
Helen Walker, Columbia University

3:30-5:30 P.M.
COPLEY-PLAZA
Parlor B

Practical Application of Industrial Statistics
American Statistical Association

- Chairman:* Paul Olmstead, Bell Telephone Laboratory, Murray Hill, New Jersey
- Papers:* ELECTRICAL ENGINEERING APPLICATION
A. V. Feigenbaum, General Electric Company
- INTERFERENCE FAILURES IN SUB-ASSEMBLIES
Arthur Bender, Delco-Remy Division, General Motors
- FAILURES RELATING TO MEASUREMENT RELIABILITY
Thomas A. Budne, A. R. Squibb & Sons

Saturday

3:30-5:30 P.M.
COPLEY-PLAZA
Foyer

The Use of the Range
Joint Session: A.S.A., B.S. (ENAR)

Chairman: Lila Knudsen Randolph

Papers: APPLICATIONS OF THE NON-CENTRAL "T"
STATISTIC BASED ON THE AVERAGE RANGE
Lincoln E. Moses and George J. Resnikoff,
Stanford University

ANOTHER VIEWPOINT ON THE EFFICIENCY
OF THE RANGE IN LARGE SAMPLES
Frederick Mosteller, Harvard University,
and Joseph Berkson, Mayo Clinic

PROCESSING DATA FOR OUTLIERS AND THE
EFFECT ON ESTIMATES OF LOCATION AND
SCALE
W. J. Dixon, University of Oregon

TESTING A STRAGGLER MEAN IN A TWO-WAY
CLASSIFICATION USING THE RANGE
Jack Moshman, Oak Ridge National Lab-
oratory

Discussion: Joseph F. Daly, U. S. Bureau of the Census
William R. Pabst, Jr., Department of the Navy

3:30-5:20 P.M.
COPLEY-PLAZA
State Suite

Contributed Papers—III
Institute of Mathematical Statistics

Chairman: E. B. Mode, Boston University

Papers: SUFFICIENT STATISTICS AND SELECTION
DEPENDING ON THE PARAMETER
D. A. S. Fraser, University of Toronto

ON A PROBLEM SUGGESTED BY BLACKWELL
(PRELIMINARY REPORT)
Charles Stein, University of Chicago

ON A CLASS OF INFINITELY DIVISIBLE
DISTRIBUTIONS
Gopinath Kallianpur, University of California
at Berkeley and Herbert Robbins, University
of North Carolina at Chapel Hill.

Saturday

ON SETS OF PARAMETER POINTS WHERE
IT IS POSSIBLE TO ACHIEVE SUPEREFFICI-
ENCY OF ESTIMATES

Lucien LeCam, University of California at
Berkeley

ON ESTIMATING PROB. ($Y > X$) FOR IN-
DEPENDENT X, Y

Z. W. Birnbaum, University of Washington
and Stanford University.

ALMOST SURE ESTIMABILITY OF LINEAR
STRUCTURES IN n -DIMENSIONS

T. A. Jeeves, University of California at
Berkeley.

COMPLETENESS OF THE CLASS OF ADMIS-
SIBLE DECISION PROCEDURES

Herman Rubin, Stanford University

MOMENT PROBLEM SOLUTIONS WITH
CONTINUOUS DERIVATIVES

Lionel Weiss, University of Virginia

SIGNIFICANCE CONSISTENCY OF THE BASIC
NEYMAN-PEARSON TEST. (BY TITLE).

L. M. Court, American Power Jet Company,
New York, N. Y.

4:00 P.M.
STATLER
Parlor C

Current Scene
Catholic Economic Association

Chairman: Rev. Charles B. Quirk, O. P., Providence College

Topic: PROBLEM OF A DEFENSE ECONOMY: PRES-
SURE GROUPS VS. SOCIAL JUSTICE

Speaker: Joseph C. O'Mahoney, United States Senator,
Wyoming

Discussion: Walter Froehlich, Marquette University
Rev. Jerome L. Toner, O. S. B., Saint Martin's
College

8:00 P.M.
STATLER
Parlor C

Business Meeting
Catholic Economic Association

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Selected Books of particular interest to:

American Economic Association
 American Finance Association
 American Marketing Association
 American Statistical Association
 Industrial Relations Research Association

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	Page		Page		Page
Rosenstein-Rodan, Paul N.	13,70	Simon, Herbert	42	Troxel, C. Emery	29,70
Ross, Michael	48	Singer, H. W.	70	Trueblood, Lorman C.	80
Rostow, W. W.	19	Sletto, Raymond F.	40	Truman, David	71
Rottenberg, Simon	21	Slichter, Sumner H.	45	Tukey, John	37,46,68,32
Roy, S. N.	11,12	Smith, Charles W.	45		
Rubin, Herman	22,75	Smith, George Cline	31	Ulin, Robert P.	64
Rucker, Allen W.	24	Smith, John A.	45	Upton, Miller	39
Rutherford, John G.	25	Smith, Shea, III	51	Urquhart, Malcolm C.	38
Ryan, Frank S.	44	Smith, Wendell R.	33		
		Smithies, Arthur	12	Veldfort, Theodore E.	20
Salant, Walter S.	14	Snyder, Eleanor M.	51	Viner, Jacob	12
Samuelson, Paul A.	22,54,30	Snyder, Richard M.	31	Vining, Rutledge	45,20,54,32
Sanders, Barkev S.	67	Sobel, Milton	23	Votaw, D. F., Sr.	54
Saulnier, R. J.	51	Solow, Robert	68		
Saurino, Ben	39	Solterer, Josef	66	Wakaberg, Joseph	47
Schelling, Thomas C.	38	Somers, Harold M.	38,15	Walker, Helen	73
Schiff, J. S.	34	Somers, Herman M.	73	Walker, Q. Forrest	53
Schmid, Calvin F.	25	Spiegelman, Mortimer	61	Wallace, Donald H.	19
Schmidt, Emerson P.	25	Springer, Melvin D.	23	Wallich, Henry C.	53,70
Schoenbaum, E.	71	Spurr, William A.	32	Wallis, W. A.	47,15
Schreder, Harold X.	13	Stein, Charles	22,74	Walsh, John E.	23,81
Schultz, Theodore W.	12	Steinberg, Joseph	47	Warren, Robert A.	24
Schwartz, Edward E.	22,61	Stephan, Frederick F.	47,54	Watkins, Julian L.	44
Schwartz, Harry S.	20	Stier, Howard L.	33	Weiss, Lionel	75
Schweiger, I.	51	Stine, O. C.	27	Weiss, Murray	71
Seal, H. L.	61	Stock, J. S.	80	Wells, Orris V.	27
Seder, Leonard A.	25	Stouffer, Samuel A.	67	Welsh, Edward C.	14
Seelye, Alfred L.	44	Stowman, Knud	40	Wernette, J. Philip	20
Selekman, Benjamin M.	61	Strayer, Paul J.	38	Weston, J. Fred	31
Seltzer, Lawrence H.	49,24	Stroud, C. P.	27	Whittemore, Lawrence F.	19
Sewell, William H.	40	Suits, D.	13	Whittlesey, C. R.	60
Shanin, Dorian	25			Wilkerson, Hugh T. C.	32
Shapiro, Eli	39	Taeuber, Conrad	65	Wilkes, Robert J.	24
Sharfman, I. L.	61	Tait, Robert C.	64	Wilks, Samuel S.	41,46,32
Sharp, Mitchell W.	64	Taylor, George W.	61	Williams, John H.	34
Shaw, Edward S.	70	Taylor, Overton H.	19	Williams, Josephine	47
Sheehan, John H.	66	Taylor, W. F.	32	Wollman, Nathaniel	20
Shepherd, R. W.	42	Teicher, Henry	23	Woodbury, Max A.	29
Shields, Murray	45	Teichroew, Dan	14	Worcester, Jane	41
Shimbel, A.	68	Tepping, Benjamin J.	46	Working, E. J.	12,15
Shiater, Joseph	59	Terry, Milton E., Jr.	11	Wright, C. Ashley	53
Shoup, Carl S.	38	Thomas, Dorothy S.	67	Wright, David M.	38
Shrinkhande, S. S.	11,12	Thomas, Woodlief	29		
Shryock, Henry S.	25	Thomasine, Sr. M.	63	Yerushalmy, J.	32
Shultz, George P.	48	Tobin, James	51,70	Yoder, Dale	38
Shute, Clyde	60	Todd, John	13	Youden, W. J.	41,21
Siegel, Irving H.	20	Tompkins, C. B.	63	Young, Louis G.	25
Siegel, Jacob S.	40,31	Toner, Rev. Jerome L.	75	Young, Ralph A.	68
Silvey, Ted F.	48	Trelogan, Harry C.	44	Youngdahl, Richard	53
		Triffin, Robert	59		

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