The theme for the forthcoming AAAS Annual Meeting in Washington is "Science and Technology: New Tools, New Dimensions." In previous issues of Science this month (2 and 16 December), we have listed those symposia for the Meeting dealing with developments in the natural and social sciences, including those which deal with the "Tools of Science," the theme of our exhibit. Listed below are the 47 symposia in the areas of science policy and education, many of which attempt to define the dimensions of science, its limits vis-à-vis governments, businesses, and the public at large, as well as the internal limits built into its very structure. Some of the specific areas in which these limits show themselves are also considered in the General Interest sessions (listed in the 2 December issue), as well as in the various sessions devoted to the specific sciences.

Read through this material and that presented earlier; we are sure that you will find a large amount not only of interest to you but of sufficient importance to warrant your attendance at the Meeting. Reserve your place early; fill in and return the housing and registration forms at the end of the listing.

—ARTHUR HERSHEYAN

13. Methodology of Science


Andrew Vazsonyi, William T. Ziemba, Harlan D. Mills.

Limits on Scientific Progress (16 Feb., SA): Controversies, completeness, limits of growth, limits of science.
Nicholas Rescher, Eugene P. Wigner, Laurens Laudan, Richard Schlegel, Mario Bunge.

The Reception of Unconventional Science by the Scientific Community (16 Feb., SA): Acausality, continental drift, acupuncture, parapsychology.

Replicability and Experimenter Influence (17 Feb., SA): Quantum mechanics, behavioral and parapsychological research, replicability, scientific method.

The Rhetoric and Language of Science (17 Feb., SA): Implied audience, technology, neutral description.

14. Scientific Freedom and Responsibility

Appraising Peer Review (13 Feb., SA): NIH, citation data, NSF.

Participation and Expertise in a Democratic Society (13 Feb., SA): Citizens court, science court, political actor, federal agencies, European countries.
Dorothy W. Nelkin, Sheldon Krimsky, Allan C. Mazur, Jerome E. Milch, Daniel S. Metlay.

Science and the "Isms" of the 20th Century (14 Feb., SA): Marxism, fascist state, Nazi Germany, Kapitza and Sakharov.

Whistle-Blowing and Scientific Responsibility: The Management of Technical Disson (15 Feb., SA): Regulatory agencies:

HOTEL CODES: Sheraton Park . . . SP; Shoreham Americana . . . SA.
FDA, HEW, NRC; administrator's congressional and reviewer's perspective; nuclear safety; scientific dissent.

Regulation of Scientific Inquiry: Societal Concerns with Research (16 Feb., SA): Need for regulation, ethical dilemmas, value conflicts, secrecy and the individual, privacy regulations, human subject accountability and power.


15. Education and Opportunities

Issues in Science Education (13, 14, and 15 Feb., SP): Public education, impact of legislation, policies, NSF curriculum programs, research.

Eugene H. Kone, George Alexander, Daniel S. Greenberg, Peter Gwynne, Robert Bazell, Ira Flatow.

Meeting Educational Needs Through Broadcasting Satellites (14 Feb., SP): NASA satellites, regional medical education, graduate level and continuing education, Appalachian, public services.

Communication with Science's Publics: Prerequisite to Public Support (14 Feb., SP): Interpersonal linkage, changing perceptions, scientific hubris, consumers, reporters and the establishment.
Harold F. Osborne, Philip H. Abelson, Albert Rosenfeld, Alton L. Blakeslee, Lewis Thomas, Michael J. O'Neill.

Early Intervention: Matching Programs to Children (15 Feb., SP): Delivery systems, long-range effects, preschool attendance.

Rayna D. Green, Eliot Wigginton, Ubratan D'Ambrosio, Alan Goodman, Mary E. Bluemle.

Jack Martin, Wayne E. Fortunato-Schwandt, Roger R. Revelle, Pat Marx, Ronald L. Mace, John Wodatch.

Post–High School American Youth—Results from Analyses of the National Longitudinal Survey of the High School Class of 1972 (16 Feb., SP): Postsecondary education, work, female participation, financial aid, access to higher education.

Problems and Solutions—Science Education for the Deaf (16 Feb., SP): Elementary and high school science, college programs, among hearing students.

Science and the Needs of the Handicapped (17 Feb., SP): Research, education, and counselling needs; technology needs, assessment, diffusion, and transfer.

Models of Learning and Their Implications for Science Education (17 Feb., SP): Object-person dichotomy, information processing, social factors, mass media, future environments, limits on knowledge.

16. Policy Development

Assessment of Technological Risk (13 Feb., SP): Pharmaceutical, regulatory agencies and Congress, the Judiciary.

The Technical Basis for Regulatory Decision-Making (13 Feb., SP): Health, safety, and environmental matters; technical, economic, political, and social considerations.

Bureaucratic Maladies and Remedies (14 Feb., SP): Discontents, decentralization, competition, policy research and analysis, political control.

The State of Academic Science (14 Feb., SP): NSF report, basic research.
Harvey M. Sapolsky, Carl Kayser, Bruce L. R. Smith, Joseph J. Karlesky, Albert H. Teich, Harvey Brooks, Sanford A. Lakoff.

Methodological Issues in Technology Assessment (15 Feb., SP):
Context, strategy, methods, integrating technology assessment.
The Influence of Product and Process Regulation on Technological Change (15 Feb., SP): Long- and short-term impacts, innovation in industry, technological change and innervation.


Thane Gustafson, Philip M. Smith, Thomas P. Grumbly, Jack Appleman, Patricia Evans Perry.

Energy Sources, Technological Options, and Environmental Repercussions: Spatial and Temporal Assessment (16 Feb., SA): Industrial emissions, locational adjustment, planning at the state level.

Richard F. Ericson, Russell Ackoff, Hazel Henderson, Margaret Mead, John H. Sutherland, John N. Warfield, Gerald M. Weinberg.

Advising the Congress on R & D: The OTA Role (16 Feb., SP): Institutional experiment, analytical capabilities, congressional influence, national needs.
Carolee McBe, Jerome B. Wiesner, Ellis R. Rottt, Harvey Brooks, Lewis M. Branscomb, Gilbert F. White, Charles Moshier, John Stewart.

Investing in Integrated Systems in Communications, Health, and Energy (17 Feb., SA): Electronic communication, social alternatives, system considerations.

Murray L. Wax, Bradford H. Gray, Joan Cassell, Robert F. Boruch, Joseph S. Cecile, Virginia L. Olesen, Clark C. Abt.

17. Policy Issues


Solar System Exploration: Should It Be a National Commitment? (14 Feb., SP).


Domestic and International Scientific Aspects of Extended Marine Jurisdiction (15 Feb., SP): Scientific challenge, fishery, marine and social science, coastal zone, information requirements, forensic aspects, ocean policy.


Problems and Progress in Scientific and Technical Advising for Policy Formulation at the State Level (17 Feb., SP): Strengthening capability, regional resources, Rocky Mountain States, Michigan, Maryland, Louisiana, Colorado, Iowa.
Robert W. Hanson, Edward L. Helmsinki, E. Gerald Meyer, William C. Taylor, Harry Kriemelmeyer, William B. De Ville, Floyd C. Mann.

Some Views from Inside Congress on Water, Pollution, Biohazards, and Nutrition (17 Feb., SP): Water, CO2, biohazard control, nutrition issues.
The AAAS Science Film Festival has been a feature of the Annual Meeting since 1947. Traditionally, the Festival aims to bring the best new science films available to the attention of meeting participants as well as the interested general public.

The 1978 Festival includes a wide range of films which vary both in their content and interest levels. A few major themes included are:

- The structure and recent exploration of the Universe
- The development of alternate energy sources and the utilization of the remaining fossil fuels
- The recent discoveries of the functions and capabilities of the human brain
- The preservation of wildlife and their natural habitat and other issues of conservation and ecology
- The problem faced by both the mentally and physically handicapped and the elderly in our society.

In addition to the fifty general audience and children’s films mentioned above, this year’s Festival includes a selection of eight research films spanning topics from cloud seeding and deep-ocean mining experimentation and research to data manipulation.

The Film Festival will run for five consecutive days, beginning Monday, 13 February, 10 a.m. to 3 p.m. (Friday, 10 a.m. to 1 p.m.) Research Films are scheduled as the last two films each day except Friday. Classes accompanied by a teacher are welcome; young people under the age of 10 must be accompanied by an adult. Admission is free.

A complete schedule of films and showing times will be published in the Annual Meeting Program. We hope that you will find these films exciting, innovative, and informative—plan to attend!

BARBARA GREY
Festival Coordinator

Map of Downtown Washington

LOCATIONS OF NUMBERS ON MAP
1 Sheraton Park Hotel
2 Shoreham Americana Hotel
3 Washington Hilton Hotel
4 AAAS Headquarters
5 National Geographic Society
6 National Academy of Sciences
7 National Museum of History and Technology
8 Bus Terminal
9 Union Station

23 DECEMBER 1977
ENCLOSED IS:

AAAS Member: □ $24 Single Registration Fee □ $36 Double Registration Fee (attendant and spouse)
Non-Member: □ $30 Single Registration Fee □ $42 Double Registration Fee (attendant and spouse)
Student: □ $12 Single Student Registration Fee □ $18 Double Registration Fee (student attendant and spouse)

Non-Member applying for AAAS membership* and meeting registration: (Annual membership dues include 52 issues of SCIENCE. Double membership—individual and spouse—includes one subscription to SCIENCE.)

□ $52 Single Registration and Membership ($24 registration and $28 dues)
□ $64 Double Registration and Single Membership (name of applicant ______________________________________) ($36 registration and $28 dues)
□ $76 Double Registration and Membership ($36 registration and $40 dues)

*These rates apply to USA membership only. Inquire for Canadian or Foreign rates.

Program and badge will be mailed to each registrant in mid-January. Registrations received after 20 January will be held at the AAAS Information Booth.

NAME OF REGISTRANT: ____________________________________________________________

NAME OF SPOUSE REGISTRANT: ____________________________________________________

REGISTRANT’S MAILING ADDRESS:
[For receipt of program(s), badge(s), and SCIENCE (for new applicants)]

(City/State) (Zip Code)

ADDITIONAL REGISTRANTS:
(With same mailing address. Use new form if address differs)

REGISTRANT’S INSTITUTION OR COMPANY: ________________________________

(City) (State) (Zip Code)

CONVENTION ADDRESS:
(Where you can be reached) (Hotel or Street Address)

Note: Special one-day attendance registration is available at the Meeting Registration Desks ($12 regular, $6 student).
A book containing the abstracts of the Meeting papers will also be available at the Registration Desks at an additional charge of $5.

□ Please check here if you need special services due to handicap. We will contact you prior to the meeting.

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

SURVEY OF ATTENDANTS
Annual Meeting, Washington, 12–17 February 1978

Your answers to the following questions will help us in planning future AAAS Annual Meetings. Please complete the following form and either return it with your registration form or send in separately (to the same address) if you wish to respond anonymously (in any case, the two forms will be processed separately).

Principal Professional Interest
11 □ Physical, mathematical
12 □ Biological, medical
13 □ Engineering
14 □ Social, behavioral
15 □ Science policy
16 □ Other __________________________

Principal Professional Activity
21 □ Teaching, education
22 □ Health practice
23 □ Other practice, consulting
24 □ Research, development
25 □ Administration
26 □ Other __________________________

Institutional Affiliation Type
31 □ University, 4-year college
32 □ Other educational
33 □ Industrial, commercial
34 □ Other private
35 □ Government
36 □ Other __________________________

Highest Educational Level
41 □ Doctoral Degree
42 □ Master’s Degree
43 □ Other professional
44 □ Bachelor’s Degree
45 □ Other __________________________

Age
51 □ Under 26 years
52 □ 26 to 35 years
53 □ 36 to 45 years
54 □ 46 to 55 years
55 □ 56 to 65 years
56 □ Over 65 years

Distance Traveled to Meeting
61 □ Under 51 miles
62 □ 52 to 150 miles
63 □ 151 to 400 miles
64 □ 401 to 1000 miles
65 □ 1001 to 3000 miles
66 □ Over 3000 miles

Last AAAS Meeting Attended
71 □ 1972 in Washington
72 □ 1973 in Mexico City
73 □ 1974 in San Francisco
74 □ 1975 in New York
75 □ 1976 in Boston
76 □ 1977 in Denver
Hotel Reservations
Room Rates*

The 144th National Meeting of the American Association for the Advancement of Science will be held in Washington, DC, 12-17 February 1978. Symposia, contributed paper sessions, and all other Meeting activities are scheduled in the Sheraton-Park (headquarters) and Shoreham Americana hotels. Both hotels will have AAAS registration and information desks and provide housing at the following convention rates:

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<th>Single</th>
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<td>SHERATON-PARK (Headquarters) 2660 Woodley Road, N.W. (No. of rooms held: 1000)</td>
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STUDENT RATES: Both the SHERATON-PARK and SHOREHAM AMERICANA hotels have provided these special room rates for students:

**Triple occupancy**: $15 per person;  
**Quadruple occupancy**: $12 per person

Only prearranged groups of 3 or 4 students with the same arrival and departure dates qualify for these special rates. All names must appear on the Hotel Reservation Form.

*Per day; add 8% D.C. sales tax. Charge for additional person in room, $10; rollaway beds or cots, $10 (both hotels.) Children accommodated free in same room with parents: Sheraton-Park, age 18 and under; Shoreham-Americana, age 14 and under.

**Lowest available rate for one-bedroom/parlor suites; rates for larger suites available on request.

NOTE: If room rate specified is not available, the next available higher rate will be assigned. Confirmation will come directly from the hotel. Please make all reservation changes and cancellations through the Housing Bureau in writing. Room assignment will be delayed if any information is omitted from the Hotel Reservation Form.

HOTEL RESERVATION FORM

Please type or print

Reservations received after 20 January cannot be assured. The Housing Bureau will not accept any reservations by telephone.

CHOICE OF HOTEL: First ______________________ Second ______________________

ROOM:  □ Single  □ Double  □ Twin SUITE: □ 1 Bedroom □ 2 Bedrooms PREFERRED RATE $_________

STUDENTS: □ 3 persons per room □ 4 persons per room

Please indicate any special housing needs due to a handicap:
__________________________________________________________________________

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. CHECK OUT-TIME IS 1:00 P.M. AT BOTH HOTELS.

DEPARTURE: Date ____________ ; ______ a.m. ______ p.m.

NAMES AND ADDRESSES OF ALL OCCUPANTS OF ROOM

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Hotel, confirm reservation to: ________________________________________________

Mail to: AAAS Housing Bureau  
1129 Twentieth Street, N.W., Washington, D.C. 20036

23 DECEMBER 1977
Annual Meeting Washington

ARTHUR HERSCHMAN

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