

erick Mosteller of Harvard University and Alice M. Rivlin of the Brookings Institution, will address problems that have arisen in the design and execution of particular experiments and discuss the promises and limitations of experimentation as an aid to policy-making.

The morning session will include presentations on the following subjects: a critical assessment of the income maintenance experiments—especially those in Gary, Denver, and Seattle; lessons of the performance contracting

experiments; and problems in the housing allowance supply experiment.

The afternoon session will consider the broader questions of social experimentation and public policy, moral and ethical issues of experimenting with people, and rigor versus feasibility in attempting experiments in education.

With increasing frequency social scientists are asked to and seek to justify their research in terms of its relevance in the public policy-making process. Yet there exists an apparent conflict

between the requirements for formulating and conducting good social research and the requirements for formulating and conducting good public policy.

A program arranged by Harvey M. Sapolsky of M.I.T. will focus on "Public Policy and Social Science." It will explore the extent of the conflict from a variety of disciplinary and policy area perspectives and feature a major address on the subject by James Coleman of Johns Hopkins University.

Supporting and Managing Technological Development

Two programs in this year's meeting will deal with aspects of the management of technology: "The Stimulation and Control of Technology by Government," arranged by Joel D. Goldhar of Rensselaer Polytechnic Institute and Don E. Kash of the University of Oklahoma, and "Federal Support of Commercially Relevant R&D," arranged by John M. Evans, Jr., of the National Bureau of Standards and Jordan D. Lewis of Battelle Development Corporation. These complementary programs are scheduled for 28 and 29 December, respectively.

The first will examine the interactions between government and technology in two often conflicting areas: (i) stimulation of technology to increase innovation and enhance economic growth and (ii) assessment and control of the impacts of new tech-

nology and the redirection of technology towards new social goals.

The morning panel will involve speakers who have studied the process of technological innovations from diverse disciplinary or professional viewpoints. One focus for discussion will be those "leverage points" at which public policy intervention could be effectively exercised in enhancing technological development. The experimental R&D Incentives Programs of the National Science Foundation and the National Bureau of Standards will also be discussed.

The afternoon panel on the control of technology will include three speakers who will discuss "The Development of Policy Alternative," "Anti-Intellectualism and Other Obstacles to the Control of Technology," and "NEPA: Proliferating Paperwork or Plotting a New Direction."

The second symposium in this series will assess present efforts and consider the proper role of government in encouraging commercially relevant R&D. In the existing international environment of vigorous competition and the domestic situation of continual inflation and economic controls, the subject of federal support of commercially relevant R&D continues to receive much attention from policy-makers at all levels of government, industry, and universities. The newest facet of government involvement with industries and universities—the Experimental Technology Incentives Programs at NBS and NSF—will be examined as well as experiences in other countries and available options for new actions.

This symposium will also include the Scientific Research Society of America's Procter Prize award. This year Lewis M. Branscomb will receive the prize and deliver the Annual Address.

Space Technology: EROS, ERTS, and the Space Shuttle

Space technology and space research occupy a significant portion of this year's annual meeting program. This is fitting because important changes in direction of the space program have recently been made, and future redirection is probably in the offing.

The first of these is a 1-day symposium entitled "EROS and ERTS: Spacecraft and Aircraft Remote Sensing of the Environment," arranged by William A. Fisher of the U.S. Geological Survey and scheduled for 27 December. This symposium should be of interest to engineers involved in the development of aircraft and spacecraft remote-sensing systems and also to earth scientists.

The symposium will review the engineering characteristics of the ERTS spacecraft, the methodology applied to the evaluation of results, the early re-

sults of the NASA Earth Resources Technology Satellite (ERTS) experiment, the Earth Resources Observation Systems (EROS) program of the Department of the Interior, related programs in other agencies, and training and education needs and programs.

Of fundamental importance to these matters and a host of other space application programs is the 2-day symposium "Space Shuttle Payloads," arranged by George W. Morgenthaler of Martin Marietta Corporation and scheduled for 27 and 28 December at the Washington Hilton.

The program will have sessions on: the space-shuttle system and its capability, including flight profiles and payload capabilities; science payloads for the shuttle, including astronomy, atmospheric studies, and biomedical experiments; applications payloads for the

shuttle, including remote sensing, communications, navigation, geodesy, and power generations; engineering development possibilities, including manufacturing and materials processing in a low-g situation, production of biologicals, and testing of space subsystems in a space environment; and projections about space operations, including refurbishing spent satellites, tending remote platforms, and assembly of large orbital stations and interplanetary vehicles.

The next-to-last session of this comprehensive program will consider several cost-effectiveness studies of the space shuttle including the Mathematica studies, the Rand studies, and the GAO studies.

The final session will be a panel discussion on the space-shuttle contributions to national goals, particularly technological, economic, political, and defense goals.

26-31 December 1972

(B)

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 Theater; 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 in the 15 September issue for the precise hotel locations of individual symposia.

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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 SHOREHAM	\$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 _____

Science

Space Technology: EROS, ERTS, and the Space Shuttle

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