



Annual Meeting
Washington
3-8 January 1982

Chronological Summary of Symposia and Lectures

Building Knowledge and Understanding: Enduring Assets of Society

The AAAS Annual Meeting always offers many events on each day. To help you plan in advance, we have compiled a chronological summary of symposia and public lectures.

Part II, below, covers these events from Wednesday, 6 January, through Friday, 8 January. For schedules of the AAAS Tours and the Science Film Festival, please see the 2 October issue.

Wednesday, 6 January

9:00 a.m.–12:00 noon Symposium

- Solar Flares: A Key to the Physics of Cosmic Magnetic Explosions
- Science for the Naked Eye; Or, the Physics of Everyday Experience, IX (*Session 1*)
- The Global Concerns of Stratospheric Modification
- The Potential of Space: Developing Science and Applications Policies (*Session 1*)
- Fuels From Biomass: Patterns of Development in Latin America and the Caribbean (*Session 1*)
- Biocommunication: New Discoveries and Ideas (*Session 1*)
- Commercial Genetic Engineering: Impacts on Universities and Nonprofit Institutions
- The Origins of Sex and Sex Research
- Toxic Substance Control and the Environment: Policy Implications for Society
- Political Ecology of Food (*Session 1*)
- Role of Gamete Surface Components in Fertilization, Contraception, and Fertility
- Alcohol Use in Different Populations: Treatment and Prevention at the Crossroads
- Ethological Approaches to the Study of Politics
- Regulatory Reform as It Affects Science and Technology
- Processes and Issues in the Formulation of a National Industrial Strategy (*Session 1*)
- Science, Art, and Archeology
- Science and Policy—Science and Culture: Science in General Education

- Managing Peaceful Change: Whether Seen East/West or North/South, It's One World! (*Session 1*)
- Do ABMs Have a Future?

1:30 p.m.–2:30 p.m. Phi Beta Kappa Public Lecture

- Speaker: J. Tuzo Wilson

2:30 p.m.–5:30 p.m. Symposia

- Science for the Naked Eye; Or, the Physics of Everyday Experience, IX (*Session 2*)
- Quasars Large and Small
- Drought in the U.S.: History, Causes, and Impact—The Dust Bowl Revisited
- The Potential of Space: Developing Science and Applications Policies (*Session 2*)
- Fuels From Biomass: Patterns of Development in Latin America and the Caribbean (*Session 2*)
- Biocommunication: New Discoveries and Ideas (*Session 2*)
- Sexual Differentiation: Brain and Behavior
- Applied Toxicology: Environmental Toxicology in the Poison Control Center
- Political Ecology of Food (*Session 2*)
- Human Research and Its Regulation: An Evaluation of the New Federal Rules
- Frontiers in the Management of Cardiovascular Disease
- Influence of Hypnosis and Related States on Memory: Forensic Implications
- Organizational Evolution: External Selection versus Internal Adaptation
- Processes and Issues in the Formulation of a National Industrial Strategy (*Session 2*)
- Impact of Governmental Regulations on Developing Drugs From New Technologies
- Subjective Science?
- Talk With the Public: Expanding Opportunities for Scientists and Engineers in Science-Technology Centers
- Managing Peaceful Change: Whether Seen East/West or North/South, It's One World! (*Session 2*)
- The Relevance of Military Capability: What It Can and Cannot Do



The Navy-Marine Memorial is considered one of the most handsome outdoor sculptures in the Washington, D.C., metropolitan area.

8:30 p.m.–9:30 p.m. AAAS President's Public Lecture

- Speaker: *D. Allan Bromley*

Thursday, 7 January

9:00 a.m.–12:00 noon Symposia

- The Frontiers of the Natural Sciences (*Session 1*)
- Carbon Dioxide: Climate, Impacts, and Research
- Planet Earth
- Space Industrialization: Who's Doing What Today
- Fusion Energy: Science and Policy

- Biology of the Connective Tissue (*Session 1*)
- Reflections on the Recombinant DNA Controversy (*Session 1*)
- The Functions and Management of Aggression and Cooperation in Biocultural Evolution
- Transboundary Transport of Air Pollutants
- Environmetrics 82 (*Session 1*)
- Communication With Patients Leading to Health Enhancement
- Some Mathematical Questions in Biology (*Session 1*)
- Environment and Development in East Africa
- The Policy Implications of Changing Household and Family Patterns
- Risk Analysis, Risk Assessment, Risk Regulation
- What Happened to the Idea of Moving Continents After Wegener Proposed It?
- A Challenge for American Education: Scientific Literacy in the Germanies, Japan, and the Soviet Union
- International Science Programs: Issues, Constraints, and Opportunities
- Striking a Balance: Scientific Freedom and National Security

1:30 p.m.–2:30 p.m. Sarton Memorial Public Lecture

- Speaker: *Henry Guerlac*

2:30 p.m.–5:30 p.m. Symposia

- The Frontiers of the Natural Sciences (*Session 2*)
- Looking Into the Earth—Nonconventional Imaging Methods
- Ceramics for the 21st Century
- Synthetic Fuels From Non-Fossil Sources
- Biology of the Connective Tissue (*Session 2*)
- Reflections on the Recombinant DNA Controversy (*Session 2*)
- What Happened to Darwinism Between the Two Darwin Centennials, 1959–1982?
- Environmetrics 82 (*Session 2*)
- Groundwater Pollution—An Emerging Threat to a Natural Resource
- Some Mathematical Questions in Biology (*Session 2*)
- Management of Pain and Symptom Control in Terminally Ill Patients
- The Impact of Development on Peoples Who Occupy Land at Relatively Low Population Densities
- Critical Issues in Crime Control Policy
- Statistical Modeling for Risk Assessment
- Common Foundations of Economics and Ecology
- The Laboratories of Alexander Graham Bell
- Systems Methodology in Modern Science
- The Current Status and Alternative Futures of Science Education in the United States
- Policy Outlook for Science and Technology
- Scientists and the Arms Race

8:30 p.m.–9:30 p.m. AAAS Public Lecture

- Speaker: *Donald S. Frederickson*

Friday, 8 January

9:00 a.m.–12:00 noon Symposia

- Human Learning and the Optimum Utilization of Knowledge (*Session 1*)
- Chemistry Is Fun!
- International Minerals—A National Perspective
- Chemistry of Optical Communications
- Behavioral Approaches to Energy Conservation
- Bioactive Marine Products
- Transition: Applications of Genetic Engineering to Agriculture
- The Evolution of Human Diet: New Lines of Evidence
- External Threats to Ecosystems of the National Parks
- Plant Responses to Environmental Stress
- Torture, Medical Practice, and Medical Ethics
- Medical Decision Making: The Contemporary Viewpoint
- Measurement of Pain in Animals and Man
- Conflict, Resolution and Revolution
- Social Power and Dominance in Women: Cultural and Developmental Perspectives (*Session 1*)
- Verification and the Assessment of Forecast Uncertainty
- Engineering Manpower and Education Needs in the '80s (*Session 1*)
- The Changing Environment for Science Communication (*Session 1*)
- Science and the Career Public Service

- Paucity or Plenty: Natural Resource Availability, Global Security, and U.S. National Interests

1:30 p.m.–4:30 p.m. Symposia

- Human Learning and the Optimum Utilization of Knowledge (*Session 2*)
- The Appalachians—New Frontiers in Old Mountains
- Energy R&D Strategies and National Energy Policy
- Traditional Fuels and Forestry Policy in Asia and Africa
- The Adrenal Chromaffin Vesicle as a Biological Model
- Plant Biology and Biotechnology in the '80s
- The Human Knowledge Process: An Evolutionary Dilemma
- Environmental Assaults on the Nervous System and Human Behavior: A New Health Challenge
- High Technology in the Frontiers of Medicine: Too Expensive or Lifesaving?
- Therapeutic Epistemologies: Latin American Spiritual and Biomedical Healing
- Social Power and Dominance in Women: Cultural and Developmental Perspectives (*Session 2*)
- Engineering Manpower and Education Needs in the '80s (*Session 2*)
- The Changing Environment for Science Communication (*Session 2*)
- Arctic Science Policy for the Next Two Decades
- Technology for Defense: What's Needed?

*AAAS cordially invites you
to view the exhibits at
the upcoming AAAS
Annual Meeting
& Exhibit.*

Over a hundred exhibitors are expected. They will include leading book, magazine, and journal publishers; government programs and agencies; educational displays sponsored by major industries; computer manufacturers; and scientific instrument makers.



**The AAAS Exhibit
4–7 January 1982
Exhibit Hall, Concourse Level
The Washington Hilton**

Hours: 4 & 7 January 1982—10 am–5 pm
5 & 6 January 1982—10 am–4 pm
& 5:30–7 pm

Luncheon will be available daily in the Exhibit Hall. A cash bar will be open there on the evenings of the 5th and the 6th.



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ADVANCE
REGISTRATION
(E)

MAIL TO:
AAAS—DEPT. R
1515 Massachusetts Ave., NW
Washington, D.C. 20005

Name of Registrant: _____
(Last Name) (First and Initial)

Registrant's Institution or Company: _____

Registrant's Mailing Address: _____
[For receipt of program(s), badges, (Street)
and *Science* (for new applicants)]

(City/State or Province) (Zip Code)

Name of Spouse Registrant: _____
(Last Name) (First and Initial)

Other Additional Registrants: _____
(With same mailing address. Use new
form if address differs.)

Convention Address: _____
(Where you can be reached) (Hotel and/or Phone No.)
Check days attending: Sun Mon Tue Wed Thu Fri
□ □ □ □ □ □

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

- Please check appropriate boxes, complete remainder of form (type or print), and enclose payment or charge to credit card below.
- Preconvention Program, badge, and voucher for full Program and Abstracts will be mailed to registrants in early December.
- Full Program and Abstract Volume can be picked up at *Advance Registrants' Desks* at the Washington Hilton or the Capital Hilton.
- Registrations received after 14 December will be held at the AAAS Information Booth at the Washington Hilton.
- Refund requests for registration fees must be made by letter or telegram prior to 28 December 1981 and will be honored after the Annual Meeting. No refunds are made on cancellation notices received after this date.
- Special one-day attendance registration will be available at on-site Registration Desks only.

Registration Category	Regular		Student or Retired	
	Single	Double	Single	Double
<input type="checkbox"/> AAAS Member	<input type="checkbox"/> \$34	<input type="checkbox"/> \$50	<input type="checkbox"/> \$17	<input type="checkbox"/> \$25
<input type="checkbox"/> Non-Member:				
<input type="checkbox"/> Meeting registration only	<input type="checkbox"/> \$43	<input type="checkbox"/> \$60	<input type="checkbox"/> \$21	<input type="checkbox"/> \$30
<input type="checkbox"/> Register and join: Single membership	<input type="checkbox"/> \$77	<input type="checkbox"/> \$93	<input type="checkbox"/> \$44	<input type="checkbox"/> \$52
<input type="checkbox"/> Register and join: Double membership		<input type="checkbox"/> \$105		<input type="checkbox"/> \$64

Students: Fulltime undergraduate or graduate students only.

Double Membership (registrant & spouse) includes single subscription to *Science* (51 issues per year).

1981 Membership Dues: Regular Member, \$43; Student or Emeritus, \$27; Spouse or Emeritus without *Science*, \$12.

Inquire for Canadian and other foreign rates.

Specify name of new member for single membership: _____

Charge to my ☐ VISA or ☐ MASTERCARD

Account No. _____ Expiration Date _____

Cardholder's Name _____ Signature _____
(Please print)

SURVEY OF ATTENDANTS

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Your answers to the following questions will help us to plan future Annual Meetings. Please complete the form and either return it with your registration form or send in separately (to the same address) if you wish to respond anonymously (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

Number of Past AAAS Meetings Attended

- 61 ☐ None
62 ☐ One
63 ☐ Two
64 ☐ Three
65 ☐ Four
66 ☐ Five or more

Distance Traveled to Meeting

- 71 ☐ Under 51 miles
72 ☐ 51 to 150 miles
73 ☐ 151 to 400 miles
74 ☐ 401 to 1000 miles
75 ☐ 1001 to 3000 miles
76 ☐ Over 3000 miles

MAIL TO: AAAS Housing Bureau
1575 Eye Street, N.W.
Suite 250
Washington, D.C. 20005

HOTEL RESERVATIONS

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Send confirmation to:

Name _____ Street _____
City _____ State _____ Zip _____ Phone No. _____

Other occupants of room:

Name _____ Name _____

Choice of hotel: 1. _____ 2. _____ 3. _____

Room: ☐ Single ☐ Double ☐ Twin **Suite:** ☐ 1 Bedroom ☐ 2 Bedrooms **Preferred Rate:** \$ _____

Please indicate special housing needs due to a handicap: ☐ Wheelchair accessible room.

Other: _____

Arrival Date: _____ **Time:** _____ ☐ a.m. ☐ p.m. Be sure to list definite arrival and departure date and time. Reservations will be held only until 6 p.m. unless accompanied by 1 night's deposit.
Departure Date: _____ **Time:** _____ ☐ a.m. ☐ p.m.

- All hotel reservations must be submitted to the AAAS Housing Bureau in writing (use form above; type or print).
- Reservations must be received by the Housing Bureau **not later than 14 December 1981**; reservations received after that date are conditional upon space availability at the hotels.
- Rooms are assigned on a first come, first served basis. If room rate requested is no longer available, the next available higher rate will be assigned.
- Confirmation will come directly from the hotel. All changes and cancellations must be made in writing (not by phone) through the AAAS Housing Bureau.

HOTEL RATES*

Hotel	Single	Double & Twin	Parlor + 1 Bedrm.	Parlor + 2 Bedrms.	Parking (rates subject to change)
Washington Hilton <i>Headquarters Hotel</i> 1919 Connecticut Ave., N.W. (No. of rooms: 1,000)	\$51 68 81	\$66 83 96	\$175 and up	\$271 and up	\$5.00 per 24 hrs. with in & out privileges for registered guests only. Inquire for hourly rates.
Capital Hilton 16th and K Streets, N.W. (No. of rooms: 500)	\$45 63 81	\$65 83 96	\$225 and up	\$300 and up	\$4.75 per 24 hrs. (no in & out privileges) at PMI Garage on L St. adjacent to hotel. Inquire for other rates.
Highland Hotel 1914 Connecticut Ave., N.W. (No. of rooms: 75)	\$45	\$55	\$75	_____	No parking on premises. Commercial parking in Universal Bldg. across street @ \$4.50 per 24 hrs. (no in & out privileges).
Holiday Inn 1900 Connecticut Ave., N.W. (No. of rooms: 100)	\$45	\$55	_____	_____	Limited indoor parking (cars only) free of charge for registered guests only.

*Add 10% D.C. sales tax and 80¢ per night room occupancy tax.

Charges for roll-away beds: Washington Hilton and Capital Hilton, \$15/night; Highland Hotel, \$10/night; Holiday Inn, \$8/night.

Children are accommodated free of charge in same room with parents if no extra beds are required. Age limits are as follows: Washington Hilton and Capital Hilton, no age limit; Highland Hotel, 14 and under; Holiday Inn, 19 and under.

Buy Your Airline Tickets Now!

Air fares, unlike aircraft, seem to be going in only one direction—up. The AAAS Annual Meeting starts on the last day of the New Year's weekend, when post-holiday travel is at its peak. Protect yourself by purchasing your airline tickets now. Thus, you will not only secure a seat on the flight of your choice, you will also save money by paying the currently applicable price. Be sure to inquire about discount fares such as "super saver" and others; these fares often require reservations or purchase of tickets well in advance and a minimum length of stay.