

# AAAS Annual Meeting : Washington, D.C.

26-31 December 1972

Registration  
(A)

## ADVANCE REGISTRATION FORM

- ☐ Enclosed is \$15 Registration Fee (Program and Convention Badge)  
☐ Enclosed is \$20 Registration Fee (including spouse) (Program and Convention Badges)  
☐ Enclosed is \$5 Young People and Student Registration Fee (Program and Convention Badge)  
☐ Enclosed is \$5 for the Program only

(Mailing date of program and badge will be 1 December)

Registrations received after 15 December will be held at the Sheraton Park AAAS Information Booth

Miss Ms. Mrs.

Dr. Mr. \_\_\_\_\_  
(Last Name) (First) (Middle Initial)

### MULTIPLE REGISTRATION:

(List full name for spouse and other registrants)

### MAILING ADDRESS:

(For receipt of Program) (Street) (City/State) (Zip Code)

### INSTITUTION OR COMPANY:

(City) (State) (Zip Code)

### CONVENTION ADDRESS:

Arrival  
date:

Departure  
date:

## PLEASE CHECK THE APPROPRIATE BOXES BELOW

### Registrant 1

1. Please check your occupational category.

- ☐ Physical Science ☐ Biological & Biomedical Science ☐ Social & Behavioral Science ☐ Engineering ☐ Other—Indicate

2. Please check the activity at which you spend the most time.

- ☐ Medical Practice ☐ Research or Development ☐ Administration ☐ Teaching or Education ☐ Other—Indicate

3. Please check the primary reason you are attending the AAAS meeting.

- ☐ To participate in the program ☐ To attend certain general sessions ☐ To attend certain specialized sessions ☐ Organizational Business ☐ Other—Indicate

4. Are you a AAAS member? ☐ Yes ☐ No

### Registrant 2 (spouse or other, if applicable)

1. Please check your occupational category.

- ☐ Physical Science ☐ Biological & Biomedical Science ☐ Social & Behavioral Science ☐ Engineering ☐ Other—Indicate

2. Please check the activity at which you spend the most time.

- ☐ Medical Practice ☐ Research or Development ☐ Administration ☐ Teaching or Education ☐ Other—Indicate

3. Please check the primary reason you are attending the AAAS meeting.

- ☐ To participate in the program ☐ To attend certain general sessions ☐ To attend certain specialized sessions ☐ Organizational Business ☐ Other—Indicate

4. Are you a AAAS member? ☐ Yes ☐ No

Mail to: American Association for the Advancement of Science, Dept. R,  
1515 Massachusetts Ave., NW, Washington, D.C. 20005

## OFFICE AND SESSION LOCATIONS

**Sheraton Park:** AAAS Headquarters Office; AAAS Registration; AAAS Information Desk; AAAS Ticket Sales Desk; AAAS Membership Recruitment; AAAS Lecture Aides; AAAS Press Headquarters; AAAS Television; National Public Radio; AAAS Council Meeting; AAAS Committee on Council Affairs (Open Hearing); Arden House Hearing; AAAS Invited Lectures and Illustrated Presentations; Science Film Theatre; AAAS Youth Council Office.  
**Symposia Topic Areas\*:** Health and Biology; Environmental Sciences; and Weather.

**Shoreham:** AAAS Registration; AAAS Information Desk; AAAS Membership Recruitment; AAAS Lecture Aides; Phi Beta Kappa Lecture; American Society of Zoologists Office; History of Science Society/Society for the History of Technology Desk.  
**Symposia Topic Areas\*:** History of Science; Science, Technology and Society; Psychological Processes; Science and Cultural Trends; and Education.

**Washington Hilton:** AAAS Registration; AAAS Information Desk; AAAS Membership Recruitment; AAAS Lecture Aides; AAAS Popular Exposition; Graduate Women in Science (Sigma Delta Epsilon) Office; Society for General Systems Research Office. **Symposia Topic Areas\*:** Learning and Human Sciences; Social Policy; Technology and Government; Growth and the Environment; International Science and Technology; and Space Science and Modern Physics.

\*See Preliminary Program for the precise hotel locations of individual symposia.

# Reservations

## HOTEL RATES\* (Per Day)

The American Association for the Advancement of Science will hold its 1972 Annual Meeting in Washington, D.C., 26-31 December. The AAAS registration desks will be located at the Sheraton Park, Shoreham, and Washington Hilton hotels. The following hotels will be used for housing:

	Hotel	Single	Double	Twin	Suites†	Parking
1)	SHERATON PARK 2660 Woodley Road, NW	\$19 \$21	\$27 \$29	\$27 \$29	\$40 and up	\$2.50 24-hour
2)	SHOREHAM 2500 Calvert Street, NW	\$19 \$21	\$27 \$29	\$27 \$29	\$40 and up	\$2.00 24-hour
3)	WASHINGTON HILTON 1919 Connecticut Avenue, NW	\$20 \$22	\$28 \$30	\$28 \$30	\$80 and up	\$2.50 24-hour

**STUDENT RATES** A limited number of rooms are available to students at special rates:

1)	SHERATON PARK and	\$12 per person (two persons per room) \$10 per person (three persons per room)
2)	SHOREHAM	\$ 8 per person (four persons per room)
3)	WASHINGTON HILTON	\$12 per person (two persons per room) \$10 per person (three persons per room)

\* D.C. Room Tax, 5 percent; \$4 to \$9 additional charge for cots and rollaway beds. If rate specified is not available, the next highest rate will be assigned.

† One-bedroom parlor suites; rates for larger suites available upon request.

## HOTEL RESERVATIONS FORM

Mail to: AAAS Housing Bureau  
1129 20th Street, NW  
Washington, D.C. 20036

CHOICE OF HOTEL: First \_\_\_\_\_ Second \_\_\_\_\_ Third \_\_\_\_\_

ROOM: ☐ Single ☐ Double ☐ Twin ☐ Suite ☐ Student Preferred Rate \$ \_\_\_\_\_

ARRIVAL: Date \_\_\_\_\_; \_\_\_\_\_ a.m. \_\_\_\_\_ p.m.

Be sure to list definite arrival and departure date and time. Hotel reservations will be held only until 6 p.m. unless otherwise specified.

DEPARTURE: Date \_\_\_\_\_; \_\_\_\_\_ a.m. \_\_\_\_\_ p.m.

## NAMES AND ADDRESSES OF ALL OCCUPANTS OF ROOMS

(Reservations received after 11 December cannot be assured)

Name \_\_\_\_\_ Name \_\_\_\_\_

Address \_\_\_\_\_ Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Name \_\_\_\_\_ Name \_\_\_\_\_

Address \_\_\_\_\_ Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Individual Requesting Reservations \_\_\_\_\_

# AAAS Annual Meeting

Washington, D.C.

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## PRELIMINARY PROGRAM

General Chairman: S. Dillon Ripley  
(Secretary, Smithsonian Institution)

HOTELS: Sheraton Park .....	SP
Shoreham .....	SH
Washington Hilton .....	WH

## AAAS INVITED LECTURES

- Invited Lecture I (26 Dec., SP)  
Jerome Kagan (Professor, Department of Social Relations, Harvard University).  
*Cross Cultural Perspectives on Early Development*
- Invited Lecture II (27 Dec., SP)  
Wolf von Eckardt (Architectural Critic, Washington Post).  
*Topic to be announced.*
- Invited Lecture III (28 Dec., SP)  
*Speaker and topic to be announced.*
- Address of the Retiring AAAS President (28 Dec., SP)  
Mina Rees (President Emeritus, Graduate Division, City University of New York).  
*Topic to be announced.*
- George Sarton Memorial Lecture (28 Dec., SH)  
Thomas S. Kuhn (Professor of the History of Science, Princeton University).  
*Mathematical versus Experimental Tradition in the Development of Physical Science.*
- Invited Lecture IV (29 Dec., SP)  
René Dubos (Professor Emeritus, Rockefeller University).  
*Humanizing the Earth.*
- Phi Beta Kappa Lecture (29 Dec., SH)  
*Speaker and topic to be announced.*
- Invited Lecture V (30 Dec., SP)  
Stephen Toulmin (Provost, Crown College, University of California, Santa Cruz).  
*... And Shall We Have Science for Ever and Ever?*

## AAAS ILLUSTRATED PRESENTATIONS

- Illustrated Presentation I (26 Dec., SP)  
*To be announced.*
- Illustrated Presentation II (27 Dec., SP)  
Jerome Weingart (Environmental Quality Laboratory, Pasadena, California).  
*Harnessing the Sun.*
- Illustrated Presentation III (29 Dec., SP)  
Ryan W. Drum (Fairhaven College).  
*The Aquatic Ecology of a Single Cell (Diatoms).*

- Illustrated Presentation IV (30 Dec., SP)  
Tom Frost (Mountain Photography, Ventura, California).  
*Adventure in Exploration: The South Wall of Annapurna 1970.*

## EDUCATION AND THE HUMAN SCIENCES

- Anthropological Perspectives of Educational Phenomena (26 Dec., WH).  
Arranged by Howard F. Hjelm and Lloyd K. Johnson (U.S. Office of Education).
- Turning on With Science: Educational Programs for Minorities (27 Dec., WH).  
Arranged by Rhoda Baruch and Walter Knight (AAAS Committee on Minorities in Science).
- Discovering Precocious Talent in Mathematics and Physical Science (28 Dec., SH).  
Arranged by Julian C. Stanley (Johns Hopkins University).
- Sex Role Learning in Childhood and Adolescence (28-29 Dec., SH).  
Arranged by Dale B. Harris (Pennsylvania State University).
- Chairman's Symposium: Human Learning Capacity in Neurobiological Perspective (28-29 Dec., WH).  
Arranged by S. Dillon Ripley (Secretary, Smithsonian Institution).  
Physiological Substrates for Learning; Comparative Neuro-Ethology; Biological Capacity for Communicative Behavior; What Can the Neurosciences Say About the Design of the Human Environment?
- Science Education in Traditional Cultures (28 Dec., SH).  
Arranged by Park Teter (Princeton University).
- Education in the Developing World—Middle East (29 Dec., WH).  
Arranged by Frank X. Sutman (Temple University).
- Assessing Achievement in School Science (29 Dec., WH).  
Arranged by J. David Lockard (University of Maryland).
- Educational Achievement and Social Indicators (30 Dec., SH).  
Arranged by I. Garfield and R. Boyd Ladd (U.S. Office of Education).

## HISTORY, PHILOSOPHY, AND SOCIOLOGY OF SCIENCE

- **Genetics Since Mendel (27 Dec., SH).**  
Arranged by Garland E. Allen (Washington University).
- **Copernicus—Part II (28 Dec., SH).**  
Arranged by Raymond J. Seeger (Secretary, AAAS Section on History and Philosophy of Science).
- **Mid-Nineteenth Century American Geology (28 Dec., SH).**  
Arranged by George W. White (University of Illinois).
- **Relations of American and European Geology Before 1860 (28 Dec., SH).**  
Arranged by John C. Greene (University of Connecticut).
- **Joseph Henry Symposium I: Physical Thought in the Early Nineteenth Century (29 Dec., SH).**  
Arranged by Nathan Reingold (Smithsonian Institution).
- **Case Studies on the Relationship Between Experiment and Theory in Science (30 Dec., SH).**  
Arranged by Stanley Goldberg (Hampshire College).

## MATHEMATICS AND SYSTEMS

- **Methods of Social Indicator Analysis (26 Dec., SH).**  
Arranged by Kenneth C. Land (Russell Sage Foundation).
- **Exploratory Data Analysis (27 Dec., SH).**  
Arranged by John W. Tukey (Bell Laboratories).
- **Statistical Methods and Problems in Ecological and Environmental Studies (27 Dec., WH).**  
Arranged by Stephen E. Fienberg (University of Chicago).
- **Advances Toward Better Computing for Researchers (27 Dec., SH).**  
Arranged by Gordon R. Sherman (National Science Foundation).

## PHYSICAL UNIVERSE

- **The Contributions of the National Accelerator Laboratory to Physics (26 Dec., WH).**  
Arranged by E. Goldwasser (National Accelerator Laboratory).
- **Recent Advances in Space Physics and Astrophysics (27–28 Dec., WH).**  
Arranged by Herbert Friedman (Naval Research Laboratory) and George B. Field (Harvard College Observatory).
- **Two Lectures: Physics 1982; Physics—The Keystone to Science (28 Dec., WH).**  
Arranged by Rolf M. Sinclair (National Science Foundation).
- **Copernicus . . . and Modern Dynamical Astronomy—Part I (28 Dec., WH).**  
Arranged by P. K. Seidelman (U.S. Naval Observatory).

## AAAS Annual Meeting

- **From Abstraction to Reality: Two Revelations—The Laser and Superconductivity (29 Dec., WH).**  
Arranged by Rolf M. Sinclair.
- **NASA's Planetary Research (29 Dec., WH).**  
Arranged by S. I. Rasool (NASA Headquarters).
- **Redshift of Galaxies and Quasars (30 Dec., WH).**  
Arranged by George B. Field (Harvard College Observatory).

## LIVING WORLD

- **Genetic-Physiological Approaches to Animal Improvement (27 Dec., SP).**  
Arranged by R. E. Hodgson (Agricultural Research Service, U.S. Department of Agriculture).
- **Mechanisms of Dormancy and Developmental Arrest (27 Dec., SP).**  
Arranged by Mary E. Clutter (Yale University).
- **Ecology and Evolution of Social Organization (27–28 Dec., SP).**  
Arranged by E. M. Banks and M. F. Willson (University of Illinois).
- **Genetic Vulnerability of Crops (27 Dec., SP).**  
Arranged by James G. Horsfall (University of California, Davis).
- **Models for Transport in Biological Systems (28–29 Dec., SP).**  
Arranged by W. E. Brown (American Dental Association Research Unit, National Bureau of Standards).
- **Survival in Aquatic Habitats (29 Dec., SP).**  
Arranged by Willis King (U.S. Fish and Wildlife Service).

## HEALTH, BEHAVIOR, AND SOCIAL PROCESSES

- **Behavior Control (27 Dec., SH).**  
Arranged by Daniel Callahan (Institute of Society, Ethics and the Life Sciences).
- **Pragmatic Aspects of Plastic and Graphic Modalities of Semioses: Multiple System Processes of Communication Viewed in Context (27 Dec., SP).**  
Arranged by William P. McLean (University of Illinois) and Anthony Leeds (Boston University).
- **Parameters Influencing Drug-Interactions (28 Dec., SP).**  
Arranged by Linwood F. Tice (Philadelphia College of Pharmacy and Science).
- **Genetics and Human Disease (28 Dec., SP).**  
Arranged by Victor A. McKusick (Johns Hopkins University).
- **Aggression and Violence: Perspectives for Study and Intervention (29 Dec., SH).**  
Arranged by John E. Exner (International Organization for the Study of Group Tensions).

- Chlorpromazine: The Use of Drugs in Mental Illness, 1952–1972 (29 Dec., SP).  
Arranged by Judith P. Swazey (Committee on Brain Sciences, National Academy of Sciences).
- Regional and National Communication Networks in Health Care Delivery and Biomedical Sciences (29 Dec., SP).  
Arranged by N. Henry Moss (American Medical Writers Association).
- Interdisciplinary Approaches to Community Health (30 Dec., SP).  
Arranged by Mirta T. Mulhare (University of Pittsburgh)
- The Concentration of Social Power in Human Society (30 Dec., SH).  
Arranged by Richard N. Adams (University of Texas).
- Chronologies in New World Archeologies (30 Dec., SH).  
Arranged by R. Taylor (University of California, Riverside).

## ENVIRONMENTAL SCIENCES

- Advances in Integrated Research—Experimentation and Modeling in the Eastern Deciduous Forest Biome, IBP (27 Dec., SP).  
Arranged by Robert L. Burgess (Oak Ridge National Laboratory).
- Temperate Climate Forestry and the Forest Ecosystem: An Environmental Issue? (28 Dec., SP).  
Arranged by Michael W. Corr (AAAS Committee on Environmental Alterations).
- Changing the Weather (28 Dec., SP).  
Arranged by Earl G. Droessler (North Carolina State University).
- Commonalities of Significance to Both Geologists and Biologists (28 Dec., SP).  
Arranged by L. Basil Slobodkin (State University of New York, Stony Brook).
- Must We Limit Economic Growth? (28–29 Dec., WH).  
Arranged by S. Fred Singer (University of Virginia).  
The Consequences of Growth; Energy: A Key Factor in Economic Growth.
- New Approaches to Global Weather: GARP (The Global Atmospheric Research Program) (29 Dec., SP).  
Arranged by W. O. Roberts and P. E. Merilees (University Corporation for Atmospheric Research).
- Man-Environment Relations and Health (29–30 Dec., SP).  
Arranged by A. H. Esser and V. R. Hannon (Association for the Study of Man-Environment Relations).  
Cultural Codes and Sociocultural Illness; Transactional Dynamics and Emotional Distress; Ecology of Behavior and Epidemiology of Illness; Planning for the Future: How Can We Modify Health?
- Atlantic Coastal Zone (29–30 Dec., SP).  
Arranged by Bruce W. Nelson (University of South Carolina).

## TECHNOLOGY

- Bio-cybernetics and the Assessment of Technological Advancement (26–27 Dec., SH).  
Arranged by Roy Herrmann (Center for Cybernetic and Interdisciplinary Research).
- EROS and ERTS: Spacecraft and Aircraft Remote Sensing of the Environment (27 Dec., SP).  
Arranged by William A. Fischer (U.S. Geological Survey).
- Space Shuttle Payloads (27–28 Dec., WH).  
Arranged by George W. Morgenthauer (Martin Marietta Corporation, Denver).  
The Space Shuttle System and Its Capability; Applications Payloads for Space Shuttle; Space Shuttle Cost-Effectiveness Studies; Panel Discussion on Space Shuttle Contributions to Technological, Economic, Political, and Defense Goals.

- The Limits to Growth of Technology (30 Dec., WH).  
Arranged by Glen P. Wilson (U.S. Senate Committee on Aeronautical and Space Sciences).

## SCIENCE AND SOCIAL NEEDS

- A Rational Basis for Planning Medical Science Education (26 Dec., SP).  
Arranged by Richard H. Kessler (Northwestern University Medical School).
- Is Social Experimentation a Practical Way to Develop Social Programs? (26–27 Dec., WH).  
Arranged by Frederick Mosteller (Harvard University) and Alice M. Rivlin (Brookings Institution).
- Facts and Fiction With Regard to Sex Differences (27 Dec., WH).  
Arranged by Elizabeth L. Scott (University of California, Berkeley).
- Research on Career Development in the Health Professions (27 Dec., SP).  
Arranged by Lois K. Cohen (National Institutes of Health) and Ayres D'Costa (Association of American Medical Colleges).
- Property Rights and Land Use Controls: Techniques and Institutions for Achieving Public Interests in Management of Land Resources (27 Dec., WH).  
Arranged by Norman Wengert (Colorado State University).
- The National Environmental Policy Act: At the Interface of Law and Environmental Science (27–28 Dec., WH).  
Arranged by James W. Curlin (Environmental Policy Division, Congressional Research Service).

Implementation of the Act; Systematic Analysis of Environmental Impacts; Developing Systems for Impact Analysis.

- **Affirmative Action Programs—Their Impact on Women Today (27 Dec., WH).**  
Arranged by Hope E. Hopps (Department of Health, Education, and Welfare).
- **Educational Implications of Zero Growth (27 Dec., WH).**  
Arranged by Wayne W. Welch (University of Minnesota).
- **Research Applied to National Needs (29 Dec., SH).**  
Arranged by H. E. Carter (University of Arizona) and R. L. Bisplinghoff (National Science Foundation).
- **The Scientific Professional Society—New Societal Roles (29 Dec., SP).**  
Arranged by Richard A. Scribner (American Association for the Advancement of Science).
- **Women and Ethnic Minorities in Science and Technology: The Role of Professional Societies (29 Dec., SH).**  
Arranged by Warren M. Washington (University Corporation for Atmospheric Research).
- **Scientists Face the Social Implications of Their Work—Above the Sound and Fury? (30 Dec., SH).**  
Arranged by Barbara G. Rosenkrantz (Harvard University).
- **Historical Sociology of Science (30 Dec., SH).**  
Arranged by Harriet Zuckerman (Columbia University).

#### SCIENCE POLICY—THE ANATOMY OF DECISION

- **Oceans Policy-Making by Science, Government, and the Public (27 Dec., U.S. Department of State).**  
Arranged by Grant Hilliker (Ohio State University).
- **Community Information Exchange (28 Dec., WH).**  
Arranged by Chandler H. Stevens (Rensselaer Polytechnic Institute).
- **Scientists in the Legal System: Tolerated Meddlers or Essential Contributors? (29 Dec., WH).**  
Arranged by William A. Thomas (Oak Ridge National Laboratory).
- **Psychology of Policy-Making (29 Dec., WH).**  
Arranged by Raymond A. Bauer (Harvard University).
- **An Environmental Impact Statement—The Alaska Pipeline (30 Dec., WH).**  
Arranged by Gordon A. Enk (Institute of Man and Science).

#### SCIENCE AND SOCIAL INSTITUTIONS

- **Science Reporting Via Television and How Can It Be Improved? (27 Dec., SP).**  
Arranged by Eugene H. Kone (Rockefeller University).

## AAAS Annual Meeting

- **Organizing for International Research (28 Dec., WH).**  
Arranged by R. L. Lovvorn (Cooperative State Research Service, U.S. Department of Agriculture).
- **Minorities in Physical Science (28 Dec., SH).**  
Arranged by Martin A. Paul (National Academy of Sciences—National Research Council).
- **Non-Formal Education (28 Dec., WH).**  
Arranged by Gordon Swanson (University of Minnesota).
- **Institutions for the Application of Science to Social Needs (28 Dec., SH).**  
Arranged by John C. McKinney (Duke University).
- **Alternative Computer Systems in Instruction (28 Dec., WH).**  
Arranged by Duncan Hansen (Florida State University).
- **Where Does Science Education Begin? (29 Dec., SH).**  
Arranged by Eugene Garfield and Morton V. Malin (Institute for Scientific Information).
- **The Role of Science in the United Nations System (29 Dec., WH).**  
Arranged by Arthur K. Solomon (Harvard University).
- **Section K Vice Presidential Address and Methods of Public Policy Studies (29 Dec., WH).**  
Arranged by Harvey M. Sapolsky (Massachusetts Institute of Technology).
- **Prison Research (30 Dec., WH).**  
Arranged by Lowell H. Hattery (American University).

#### SUPPORT FOR SCIENCE—A FOCUS FOR PUBLIC POLICY

- **Federal R & D and Universities: Impacts of Funding and Policy on Institutional Patterns (27 Dec., SH).**  
Arranged by Rodney W. Nichols (Rockefeller University).
- **The Stimulation and Control of Technology by Government (28 Dec., WH).**  
Arranged by Joel D. Goldhar (Rensselaer Polytechnic Institute of Connecticut) and Don E. Kash (University of Oklahoma).
- **RESA Procter Prize and Annual Address: Federal Support of Commercially Relevant R & D, by Lewis M. Branscomb (29 Dec., WH).**  
Arranged by John M. Evans, Jr. (National Bureau of Standards) and Jordan D. Lewis (Battelle Memorial Institute).
- **Can We Afford the Research Library? (29 Dec., WH).**  
Arranged by Gerard Salton (Cornell University).

## SCIENCE IN THE CULTURAL SETTING

- **Civilizations as Psychohistory and the Modern Dilemma** (28 Dec., SH).  
Arranged by Robert L. Hall (New School for Social Research).
- **Visual Perception of Modern Art** (28–29 Dec., Corcoran Gallery of Art).  
Arranged by Gene Baro (Corcoran Gallery of Art) and Rudolf Arnheim (National Center for Experimental Television).
- **Science and the New Challenge to Rationality** (29 Dec., SH).  
Arranged by Gerald Holton (Harvard University).
- **Psychohistory: A Psychoanalytic Study** (30 Dec., SH).  
Arranged by Herman M. Serota (University of Chicago).

## PROGRAMS OFFERED BY WASHINGTON AREA ESTABLISHMENTS

- **Children's Hospital of the District of Columbia Chalones**—A New Approach to Mitotic Control (date to be announced). Arranged by John C. Houck (Director of Research).
- **National Archives and Records Service**  
Declassification of Federal Records (date to be announced). Arranged by James Rhodes (Archivist of the United States).
- **National Cancer Institute**  
The National Cancer Program and International Aspects (27 Dec.). Arranged by George K. Chacko (Operations Research Society of America).
- **National Museum of History and Technology**  
Copernicus—Part I (27 Dec.). Arranged by Raymond J. Seeger (Secretary, AAAS Section L).
- **Historical Experiments in Physics** (29 Dec.) Arranged by Otto Mayr (Smithsonian Institution).
- **U.S. Armed Forces Institute of Pathology (Museum)**  
Geographic Pathology (27 Dec.). Arranged by Murray Angevine (Associate Director—Research, AFIP).
- **U.S. Naval Observatory**  
Copernicus . . . and Modern Dynamical Astronomy—Part II (29 Dec.). Arranged by P. K. Seidelman.

## SELECTED COMMITTEE AND SECTION PROGRAMS

### Youth Council

- **Workshop on Career Mobility** (27 Dec., SP).  
Arranged by H. Raverché (National Bureau of Standards).

### Anthropology (H)

- **Scope, Methods, and Current Issues in the Comparative Study of Civilizations** (29 Dec., SH).  
Arranged by Vytautas Kavolis (Dickinson College).

- **Civilizations as Systems** (29 Dec., SH).  
Arranged by C. P. Wolf (Brown University).
- **The Teaching of Comparative Civilizations** (30 Dec., SH).  
Arranged by Cecil Orchard (Eastern Kentucky University).
- **Contributed Scientific Papers** (30 Dec., SH).  
Arranged by Anthony Leeds (Boston University).

### Pharmaceutical Sciences (Np)

- **Vice Presidential Address** (27 Dec., SP).  
Pharmacy's Expanding Role in Health Care, by Linwood F. Tice (Philadelphia College of Pharmacy and Science).
- **Hospital Pharmacy Program** (27 Dec., SP).  
Arranged by Joseph A. Oddis (American Society of Hospital Pharmacists).
- **Distinguished Lecture** (27 Dec., SP).  
Aspirin—New Look at an Old Drug, by Gerhard Levy (School of Pharmacy, State University of New York).

- **Contributed Scientific Papers** (29 Dec., SP).  
Arranged by John Autian (University of Tennessee).

### Information and Communication (T)

- **Vice Presidential Address** (28 Dec., WH).  
The Communications Revolution: Some Second Thoughts, by Andrew A. Aines (National Science Foundation).

## AFFILIATED SOCIETIES— SPECIALIZED PROGRAMS

- **American Nature Study Society**  
Building Environmental Understanding (27–29 Dec., WH). Arranged by Helen R. Russell (Consultant and Author, Jersey City).
- **American Orthopsychiatric Association**  
The Future of Collective Violence: Societal and International Perspectives (28–29 Dec., WH). Arranged by Joseph Ben-Dak (University of Lund, Sweden).
- **American Society of Criminology**  
Crime Prevention—Heredity and Environment Revisited (27 Dec., WH). Arranged by Nicholas N. Kittrie (American University Law School).
- **American Society of Zoologists/Division of Comparative Endocrinology**  
Comparative Aspects of the Endocrine Pancreas (28 Dec., SP). Arranged by I. Alden Macchi (Boston University).

The Current Status of Fish Endocrine Systems (29–30 Dec., SP). Arranged by Martin P. Schreibman (Brooklyn College) and Peter K. T. Pang (Yale University).

- **American Society of Zoologists/Division of Comparative Physiology and Biochemistry**  
Influence of the Environment on Respiratory Function (29–30 Dec., SP). Arranged by Alan G. Heath (Virginia Polytechnic Institute and State University) and Charlotte Mangum (College of William and Mary).

## A|A|A|S| Annual Meeting

- **American Society of Zoologists/Division of Developmental Biology**  
Growth and Development of the Cnidaria (26–28 Dec., SP). Arranged by Richard L. Miller (Temple University).

The Role of RNA in Development (28–30 Dec., SP). Arranged by Mann-Chiang Niu (Temple University).

Factors Controlling Cell Shape during Development (29–30 Dec., SP). Arranged by S. Robert Hilfer (Temple University) and Brian S. Spooner (Kansas State University).

- **American Society of Zoologists/Division of Ecology**  
Spatial Heterogeneity and Ecological Design (27 Dec., SP). Arranged by William E. Cooper (Michigan State University).

- **American Society of Zoologists/Division of Vertebrate Morphology**  
Vertebrate Sound Production (27 Dec., SH). Arranged by P. F. A. Maderson (Brooklyn College) and A. S. Gaunt (Ohio State University).

- **American Speech and Hearing Association**  
The Speech Problems of the Patient with Cleft Palate: A Multidisciplinary Approach to the Diagnosis and Treatment of a Major Communication Disorder (28 Dec., SH). Arranged by Martin F. Schwartz (Temple University).

- **Association of Academies of Science**  
Rational Use of Scientific and Technical Manpower (27 Dec., SP). Arranged by Glenn W. Stewart (University of New Hampshire).

- **Beta Beta Beta Biological Society**  
Social Applications of Genetic Knowledge (28 Dec., SP). Arranged by E. G. Stanley Baker (Drew University).

- **History of Science Society**  
American Psychology: 1875–1925 (28 Dec., SH). Arranged by Michael M. Sokal (Worcester Polytechnic Institute).

The Place of the History of Life and Medical Sciences in Undergraduate Education (28 Dec., SH). Arranged by Raymond J. Seeger (History of Science Society).

Buffon's Role in Eighteenth Century Science (30 Dec., SH). Arranged by Paul L. Farber (Oregon State University).

Scientists Go to Sea: Voyages of Scientific Exploration in the Nineteenth Century (30 Dec., SH). Arranged by Harold L. Burstyn (Carnegie-Mellon University).

- **Metric Association**  
The Practicalities of Metrication (29 Dec., WH). Arranged by A. G. McNish (National Bureau of Standards).

- **National Council of Teachers of Mathematics**  
Some International Aspects of Mathematics Education (28 Dec., WH). Arranged by Isabelle P. Rucker (Virginia State Department of Education).

- **National Speleological Society**  
Biogeography of Appalachian Cavernicoles (29 Dec., SP). Arranged by John R. Holsinger (Old Dominion University) and David C. Culver (Northwestern University).

- **Parapsychological Association**  
Understanding Parapsychological Phenomena: A Survey of Four Possible Areas of Integration (29 Dec., WH). Arranged by R. L. Morris (Psychical Research Foundation).

- **Society for General Systems Research**  
World Modeling (27–29 Dec., WH). Arranged by Richard F. Ericson (George Washington University).

- **Society for the History of Technology**  
The Independence of Simultaneous Invention (27 Dec., SH). Arranged by Otto Mayr (Smithsonian Institution).  
Historiography of Technology (28 Dec., SH). Arranged by Otto Mayr.

The Development Phase of Technological Change (28 Dec., SH). Arranged by Thomas P. Hughes (Southern Methodist University).

Man against Machine: Antitechnological Sentiments and Movements in History (29 Dec., SH). Arranged by Otto Mayr.

Joseph Henry Symposium II: Applications of Electrical Science (29 Dec., SH). Arranged by James E. Brittain (Georgia Institute of Technology).

- **Society for the Scientific Study of Religion**  
The Sociology of Religion: A Methodological Assessment (27 Dec., WH). Arranged by Jeffrey K. Hadden (University of Virginia).

The following Affiliated Societies have scheduled Contributed Research Paper sessions:

American Junior Academy of Science (27–28 Dec., SP).

American Mathematical Society/Society for Industrial and Applied Mathematics (30 Dec., WH).

American Society of Zoologists (ASZ):

ASZ/Division of Comparative Endocrinology (27 Dec., SH; 30–31 Dec., SP).

ASZ/Division of Comparative Physiology and Biochemistry (27–31 Dec., SH).

ASZ/Division of Developmental Biology (26–28 Dec., SH; 29 Dec., SP; 30–31 Dec., SH; 31 Dec., SP).

ASZ/Division of Ecology (28–29 Dec., SH).

ASZ/Division of Invertebrate Zoology (27 Dec., SH; 28 Dec., SP).

ASZ/Division of Systematic Zoology (29–30 Dec., SP).

ASZ/Division of Vertebrate Morphology (28–29 Dec., SH).

Animal Behavior Society (28–30 Dec., SP).

Ecological Society of America (30 Dec., SP).

History of Science Society (28–29 Dec., SH).

Society for the History of Technology (30 Dec., SH).