

Environment and Science in Transition

As man's demand for water, electricity, food, manufactured commodities, and housing increases, so does his stress upon the environment. Symposia at the AAAS annual meeting will cover several aspects of this continuing environmental evolution.

Environmental Focus on Land Use

The desirability of developing compatible pollution control practices and land use procedures has finally been recognized. Research on the interactions between the way in which land use and the quality of air and water influence one another will be discussed at a symposium (28 Feb.) entitled "Environment: A New Focus for Land Use Planning," arranged by Larry W. Tombaugh, program manager of the division of environmental systems and resources at the National Science Foundation.

Review of Environmental Management

A major cost of urbanization has been the accumulation of increasingly intractable wastes. The government and the public sees them in the form of air and water pollution and valuable lands preempted for refuse. Special government agencies and programs have been created to handle each pollution problem separately. However, according to William E. Felling, program officer of Resources and the Environment of the Ford Foundation, splitting up the problem is neither logical nor effective.

A symposium (25 Feb.) entitled "Experiments in Regional Environmental Management," arranged by Felling, will review six experiments in regional environmental management. These experiments expand the environmental data base, improve the capacity of elected officials and their staffs to

better anticipate the consequences of the variety of environmental decisions; and provide for a more effective information flow to and from the broadest range of citizens possible so that environmental decision-making can become truly participatory.

The preliminary implications of these experiments on federal policies, the academic inputs to environmental planning, and, lastly, the possible applications for the problems of the San Francisco Bay area, will be focused upon.

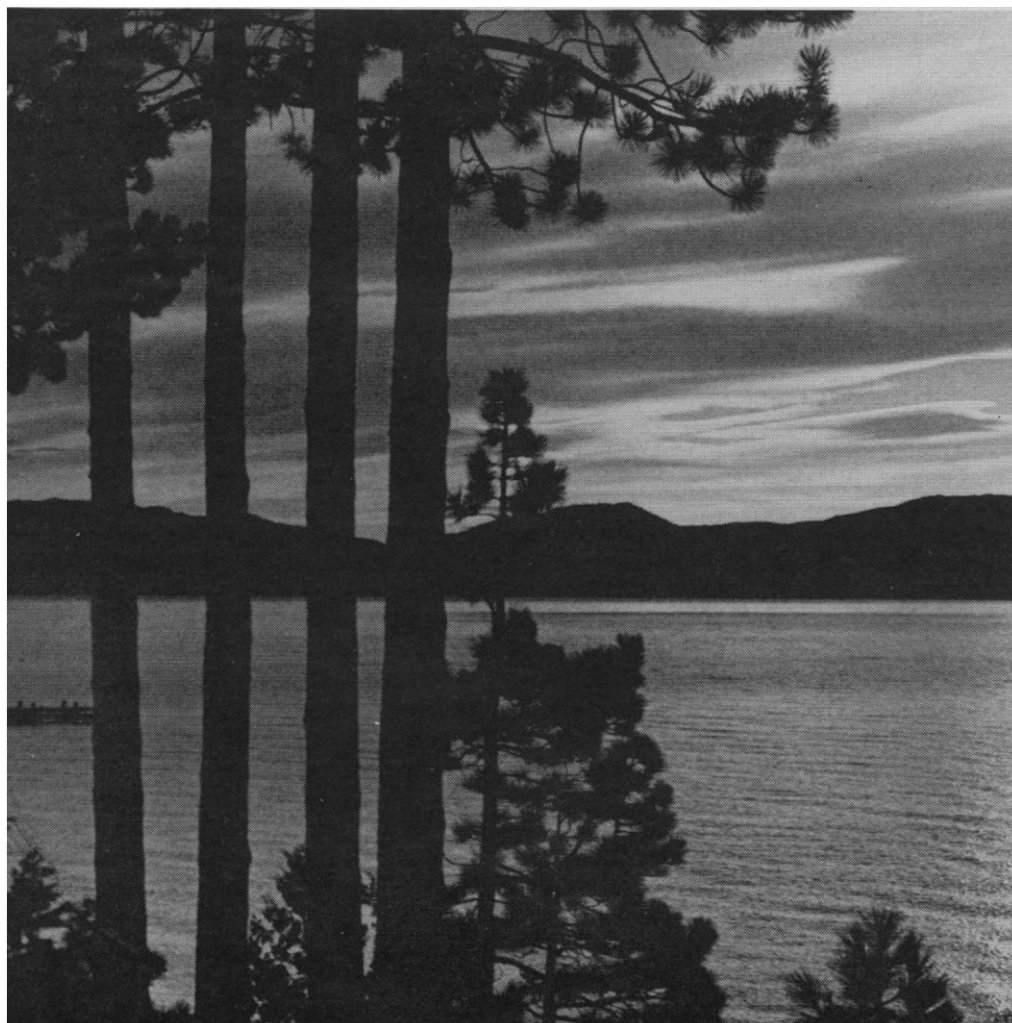
The Architects Role

Perhaps regional environmental planning can help prevent the glaring failures seen in many urban renewal projects, such as expensive high rise structures that fall into ruin in little more than 10 years. Better management, along with better land use and architectural planning, can help to forestall such failures in the future.

"Architecture for the Future—A Proposal and a Critique" is a symposium (26–27 Feb.) that will be sponsored by the American Institute of Architects and California Tomorrow and arranged by Nathaniel Owings of Skidmore, Owings and Merrill, San Francisco. It is based on the conviction that architects with their technical, structural, and artistic knowledge, can better comment on future environments than people skilled only in "social planning," or the public who, left to its own devices, often selects poor environments in which to live, such as mobile homes and houseboats.

In contrast to the social planner, who seeks to reduce options by generalizations, the architect must open more options for people who can then choose their future environments. Increasing options is the logical aim for environmental development in a free society.

Several novel architectural concepts will be discussed, including floating cities (Hawaii), artificial island towns (Japan), and underwater cities. The work of architects from Japan, Singapore, and Soviet Siberia will be exhibited. Other topics will include a



Scenic view of Lake Tahoe. [Robert N. Coats, Tahoe Research Group]

proposal for land use for open space and for highly populated regions, innovative architectural ideas for neighborhoods and communities, and the results of an 8-month study prepared at the direction of the Citizen's Advisory Committee on Environmental Quality Task Force.

National Water Commission's Report

Irrigated agriculture has, in the past, been an important element in the development of farmland in the United States; however, its role in U.S. agriculture has been changing. A study conducted by the National Water Commission has reached two conclusions that (i) additional irrigated agricultural or even all of the present irrigated area is not needed to meet export needs and (ii) that subsidies for the development of additional irrigation should be discontinued.

The rise in farm prices has added to the sharp disagreement and strong endorsement of these recommendations since the commission's report.

A symposium (28 Feb.) entitled "Water Policies on U.S. Irrigated Agriculture: Are Increased Acreages Needed to Meet Domestic or World Needs?" arranged by Victor A. Koelzer, Engineering Research Center at Colorado State University, will allow forum for discussion of the commission's findings.

Development of Arid Lands

The development of arid and sub-humid lands in the United States, which constitutes one-third of its land mass, has been continuing since the time of Lewis and Clark.

The Colorado River Basin includes some of the nation's most remote and spectacular areas. It contains a large share of the U.S. fossil fuel deposits and uranium reserves, its Indian cultures are the least touched by the white man, its waters are fully exploited for energy and water supplies to the out-of-basin metropolitan and agricultural areas of southern California, and grazing and agriculture is fully developed within the basin.

A case study of the basin will be presented in a symposium (28 Feb. and 1 Mar.) entitled "Values and Choices in the Development of an Arid Land River Basin," arranged by D. F. Peterson, vice president for research, and A. Barry Crawford, associate director of research of the Environment and Man Program, both at Utah State University at Logan.

The symposium, sponsored by the AAAS Committee on Arid Lands, will attempt to explore the past history and likely alternative futures of the basin, and consider how present conditions may change in the future with new development projects, community development, and international problems.

Two Lakes in Environmental Transition

Environmental changes are likely to take place at Lake Tahoe and Lake Powell. A 1-day symposium (25 Feb.) entitled "Lake Powell and Lake Tahoe in Environmental Transition: Two Regional Multidisciplinary Environmental Research Programs" will concentrate on natural and social science research taking place at these two areas. Presentations will be made on such subjects as lake geochemistry,

scientists and policy-making, and cultural, political, and economic impact.

Sponsored by the National Science Foundation, Research Applied to National Needs, the symposium is being arranged by Charles R. Goldman, Tahoe Research Group, University of California at Davis, and Orson L. Anderson, coordinator for the natural sciences, Lake Powell Project, University of California at Los Angeles.

The objectives are to compare two major research projects, including the manner of integration of research on total environmental impact and change, and to contrast the methods of such research on other large bodies of water.

Throughout these six symposiums specialists in many fields will cover many of the most current concepts and proposals on environment and science in transition.

SCIENCEPHERE '74

Many attendees of the 139th AAAS meeting in Washington, D.C., communicated to the Association their disappointment about one missing feature of that meeting—the exhibits. Because of popular demand AAAS has reinstated the exhibits as part of its program for the 1974 Annual Meeting in San Francisco, under a new title, "SCIENCEPHERE '74."

"SCIENCEPHERE" will bring together exhibits ranging from books and instruments to displays of on-going research, items of historical significance, and current projects of interest in and around the host city.

All attendees of the AAAS San Francisco meeting are invited to visit "SCIENCEPHERE '74."

DATES: 25–28 February 1974

PLACE: Hilton Plaza Hall, San Francisco Hilton Hotel

The exhibit hall also provides convenient access to the "SCIENCE FILM FESTIVAL," another popular feature of AAAS meetings. Detailed information will appear in a later issue.

On Tuesday morning, 26 February, a complimentary continental breakfast will be served in the Hilton Plaza Hall, as a special convenience to those who plan to visit "SCIENCEPHERE" and the "SCIENCE FILM FESTIVAL." Relatively few sessions have been scheduled for Tuesday morning. However, those who wish to attend the scheduled sessions are encouraged to pay an early visit to the exhibit hall.

The companies and organizations listed below comprise only a part of the exhibitors who will be represented in San Francisco:

American University Press Services, Inc.

Bio-Rad Laboratories

Bio-Sciences Information Services

The Combined Book Exhibit, Inc.

Ginn and Company—A Xerox Education Co.

Grolier-Interstate

National Audubon Society

Plenum Publishing Corporation

Sierra Club

Sigma XI, The Scientific Research Society of North America, Inc.

Subsequent issues of *Science* will carry further listings of exhibitors and other special announcements such as Tours and Special Events.

AAAS Annual Meeting : San Francisco

Registration

24 February–1 March 1974

(B)

ADVANCE REGISTRATION FORM

- ☐ Enclosed is \$17 Registration Fee (Program and Convention Badge)
- ☐ Enclosed is \$22 Registration Fee (including spouse) (One Program and two Convention Badges)
- ☐ Enclosed is \$8 Young People and Student Registration Fee (Program and Convention Badge)

Are you a AAAS member? ☐ Yes ☐ No
Is this your first AAAS Meeting? ☐ Yes ☐ No

Please check your primary reason for attending the AAAS meeting.
☐ To participate in the program ☐ To attend certain general sessions ☐ Other

NOTE: PROGRAMS AND BADGES WILL NOT BE MAILED IN ADVANCE.

On or about 1 February, a program summary and a receipt will be mailed to each registrant. Please present your receipt at the ADVANCE REGISTRATION DESK at the San Francisco Hilton Hotel to pick up your program and badge.

Miss Ms. Mrs.

Dr. Mr. _____
(Last Name) (First) (Middle Initial)

MULTIPLE REGISTRATION:

(List full name for spouse and other registrants)

MAILING ADDRESS:

(For receipt and program summary) (Street) (City/State) (Zip Code)

INSTITUTION OR COMPANY:

(City) (State) (Zip Code)

CONVENTION ADDRESS: _____
Arrival date: _____ Departure date: _____

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

OFFICE AND SESSION LOCATIONS

San Francisco Hilton: AAAS Headquarters Office; On-Site Registration Desk; Advance Registration Desk; Information Desk; Ticket Sales Desk; Message Center; Session Aides; Press Headquarters; AAAS Sciencephere (Exhibits); Science Film Festival; Invited Lectures.

*Symposia Topic Areas**: Energy and Society; Space Technology; Health and Behavior (Neurological Systems; Function; Drug Use and Drug Abuse); Population Trends; Environmental Evolution; Species Organization; Scientists and Government; Technology Assessment.

St. Francis: AAAS Office; Session Aides.

*Symposia Topic Areas**: Mathematics; Physical Universe; Engineering; Computer Technology; Environmental Education and Assessment; Animal Behavior; Land Use and Planning.

Sheraton-Palace: On-Site Registration Desk; Information Desk; AAAS Office; Session Aides.

*Symposia Topic Areas**: History; Philosophy of Science; Health Systems and Policy; Food; Control Mechanisms; Educational Policies and Trends; Minorities.

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

Child Care Services: Two agencies have been recommended for attendees requiring baby-sitting services. For further information contact:

Bristol Agency
540 O'Farrell Street
San Francisco, CA 94102
TEL: (415) 776-9100

The French-American Agency
133 Geary
San Francisco, CA 94108
TEL: (415) 781-3889

Travel: AAAS does **not** provide group travel arrangements for the San Francisco meeting. Please check with your travel agent or airline for the most economic air fares.

East Coast members are reminded that some airlines make available substantial reductions in air fares when reservations are made 90 days in advance for flights from New York City, Boston, Philadelphia, Baltimore, and Washington to San Francisco.

Reservations

HOTEL RATES* (Per Day)

The American Association for the Advancement of Science will hold its 1974 Annual Meeting in San Francisco, California, 24 February-1 March. The AAAS registration desks will be located at the San Francisco Hilton and Sheraton-Palace hotels. The following hotels will be used for housing:

Hotel	Single	Double	Twin	Suites†	Parking
1) SAN FRANCISCO HILTON ✕ (Headquarters Hotel) Mason and O'Farrell Streets (a) Main Building Rates	\$22 25 29 32 34	\$30 33 37 40 42	\$30 33 37 40 42	\$74 and up	Free parking for registered guests on 5th through 11th floors in Main Building (subject to availability). \$3.25 maximum charge for 12 hours; up to 24 hours add \$0.75. \$4.25 24 hours with in and out privileges for registered guests.
(b) Tower Rates	\$37	\$45	\$45	\$95 and up	
2) HOTEL ST. FRANCIS ✕ Union Square	\$22 26 30 34	\$28 32 36 40	\$28 32 36 40	\$65 and up	\$4.50 24 hours with in and out privileges for registered guests.
3) SHERATON-PALACE HOTEL ✕ 639 Market Street	\$23	\$27	\$27	\$43.50 and up	Commercial parking adjacent to hotel: \$3.75 & \$2.25 24 hours.
4) SIR FRANCIS DRAKE HOTEL ★ Powell and Sutter Streets	\$24	\$29	\$29	\$66 and up	\$4.50 24 hours with in and out privileges for registered guests.

* San Francisco Room Tax, 6%; \$4 to \$8 additional charge for cots and rollaway beds. If rate specified is not available, the next available higher rate will be assigned.

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

✕ Up to two children accommodated at no extra charge if they occupy same room as parents.

★ Children under age 12 accommodated at no extra charge in same room with parents; three persons per room maximum.

HOTEL RESERVATIONS FORM

(No reservations by telephone)

Mail to: AAAS Housing Bureau
260 Fox Plaza
San Francisco, CA 94102

CHOICE OF HOTEL: First _____ Second _____ Third _____

ROOM: ☐ Single ☐ Double ☐ Twin ☐ Suite 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 25 January 1974 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 _____