

Hartford and the Oregon Graduate Center.

A brochure with full descriptions, schedules, and an application form is available from the Office of Science Education, at the AAAS address.

## Arkansas Energy Seminar Planned

"Rural America: Energy Needs and Alternatives" will be the topic for the third in the current AAAS Regional Energy Seminar Series. The seminar will be held 16-18 September at DeGray State Park Lodge near Arkadelphia, Arkansas.

Senator Dale Bumpers (D-Ark.) will open the meeting, which will focus on energy problems peculiar to rural America and on measures that may be taken to maintain the vitality and quality of life in rural America. Emphasis will be directed toward the rural energy problems of Arkansas and neighboring states of Alabama, Kentucky, Louisiana, Mississippi, Missouri, Oklahoma, Southern Illinois, Tennessee, and Texas.

Rural energy use and consumption patterns will be examined from economic, demographic, and transportation perspectives. Sessions on rural energy use and conservation will address the present and future availability of conventional fuels and the effects of increased conservation and supply extending practices such as on-premises utilization of wood and waste products. Alternative energy resources will be explored, including dilute energy sources (solar, wind, and water), biomass conversion, and possible lignite utilization. Finally, the impacts of shifting energy patterns, increased energy costs, and energy and materials shortages on the prices of agricultural commodities will provide an opportunity for a discussion of how rural America can cope with the economic stress resulting from the changing energy environment.

Cosponsors for the seminar along with AAAS are Sigma Xi, the Scientific Research Society; the Joint Educational Consortium of Henderson State University and Ouachita Baptist University; the Arkansas Academy of Sciences; the State of Louisiana Department of Natural Resources; the State of Texas, Office of Energy Resources; the State of Oklahoma Department of Energy; and the State of Arkansas. Funding for the AAAS Regional Energy Seminar Series comes from the U.S. Department of Energy.

For further information, contact Patri-

## Mellon Foundation Grants Award to AAAS

The Andrew W. Mellon Foundation of New York City has generously granted \$250,000 to the AAAS toward the costs of expanding its public information program. The AAAS Board plans to apply the grant to second-stage start-up costs of *SCIENCE 80*, the new AAAS magazine of science and technology for a general public readership. Edward E. David, Jr., AAAS Board Chairman, said, "The Mellon Foundation's support of our public information program is welcome not only for financial reasons but as confirmation of the priority we now place on communicating science effectively to the public which supports it year in and year out."

cia S. Curlin, regional energy seminar coordinator, at the AAAS address, telephone 202/467-4310.

## AAAS Climate Project Under Way

A new Committee on Climate has been appointed by the AAAS Board of Directors to provide expertise and direction to the Association's long-range commitment to the global issue of climate and its impacts. Roger Revelle, a past president of AAAS, has agreed to serve as chairman.

The AAAS Committee on Future Directions had recommended that the Association contribute to a long-term scientific issue which was both highly interdisciplinary and global in its implications. Climate was selected as a very suitable subject. A working group considered this proposal and agreed that the extraordinarily wide range of scientific and professional interests represented within the membership of the Association and its affiliates would be a resource that could be used to good effect as we continue to improve our understanding of the ways in which climate, and particularly the possibility of climate change, affect the environment and human activities. The new committee was formed as a result of these deliberations.

The first major AAAS activity in this area was a workshop on "Environmental

and Societal Consequences of a Possible CO<sub>2</sub>-Induced Climate Change." It was held 2-6 April 1979 in Annapolis, Maryland. Funding was provided by the Carbon Dioxide and Climate Research Program of the U.S. Department of Energy.

The workshop, chaired by Roger Revelle, brought together 87 participants from a wide variety of disciplines in the physical, biological, and social sciences. The meeting was a first effort to identify the benefits and costs of increased atmospheric carbon dioxide and a climate change which such an increase might bring about. An attempt was made to conceptualize the significant questions, identify gaps in the understanding of impacts, and recommend research which might fill those gaps.

Panel discussions considered possible climate change scenarios and resultant effects on ocean dynamics and ocean biota, especially fisheries, and the cryosphere; on the unmanaged biosphere; on the range of plant and crop responses and agricultural production; on societal and institutional responses; and economic benefits, costs, and geopolitical implications.

The report of the Annapolis workshop is available on request from David M. Burns, director, Climate Project, at the AAAS address.

## 1979 SWARM Meeting

*The following is from the report of Joseph A. Schufle (New Mexico Highlands University), secretary, SWARM Division, AAAS.*

The 55th annual meeting of the Southwestern and Rocky Mountain (SWARM) Division of AAAS was held 25-28 April at Fort Lewis College in Durango, Colorado.

Lora M. Shields, who retired as SWARM's executive officer at the meeting, was given the Division's Certificate of Merit of the Committee on Desert and Arid Zones Research. Shields, visiting professor, Navajo Community College, has made studies on the return of vegetation onto the Yucca Flats atomic test site in Nevada and comparative studies at the Carrizozo Lava Flow. She is succeeded as executive officer by Michelle Balcomb of Colorado Mountain College.

James O'Leary, University of Arizona, ended his term as president. He is succeeded by Henry Shine, Texas Tech University; Samuel Shushan, University of Colorado, is president-elect. The Du-

rango meeting was cosponsored by the Colorado-Wyoming Academy of Science.

Prizes of \$50 were awarded to the best student papers presented in each section. The awards in the various sections were:

- Aquatic Biology: G. M. DeGraeve, University of Wyoming, "Aquatic effects of effluents from in situ recovery of shale oil and coal."

- Arid Zone Studies: S. D. Prien, Texas Tech University, "Salt-induced stress in sunflowers."

- Botanical Sciences: Laurie Robbins, Texas Tech University, "Comparative studies of two species of yucca in West Texas and adjacent New Mexico."

- Communication Sciences: Richard Arthur, University of Denver, "ETIC-EMIC methodology for the study of communication in organizations."

- Physical Sciences: Scott Burns, University of Colorado, "Influence of snow cover on alpine soil distribution of the Indian Peaks region."

- Psychological Sciences: Frank George, University of Colorado, "Prostaglandin inhibition differentially blocks ethanol induced depression in LS and SS mice."

- Social Sciences: Susan Steenrod, University of Denver, "Labor relations at an Arizona coal mine."

- Zoological Sciences: Stephen Corn, Colorado State University, "Size at metamorphosis and growth rates of juvenile frogs from Montane populations of *Rana pipiens*."

The next meeting of SWARM will be 9-12 April 1980 in Las Vegas, Nevada.

## Workshop on Women and Development Held

The Workshop on Women and Development was the first of a series of four workshops conducted by the AAAS at the request of the U.S. Department of State. These workshops are a contribution to the U.S. preparations for the United Nations Conference on Science and Technology for Development (UNCSTD), to be held in Geneva later this month. The 2-day workshop, held 26-27 March in Washington, D.C., involved 38 participants, both men and women, with a variety of expertise in the field of women and development. The participants came from federal agencies, universities, public sector organizations, professional associations, and the World Bank. Special guest speakers included

Jack Sullivan, Assistant Administrator for Asia, U.S. Agency for International Development, and Jean Wilkowski, U.S. Coordinator for UNCSTD.

The dominant theme throughout the workshop was the critical need to consider the issue of "women and development" as an integral part of all recommendations and projects resulting from UNCSTD. Participants felt strongly that women should have equal access to and participate in development projects at every stage, including identification, formulation, appraisal, planning, design, implementation, and evaluation. They stressed the importance of involving women's groups (both at the village level and at the professional level) in project planning efforts.

Participants made 21 recommendations which were grouped into two categories: integrated planning and the inclusion of women in the making of technology policy. Within these categories, individual recommendations were directed to international bodies, to national governments (including specific recommendations to the United States government), and to the AAAS and other professional organizations.

A number of recommendations centered around the need to improve available household energy sources in both rural and urban areas. The participants suggested that one of the international pilot projects sponsored by UNCSTD focus on present and changing uses and supplies of household energy. Several members of the workshop group designed such a project, specifying its purposes, types of technologies to be considered, the formulation of approach, and the execution and evaluation of the project.

Other recommendations resulting from the workshop included (i) a pilot project to examine the relationship of modern industry employers of women in developing countries and the impact of that employment upon women; (ii) the linkage of research on women in agriculture to theoretical concerns with technological development; (iii) the initiation of projects supported by multilateral assistance agencies to provide productive employment and technical training for women; (iv) periodic small international conferences sponsored by the United Nations Educational, Scientific, and Cultural Organization (UNESCO), bringing together both academic and nonacademic professionals engaged in work on women and development; and (v) the inclusion of scholars familiar with women and development in all meetings of scientific associations and development agencies.

For more information about the workshop, write the Office of International Science at the AAAS address.

KAREN EHRLICH  
*Office of Opportunities in Science*

## Local MWIS Plan Career Days

A small group of Washington, D.C., area members of the National Network of Minority Women in Science has met monthly since April to begin working locally to improve opportunities for minority women in science. The National Network of Minority Women in Science is an outgrowth of the December 1975 AAAS conference of minority women scientists.

The greatest concern expressed at the April meeting was the lack of accurate and timely information and counseling on science careers for minority students. Local Network members set as their first major project a series of science career information conferences with parents and students in the junior high grades. The conferences, which are scheduled to begin in the fall, will bring together minority women scientists, students, parents, teachers, and counselors.

American Indian, Asian, Black, Mexican-American, and Puerto Rican women natural and social scientists and science teachers are encouraged to join the Network. There are approximately 200 Network members throughout the United States. Meetings of local members are being planned in Los Angeles, Nashville, and New York. This is the beginning of an effort to strengthen the Network through local and regional activity groups. A national meeting of the Network was held at the 1978 AAAS meeting in Washington, D.C.; another is planned in conjunction with the 1980 annual meeting in San Francisco.

For further information, contact Paula Quick Hall, Office of Opportunities in Science, at the AAAS address, telephone 202/467-5431.

**For more information about the activities and publications described in AAAS News, write to the appropriate office, AAAS, 1776 Massachusetts Avenue, NW, Washington, D.C. 20036, unless otherwise indicated.**