

AAAS Council Meeting, 1987

The Council held its meeting on 18 February 1987 in the Hyatt Regency Hotel, Chicago, with President Lawrence Bogorad presiding and 62 of its 84 members in attendance.

Executive Officer's Report

Referring to his 12th and last annual summation (1986) of the state of AAAS that appeared in *Science* (6 February 1987), Executive Officer William D. Carey affirmed the overall soundness of the Association, including its finances, journal *Science*, and program activities. Although the Annual Meeting can be considered a weak area, it is receiving close scrutiny by the Board and experiments are under way to strengthen the meeting. As a result of extra effort by the local Chicago Advisory Committee, the youth seminar subcommittee, and the Board, the 1987 Annual Meeting in Chicago with its stronger scientific content had been successful, with attendance up 15 percent from the preceding year. Additional changes in the Annual Meeting are being contemplated.

A painful and reluctant decision was made by the Board in midyear to discontinue publication of the award-winning popular science magazine, *Science 80-86*, which had been initiated to fulfill the AAAS constitutional objective to foster public understanding and appreciation of science. When the magazine's advertising decline threatened the financial security of AAAS, the Board sold the assets to Time, Inc., which folded the publication's circulation into its own science magazine, *Discover*. This transaction recovered the

Association's losses and terminated its risks.

An operating budget deficit estimated for 1987 at \$500,000, but aggressively brought down from \$2½ million in 1986, is the result of several factors, particularly the lingering overhead from *Science 80-86*, the annualized expense of new program starts, and sharply reduced interest income. Measures are being followed to minimize the estimated deficit in 1987.

On the brighter side, Mr. Carey reported that the sale of *Science 80-86* restored the Association's financial resources and helped the Association to achieve a balance sheet that is more robust than at any time in the past. In tribute to many years of dedicated service to AAAS, Mr. Carey cited the extraordinary efforts of Treasurer William T. Golden and the Advisory AAAS Committee on Investment and Finance in the exceptional management of the Association market investments.

Informing the Council that he would be retiring from AAAS on 31 March, Mr. Carey expressed his confidence that his successor, Dr. Alvin W. Trivelpiece, director of the Office of Energy Research, U.S. Department of Energy, will enjoy the same willing and strong support of the Council, Board, membership, and staff that has marked his own tenure. Whether any change in course will be advisable for AAAS will be up to the governance groups—the Board of Directors and the Council—to consider. Expressing his thanks and warm appreciation for having been given the opportunity to serve science by leading AAAS for 12½ years, Mr. Carey voiced his confidence

in the strength and ability of the Association to meet whatever demands the future might bring.

Elections

In February 1987, the Council elected, by mail ballot, Rosemary Chalk, Samuel W. Greenhouse, Lois K. Miller, and Andrew P. Vayda as members of the Committee on Council Affairs.

AAAS Section Committees elected the following Section Secretaries:

Section R (Dentistry): Marie U. Nylén

Section S (Pharmaceutical Sciences): Betty-ann Hoener (reelection)

Section U (Statistics): Joan R. Rosenblatt

Section W (Atmospheric and Hydrospheric Sciences): William H. Beasley

Section X (Societal Impacts of Science and Engineering): Rosemary Chalk

Results of the 1986 general and electorate elections were published in the 2 January 1987 issue of *Science*. Terms of all the officers began on 19 February 1987.

Affiliation

Two organizations—American Corrective Therapy Association and The Orton Dyslexia Society—were elected by the Council as new affiliates.

Established in New York in 1946, the American Corrective Therapy Association (ACTA) has a current membership of over 600 members. Its objectives are to encourage the use of medically prescribed therapeutic activities, including exercise techniques and psychology of medically oriented physical education; to advance the professional standards of education and training in the fields of these medically prescribed activities; to develop and sponsor programs of the highest scientific and professional character in these areas of medically prescribed activities related to development, prevention, habilitation, and rehabilitation through corrective and therapeutic treatment; to encourage research and

publication of scientific articles dealing with the advancement of physical and mental rehabilitation; to engage in and encourage ethical activities related to growth and development of the profession and the association.

Many ACTA members are involved in research and development activities related to exercise science, human performance in special populations, and pathophysiological sciences pertaining to rehabilitation, health care, and education. *The American Corrective Therapy Journal*, published six times annually, is the single publication of the association. ACTA promotes and sponsors medically prescribed rehabilitation programs; advances research, as well as standards of education and clinical training in this field; and provides continuing education. Other activities of the association are an annual meeting, scholarships for graduate students in corrective therapy, and grants-in-aid for students and practicing professionals.

Since its founding in 1949 by Dr. Samuel Torrey Orton, The Orton Dyslexia Society (TODS) has grown to 7300 members with 31 branches in the United States and one branch each in Bermuda and Canada. As the only group devoted exclusively to dyslexia, a term denoting difficulty in specific language or language development, its objective is to increase public understanding and appreciation of the methods of science in human progress. Society publications include the quarterly newsletter, "Perspectives in Dyslexia," and an annual scholarly journal, *Dyslexia*. Scholarships are offered in support of attendance at its annual meeting.

In conjunction with Harvard Medical School and Beth Israel Hospital in Boston, TODS is supporting medical research in dyslexia that is being done by Dr. Albert Galaburda. In addition, TODS has established a brain bank at Beth Israel where, in brain studies of dyslexics and non-dyslexics, a difference has been found in the language portion of the brain.

Fellows

Proposed by Steering Groups of Section Committees, by groups of three AAAS Fellows, or by the Executive Officer, 311 members were elected by the Council to the honor of Fellow

in the Association. Names of the new Fellows accompany this report.

Proposed Constitutional Amendment

At its May 1986 meeting, the Council had taken a first reading

of two versions of a proposed amendment to the AAAS Constitution that would change the current provision of election of the Section Secretary by the Section Committee to either (1) election by the Elected Section Officials or (2) appointment by

the Section Steering Group.

At its February meeting, noting that a majority of the Sections had reported preference for the latter method, the Council voted to submit to the AAAS electorate for approval, as part of the general election ballot in

AAAS Members Elected as Fellows, 18 February 1987

Walter H. Abelmann
Donald J. Abraham
Herbert L. Abrams
Stephen L. Adler
Michael F. A'Hearn
Bruce M. Alberts
Fred W. Allendorf
Adam Allerhand
Sidney Altman
Ralph D. Amado
N. R. Anthonisen
Ronald A. Arky
Mark L. Armstrong
K. Frank Austen
James E. Bailey
Virgil E. Barnes
Thomas Davies Barrow
James P. Barufaldi
Asit Prakas Basu
Henry Ernest Baumgarten
F. A. Bazzaz
Roger N. Beachy
Jackson Beatty
Ernest I. Becker
Anne C. Bekoff
Stephen J. Benkovic
Barbara L. Bentley
Jean M. Berdan
W. Keith Berg
Claude F. Bernasconi
Michael Berrill
Brian J. L. Berry
Michael James Berry
Erwin P. Bettinghaus
R. G. S. Bidwell
John Bienenstock
Robert P. Bigelow
John D. Biggers
J. Michael Bishop
Ramon E. Bisque
Robert Black
Robert Randolph Blake
David H. Blankenhorn
Erich Bloch
John O'M. Bockris
L. L. Boersma
Gary Borisy
David Botstein
Brian B. Boycott
Joseph David Brain
Mary A. B. Brazier
Kenneth L. Brigham
Roy J. Britten
Arnold Brossi
Joel E. Brown
Theodore L. Brown
Peter F. Brussard
Reid A. Bryson
Dwight A. Burkhardt
George Burnet
Donald G. Buth
Frederick H. Buttel
Larry D. Byrd

Alexander M. Capron
John R. Cardinal
F. Lynn Carpenter
Richard F. Casten
Lawrence M. Cathles III
MaryLou Cheal
Peter L. Chesson
James J. Childress
Malcolm Harold Chisholm
Marvin Chodorow
Robert Edward Chrien
John A. Clements
Joel R. Coats
Jewel Plummer Cobb
Richard E. Coggeshall
James P. Collins
Robert K. Colwell
C. Lockard Conley
Gary W. Conrad
Charles S. Cox
Richard E. Cutkosky
Stanley N. Davis
Bernard Delapalme
John A. DeMoss
Robin Denell
Paul J. De Weer
Leila Diamond
Don A. Dillman
Brian R. Duling
Floyd Dunn
Robert C. Dunnell
Alfred W. Ebeling
William F. Eddy
Gerald M. Edelman
I. Eibl-Eibesfeldt
Josef Eisinger
Abraham H. Epstein
Allan Jacob Erslev
Solomon D. Erulkar
David A. Farrell
Stuart Feldman
Frank Henry Field
Patricia A. Figueras
Royston H. Filby
Caleb E. Finch
Raul Fleischmajer
Robert W. Floyd
Ciprian Foias
Richard Earl Ford
J. Charles Forman
A. Theodore Forrester
Irwin M. Freedberg
Joyce Gross Freiwald
Nicholas M. Frey
Oscar N. Garcia
Burle Gene Gengenbach
Hersch M. Gerschenfeld
Lynn W. Glass
Prem K. Goel
Walter I. Goldberg
Martin Golubitsky
Robert K. Grasselli

Jane Gray
David J. Gross
Guido Guidotti
Warren G. Hall
Joseph H. Hamilton, Jr.
Patricia J. Harris
Allan S. Hay
J. Christopher Hepburn
Leonard A. Herzenberg
Gary M. Hieftje
Klaus Hinkleman
John P. Holdren
Leroy E. Hood
John Hopcroft
John Joseph Hopfield
Evan C. Horning
Carl S. Hoveland
Richard Olding Hynes
Kazuo Ikeda
Joseph Ilan
Vernon M. Ingram
Albert W. Jache
Roger W. Jeanloz
George F. Jenks
Feenan D. Jennings
Kenneth A. Johnson
Angel G. Jordan
Thomas C. Jorling
Robert Kane
Rathe S. Karrer
Roger E. Kasperson
Robert W. Kates
Stephen V. Kaye
Frederic Keffer
Joseph F. Keithley
Philip C. Kendall
Anne Kernan
John W. Kimball
Benjamin F. King
Jan Klein
Alfred G. Knudson, Jr.
Calvin F. Konzak
Stephen M. Kosslyn
Lester C. Krogh
Casimir A. Kulikowski
Michael LaBarbera
Glenn A. Langer
Robert A. Laudise
Roland M. Leach, Jr.
Bernard S. Lee
J. Ivan Legg
Henry A. Lester
Elliott M. Levine
Olga F. Linares
Jean Lipman-Blumen
Irving M. London
Orie L. Loucks
Thomas E. Lovejoy
J. Richard Lucas
Robert Francis Lucey
Arthur W. Luchtmann
Vincent N. Lunetta

George L. Maddox
Rose G. Mage
Philip W. Majerus
Ines Mandl
M. E. Maron
Wilda H. Martinez
Paul C. Maxwell
Gregory J. McCarthy
Hugh O. McDavitt
Boyd E. Metzger
Henry Metzger
Ernest J. Moniz
Martin C. Moore-Ede
Hadis Morkoc
Jeylan T. Mortimer
Burnaby Munson
Paul L. Munson
Charles F. Murphy
Robert D. Myers
Ralph Nader
Yutaka Nagai
Kumpati Subrahmanya Narendra
John W. Negele
Wayland E. Noland
Gerald R. North
Donald Novin
Alan Osborne
Stanford R. Ovshinsky
Ernest Page
Richard D. Palmiter
Gary M. Paulsen
Paul S. Peercy
Frank A. Pepe
S. V. Perry
Edward O. Pfrang
Merle D. Pierson
Steven Pinker
Robert Plonsey
Paul William Pomeroy
John T. Potts, Jr.
Peter W. Price
Alan R. Putnam
John H. G. Rankin
Silvio Ranzi
June Machover Reinisch
John D. Reppy
John P. Richardson
Jane J. Robinson
Nina Matheny Roscher
David A. Rosenbaum
Arthur H. Rubenstein
Richard Marion Rush
Theodore S. Saad
Naomi Sager
Barry Saltzman
Paul Satz
David S. Saxon
James E. Schirber
Theodore W. Schlie
Eveline E. Schneeberger
David Schottenfeld
Charles D. Scott

David Warren Scott
Robert M. Senior
Arthur M. Shapiro
Phillip A. Sharp
Joseph I. Silk
Isaac F. Silvera
George Singer
Nozer D. Singpurwalla
I. Glenn Sipes
Willis Howard Skrdla
Christopher C. Smith
Joseph Victor Smith
M. Estelle Smith
Paul V. Smith
Robert Lewis Soulen
James E. Specht
Randall K. Spoeri
James L. Starling
Stephen C. Stearns
Dale F. Stein
Lawrence Stein
Otto L. Stein
Edward A. Stern
Kent K. Stewart
Walther Stoeckenius
Allen R. Stubberud
Tod F. Stuessy
Stephen J. Suomi
Richard G. Swan
Marcia Peterson Sward
Charles E. Swenberg
M. Ali Tabatabai
Morris Tanenbaum
Stuart R. Taylor
Louis G. Terkla
Phillip V. Tobias
Paul A. Tukey
Joseph G. Turcotte
Edwin F. Ullman
Carol M. Veronda
Victor E. Viola
Salih J. Wakil
Robert E. Wallace
William Edward Wallace
Richard L. Webber
Robert A. Weinberg
Norman M. Weinberger
Max T. Weiss
Roy E. Welsch
John B. West
Robert Whallon
John R. Whinnery
William R. Wilcox
G. L. Wilson
Kenneth G. Wilson
Leonard G. Wilson
Sandra F. Witelson
Paul Witkovsky
Mark S. Wrighton
Robert E. Wyatt
Richard Asa Yarnell
Irving Kenneth Zola

the fall, a proposed constitutional amendment to Article VI, Section 2, Administrative Officers, last sentence, to provide for the appointment of the Section Secretary by the Section Steering Group. In addition, to accommodate the concern regarding the Section Secretary's participation in the appointment process, the Council approved a proviso to accompany the recommended constitutional amendment: that a Section Secretary not be permitted to vote on his or her own reelection but that a retiring Section Secretary be allowed and encouraged to participate in the selection of a successor.

Resolutions

Three resolutions were adopted by the Council as follows:

1) *Resolution on Behalf of Anatoly Koryagin and Other Soviet Scientists*, submitted by the AAAS Committee on Scientific Freedom and Responsibility:

Whereas the American Association for the Advancement of Science has received recent reports that several Soviet scientists, including psychiatrist Anatoly Koryagin, have been or are about to be released from prison or labor camps; and

Whereas the AAAS welcomes and is encouraged by these developments;

Be it resolved that the AAAS urge its affiliates to continue to petition the Soviet authorities for the release of all Soviet scientists who remain confined in prison, labor camps, psychiatric hospitals, or internal exile because of their beliefs.

2) *Teacher Training and Standards*, submitted by Ann C. Birge, retired officer of Electorate B (Physics):

Whereas the demands of the 21st century for a creative and educated citizenry in a highly competitive world will be greater than ever before in our history; and

Whereas the challenges of educating an ethically and culturally diverse student body will be greatly increased; and

Whereas the responsibility for meeting these challenges will fall primarily on public school teachers; and

Whereas our teachers must meet high standards of preparation in all subjects taught;

Be it therefore resolved that the American Association for the Advancement of Science endorse the spirit and direction of the report, "A Nation Prepared: Teachers for the 21st Century," by the Task Force on Teaching as a Profession of the Carnegie Forum on Education and the Economy.

3) *Science Education*, submitted by Rita Peterson and Robert Yager, officers of Section Q (Education):

Whereas American students must have strong academic programs in science and mathematics throughout the elementary and secondary grades if they are to live productive lives in the 21st century, and if they are to make responsible decisions which involve the interface between science, technology, and society; and

Whereas cooperation is imperative between elementary, secondary, and post-secondary segments of education if science and mathematics teachers (Kindergarten through Grade 12) and curricula are to be continuously updated and strengthened;

Therefore be it resolved that the American Association for the Advancement of Science hereby commend all members of the scientific community who have endeavored to strengthen and support science and mathematics teachers and school curricula, and who have contributed to strengthening the science and mathematics academic preparation of students.

Programs in Opportunities in Science

Updating the Council on the programs and activities of the AAAS Office of Opportunities in Science (OOS), Shirley Malcom, head of the Office, gave an illustrated in-depth review that began with sketches of scientists, drawn by ninth and tenth graders, depicting the students' inaccurate perceptions and echoing the current public image of scientists. Dr. Malcom challenged the Council members to help alter the public image of a scientist—usually "white, male, middle-aged, sometimes nerdy or dangerous, single-focused, uncaring, cruel, and wearing a white lab coat"—by including women, minority, and disabled scientists and engineers, and by changing the label to "scientist: anyone curious."

AAAS established the Committee on Opportunities in Science in 1973. In 1975 the scope of the program was expanded to include persons with physical disabilities. Lately, the emphasis has shifted from gaining access to a dual thrust of access and national need for talent.

Explaining that AAAS has had a long-standing commitment to equity in science and engineering, Dr. Malcom referred to OOS objectives that assist AAAS in this mission: seeking to include the concerns of women, minorities, and disabled persons in AAAS programs and policies, within its committees, at its meetings, and to providing opportunities for

individuals representing these groups to serve as officers and committee members; promoting the development of technology which can improve the quality of life for these groups, as well as for all Americans; advancing science and engineering literacy; providing women, minorities, and disabled persons with role models and motivation to attain rewarding positions in science, engineering, and related professions; and ensuring that educational professional opportunities are open to these groups at all levels.

One of the recent major undertakings of OOS has been the Linkages project, funded by the Carnegie Corporation. Through Linkages, community-based groups interact with scientists and engineers, along with the other science resources of the community, to work toward improving science education for women, minority, and disabled students. Many of the AAAS affiliate organizations participate in the AAAS Consortium of Affiliates on Disability Related Issues.

Tribute to the Retiring Executive Officer

With words of warm praise and respect, AAAS Treasurer William T. Golden paid tribute to retiring Executive Officer William D. Carey, citing his wisdom and superb contribution to AAAS during the past 12 years and stating that the Association owes Mr. Carey a debt that can

Chairmen and Secretaries of AAAS Sections

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Hyman Bass
Lynn Arthur Steen
PHYSICS (B)
Herman Feshbach
Rolf M. Sinclair
CHEMISTRY (C)
Norman Hackerman
Jean'ne M. Shreeve
ASTRONOMY (D)
Jay M. Pasachoff
John E. Gaustad
GEOLOGY AND GEOGRAPHY (E)
George Rapp, Jr.
Helen M. McCammon

BIOLOGICAL SCIENCES

(G)
Judith H. Willis
Judith P. Grassle
ANTHROPOLOGY (H)
John E. Yellen
Priscilla Reining
PSYCHOLOGY (J)
Michael I. Posner
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SOCIAL, ECONOMIC, AND POLITICAL SCIENCES (K)
Peter H. Rossi
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HISTORY AND PHILOSOPHY OF SCIENCE (L)
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Henry Blackburn
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Rita W. Peterson
Joseph D. Novak
DENTISTRY (R)
Clifton O. Dummett
Marie U. Nylen
PHARMACEUTICAL SCIENCES (S)
Klaus G. Florey
Betty-ann Hoener

INFORMATION, COMPUTING, AND COMMUNICATION (T)

Joyce Friedman
Elliot R. Siegel
STATISTICS (U)
Ramanathan Gnanadesikan
Joan R. Rosenblatt
ATMOSPHERIC AND HYDROSPHERIC SCIENCES (W)
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William H. Beasley
SOCIETAL IMPACTS OF SCIENCE AND ENGINEERING (X)
Janice G. Hamrin
Rosemary A. Chalk
GENERAL INTEREST IN SCIENCE AND ENGINEERING (Y)
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Executive Director

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never be repaid. The Council members rose in standing tribute to Mr. Carey. Mr. Carey expressed his appreciation to the Council for steadfastly supporting him throughout his years of service.

Strengthening the Annual Meeting

Arthur Herschman, head of Meetings and Publications, reported on the Annual Meeting in progress. He noted a 15 percent increase in paid attendance, an improved situation with the meeting self-contained in a single hotel, and the very successful "Frontiers of Neuroscience" seminar that had attracted over 300 participants despite a second required fee in addition to the Annual Meeting registration fee.

Chairman Lawrence Bogorad reviewed other facets of the meeting, particularly the well-received Fellows' Reception that had been initiated for about 200 Fellows in the Chicago area and their 100 guests. Because of its success, the regional Fellows' Reception will probably become a standard feature at successive annual meetings.

Establishment of New Section Y

Authorized by the Council at its May 1986 meeting, Section Y (General Interest in Science and Engineering) has been established with a full complement of officers. Section X (formerly General) has redefined its purpose and terms of reference, as reflected in its revised name, "Societal Impacts of Science and Engineering." Representing Section Y, its chairman Dael Wolfe, former AAAS Executive Officer, was welcomed by the warm applause of the Council members. The Association now has 22 sections.

In Memory of Ms. Letitia Lestina

Remembered and admired for the notable Christmas science lectures for young people that she initiated and sponsored for many years on behalf of Illinois Science Lecture Association, a participating organization of AAAS, Ms. Lestina died in August 1986. The Council joined in remembrance of her through the following memorial statement prepared by Eugene Parker of the Fermi Institute:

Ms. Lestina was an educator who felt that education can and should be a dynamic force in society. She believed that every young person has the potential to achieve excellence in one thing or another, but that young people cannot aspire to excel unless they have a glimpse of the best. So she founded the Illinois Science Lecture Association in 1971 to see what could be done to activate the potential of teenage students for excellence in science. Her strategy, through the ISLA, was to confront teenage students with the wonders of science and the challenge of science as seen by the current leaders in scientific progress.

The most appropriate memorial to Ms. Lestina is the vigorous continuation of her inspiration.

MARGE WHITE
Executive Office

Cost Savings for Insured Members

Once again members insured in the AAAS Group Term Life Insurance Plan are receiving a premium credit on their 1 April 1987 semiannual bills. The credit is equal to 50 percent of premium contributions paid while insured during the period 1 October 1985 to 30 September 1986. An additional credit of 11 percent is planned for the 1 October semiannual bills.

The granting of these credits is determined annually based on plan experience. This is the third successive year that credits have

become available, resulting in a lower net cost of insurance.

The AAAS plan provides up to \$240,000 of term life insurance coverage in \$15,000 units. It is underwritten by New York Life Insurance Company and is offered as a benefit of AAAS membership. Enrollment in the plan is subject to approval by New York Life.

Any AAAS member who wishes to enroll in the plan should write to the administrator, Smith-Sternau Organization, Inc., Suite 300, 1255 23rd Street, NW, Washington, D.C. 20037.

MARLENE ZENDELL
Membership

International Symposium on Climate and Food Security

An international symposium on climate and food security was held 6 to 9 February 1987 in New Delhi, India. The meeting, which was organized by the AAAS Committee on Climate, the Indian National Science Academy, and the International Rice Research Institute (IRRI), brought together 65 climatologists and agronomists, experts in irrigation and water-use efficiency, agricultural economists, and development planners from 21 countries, to discuss how climatological information can be used to help reduce fluctuations in agricultural output.

Participants at the meeting examined research results and their applications, including ways of exploiting favorable agroclimatic patterns. Systematically applied, these techniques could help achieve more effective use of climatic information, and maintain crop production despite weather and climate fluctuations.

M. S. Swaminathan, director-

general of IRRI, addressed the symposium and stressed that although food stocks are currently in good supply in many areas, there is no cause for complacency. He noted that weather and climate remain the most significant variables in agricultural production. If we are to maintain reliable production in the face of ever-growing world food demand, we must develop and implement systems which provide farmers with practical and timely information.

Roger Revelle, chairman of the AAAS Committee on Climate, reviewed the kinds of impacts expected as a result of a greenhouse climate change. According to Revelle, these changes range in certainty from extremely likely to unknown, with subsequent effects on agriculture also ranging from potentially beneficial to disruptive.

Papers presented at the meeting covered such topics as food supply and demand; climatic variability and crop yields; the role of modeling; climatic vulnerability of major food crops such as rice, wheat, maize, oilseeds, and pulses; social and economic implications of variability in agricultural production including drought and famine; climatic variability on factors of production such as soils, stress, diseases and insects, and post-harvest losses; and strategies for coping with and/or adapting climatic variability as it affects food production.

Other papers discussed climate as a valuable, but underexploited resource. Development planners were urged to give more consideration to climatic factors in planning and managing agriculture at national, regional, and local levels.

Proceedings of the symposium will be published by IRRI in 1988. For additional information, contact David Burns, Staff Officer, AAAS Committee on Climate.

DAVID BURNS
AAAS Committee on Climate