

Whereas the present international system contains a dangerously high probability of catastrophic war.

Therefore be it resolved that the AAAS commends Congress and the President for appointing a Commission on proposals for the National Academy of Peace and Conflict Resolution and expresses the hope that such an Academy will be established, with the ability to mobilize the scientific community for information exchange and research into the processes by which stable peace and disarmament can be generated and the probability of war reduced.

### Memorial Statement

The Council approved the following statement drafted by T. C. Byerly on behalf of the Board.

**Elvin Charles Stakman,  
1885-1979**

E. C. Stakman was a major participant in the development and implementation of methods and institutions for the control of wheat rusts. His contribution to their control is a major and continuing factor in the assurance of the world's bread supplies. Rusts are fungal diseases which have destroyed bread wheat crops in many countries. Losses in the USA

in the 1916 war year were estimated at two hundred million bushels.

Dr. Stakman was co-discoverer of the first biological race of *Puccinia graminis tritici*, the phytopathogen. More than 200 such races are now known. He organized the barberry eradication program initiated in the U.S. Department of Agriculture in 1917 to eliminate this host plant on which the rust pathogen undergoes sexual reproduction, resulting in new, sometimes virulent, biological rust races. He organized the Federal Cereal Rust Laboratory and participated in the establishment of International Rust Nurseries that are now operated in more than fifty countries to identify new, virulent rust races so that new wheats resistant to them may be bred promptly.

Dr. Stakman participated in the establishment of the cooperative Mexico-Rockefeller Foundation corn and wheat improvement program (CIMMYT) in 1943. Wheats developed in that program have increased the bread supplies for Mexico and for many other countries.

He was President of the AAAS in 1949. He served on the United States Atomic Energy Commission, 1948-54, and on the National Science Board, 1951-54. He was author or co-author of more than 300 scientific papers and two books. He was given six honorary doctorates by universities in the United States, England, and Germany. He received the first Award of Distinction from the American Phy-

topathological Society and was the recipient of the first Cosmos Club Award.

The AAAS Board of Directors and Council join in the tribute to Dr. Stakman which was published in the March 1979 issue of *Phytopathology*: "In his passing, we his former students and associates, and men of many degrees in many lands, feel a sense of deep personal loss—he was a mighty champion for science, intellectual enlightenment, and improvement of human welfare."

### Sense-of-the-Meeting Statements

The Council adopted two statements drafted by Robert D. Allen, as follows:

1) *Genocide*. It is the sense of the meeting that the AAAS deplores any form of genocide, regardless of its motivation or causes. Consequently, the recent and continuing loss of a substantial portion of the Cambodian population causes in every member a sense of profound helplessness and despair.

2) *Amazonian Ecosystem and Human Populations*. It is the sense of the meeting that the Chair be asked to express to the Brazilian Government, by whatever means is appropriate, the concern of the Council for the integrity of the Amazonian ecosystem and the welfare and continued existence of the indigenous Amazonian human populations.

## AAAS Officers, Staff, Committees, and Representatives for 1980

Listed below are members of the Board of Directors, staff, and Editorial Boards of *Science* and *Science 80*; officers of the three regional divisions, the National Association of Academies of Science, and the AAAS sections; members of committees; and representatives to other organizations.

Council delegates elected by the electorates and Council representatives of Section Committees are listed under the corresponding sections. Council members appointed by the divisions and the National Association of Academies of Science are listed under those groups. Members of the Board of Directors also serve on the Council.

Terms of election or appointment expire as follows: Editorial Board of *Science*—on 31 December of the years indicated; AAAS representatives to other

organizations—at various times in the years indicated; all others—on 8 January of the years indicated.

### AAAS Officers and Staff

#### Board of Directors

Retiring President and Chairman of the Board of Directors: Kenneth E. Boulding (1981), Institute of Behavioral Science, University of Colorado, Boulder, Colorado 80309

President: Frederick Mosteller (1982), Department of Biostatistics, Harvard School of Public Health, Boston, Massachusetts 02115

President-Elect: D. Allan Bromley (1983), Department of Physics, Yale University, New Haven, Connecticut 06520

Treasurer: William T. Golden, 40 Wall Street, New York 10005

Executive Officer: William D. Carey, AAAS

Eloise E. Clark (1982), National Science Foundation, 1800 G Street, NW, Washington, D.C. 20550

Martin M. Cummings (1981), National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20209

Renée C. Fox (1981), Department of Sociology, University of Pennsylvania, Philadelphia, Pennsylvania 19104

Nancie L. Gonzalez (1984), Vice Chancellor for Academic Affairs, University of Maryland, College Park, Maryland 20742

Anna J. Harrison (1983), Carr Laboratory, Mount Holyoke College, South Hadley, Massachusetts 01075

Russell W. Peterson (1982), National Audubon Society, 950 Third Avenue, New York 10022

John C. Sawhill (1983), Department of Energy, Forrestal Building, Room 7B252, Washington, D.C. 20585

Harriet Zuckerman (1984), Department of Sociology, Columbia University, New York 10027

#### Staff

#### Executive Office

Executive Officer and Publisher: William D. Carey

Associate Executive Officer: J. Thomas Ratchford

Assistant to the Executive Officer: Catherine Borras

Development: Jeannette Wedel

Comptroller: William A. Chapman

General Business, Investments: Hans Nussbaum

Administration: William R. Engelman

Membership Recruitment and Public Information: Carol Rogers

Committee on Scientific Freedom and Responsibility: Rosemary A. Chalk

#### *Editorial Center (Science)*

Editor: Philip H. Abelson

Managing Editor: Robert V. Ormes

Assistant Managing Editor: John E. Ringle

Production Editor: Ellen E. Murphy

News Editor: Barbara J. Culliton

Associate Editors: Eleanore Butz, Mary Dorfman, Sylvia Eberhart, and Ruth Kulstad

Book Review Editor: Katherine Livingston

Letters Editor: Christine Karlik

Cover Editor: Grayce Finger

#### *Editorial Center (Science 80)*

Editor: Allen L. Hammond

Managing Editor: John L. Wilhelm

Board of Editors: Alfred Meyer and Eric Schrier

Art Director: Rodney C. Williams

Copy Chief: Bonnie Bilyeu Gordon

General Manager: Owen J. Lipstein

Circulation Director: Carol Carey Lepere

Production Manager: Prudence G. Harris

Advertising Director: Marjorie Weiss

#### *Programs Center*

Office of International Science: J. Thomas Ratchford, Acting Head

Office of Opportunities in Science: Shirley M. Malcom, Head

Office of Public Sector Programs: J. Thomas Ratchford, Head

Office of Science Education: Arthur H. Livermore, Head

#### *Meetings and Publications Center*

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Meetings Manager: Elisabeth Zeutschel

Managing Editor, Publications: Kathryn Wolff

Production Manager, Publications: Anne Holdsworth

Product Marketing Manager: Stephen Pike

Editor, *Science Books & Films*: Michele Newman

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Philip H. Abelson, chairman

Members whose terms end in 1980: Richard E. Balzhiser, Wallace S. Broecker, Clement L. Markert, Frank W. Putnam, Bryant W. Rossiter, Vera C. Rubin, Maxine F. Singer, Paul E. Waggoner, and F. Karl Willenbrock

Members whose terms end in 1981: Peter Bell, Bryce Crawford, Jr., E. Peter Geiduschek, Emil W. Haury, Sally Gregory Kohlstedt, Mancur L. Olson, Peter H. Raven, W. F. Slichter, and Frederic G. Worden

#### **Editorial Board of Science 80**

Philip H. Abelson, Lewis Branscomb, Janet Welsh Brown, Emilio Q. Daddario, Clifford Geertz, Stephen J. Gould, Warren Kornberg, Jerome Lettvin, Carolee McBee, David Perlman, and Carl Sagan. Anna J. Harrison, Board representative.

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Executive Secretary: T. Neil Davis

Council Delegate: T. Neil Davis

##### **Pacific Division**

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President-Elect: Beatrice Sweeney

Executive Director: Alan E. Leviton

Council Delegate: Alan E. Leviton

##### **Southwestern and Rocky Mountain Division**

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#### **Officers of the National Association of Academies of Science**

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Archivist: Lynn E. Elfner

Council Delegates: Richard J. Raridon and Charles M. Vaughn

AAAS representative: Arthur H. Livermore

#### **Section Officers**

##### **Section A (Mathematics)**

Retiring Chairperson: Garrett Birkhoff (1981)

Chairperson: Herbert B. Keller (1982)  
Chairperson-Elect: Ralph P. Boas (1983)

Secretary: Ronald Graham (1982), Bell Laboratories, Murray Hill, N.J. 07974

Members-at-Large, Section Committee: Julia Robinson (1981), R. Creighton Buck (1982), Donald S. Cohen (1983), and Michael Golomb (1984)

Electorate Nominating Committee: Anneli Lax (1981), Daniel Zelinsky (1981), Leonard D. Berkovitz (1982), Harold Grad (1982), Gian-Carlo Rota (1983), and Alice T. Schafer (1983)

Council Delegate of the Electorate: Calvin C. Moore (1983)

Council Representative of the Section Committee: Garrett Birkhoff (1981)

##### **Section B (Physics)**

Retiring Chairperson: Arthur L. Schawlow (1981)

Chairperson: William M. Fairbank (1982)

Chairperson-Elect: Maurice Goldhaber (1983)

Secretary: Rolf M. Sinclair (1984), National Science Foundation, 1800 G Street, NW, Washington, D.C. 20550

Members-at-Large, Section Committee: Edward C. Creutz (1981), A. M. Clogston (1982), Peter L. Bender (1983), and Philip Anderson (1984)

Electorate Nominating Committee: Ann C. Birge (1981), P. James E. Peebles (1981), Kenneth W. Ford (1982), Eugen Merzbacher (1982), David Bodansky (1983), and Mary L. Shoaf (1983)

Council Delegates of the Electorate: Peter G. Bergmann (1983), Leon N. Cooper (1983), and Melba Phillips (1983)

Council Representative of the Section Committee: Arthur L. Schawlow (1981)

##### **Section C (Chemistry)**

Retiring Chairperson: Fred Basolo (1981)

Chairperson: H. S. Gutowsky (1982)

Chairperson-Elect: Robert W. Parry (1983)

Secretary: William L. Jolly (1982), Department of Chemistry, University of California, Berkeley 94720

Members-at-Large, Section Committee: Joel Selbin (1981), Sidney W. Benson (1982), Herbert A. Laitinen (1983), and John C. Sheehan (1984)

Electorate Nominating Committee: Roger G. Bates (1981), Elizabeth K. Weisburger (1981), Anita H. Lewin

(1982), Blaine C. McKusick (1982), Alfred E. Brown (1983), and Robert B. Carlin (1983)

Council Delegates of the Electorate: Marjorie C. Caserio (1983), Harry S. Mosher (1983), Jean'ne M. Shreeve (1983), M. Kent Wilson (1983), and Albert C. Zetlemoyer (1983)

Council Representative of the Section Committee: Fred Basolo (1981)

#### **Section D (Astronomy)**

Retiring Chairperson: Peter S. Conti (1981)

Chairperson: Tobias Owen (1982)

Chairperson-Elect: Owen Gingerich (1983)

Secretary: Donat G. Wentzel (1982), Astronomy Program, University of Maryland, College Park 20742

Members-at-Large, Section Committee: Robert B. Partridge (1981), William M. Irvine (1982), Alar Toomre (1983), and Helmut A. Abt (1984)

Electorate Nominating Committee: Clark R. Chapman (1981), George Wallerstein (1981), Richard C. Henry (1982), Nancy D. Morrison (1982), Katharine B. Gebbie (1983), and Robert E. Murphy (1983)

Council Delegate of the Electorate: George O. Abell (1983)

Council Representative of the Section Committee: Peter S. Conti (1981)

#### **Section E (Geology and Geography)**

Retiring Chairperson: Linn Hoover (1981)

Chairperson: Doris Malkin Curtis (1982)

Chairperson-Elect: Jack A. Simon (1983)

Secretary: Ramon E. Bisque (1981), Earth Sciences, Inc., Highway 93 North, Golden, Colo. 80401

Members-at-Large, Section Committee: Robert E. Wallace (1981), Dorothy B. Vitaliano (1982), Charles J. Mankin (1983), and William H. Matthews III (1984)

Electorate Nominating Committee: Daniel F. Merriam (1981), William A. Oliver (1981), Allen F. Agnew (1982), John C. Maxwell (1982), Paul L. Hilpman (1983), and C. John Mann (1983)

Council Delegates of the Electorate: Charles L. Drake (1983) and Helen M. McCammon (1983)

Council Representative of the Section Committee: Linn Hoover (1981)

#### **Section G (Biological Sciences)**

Retiring Chairperson: Donald S. Farnner (1981)

Chairperson: Thomas Eisner (1982)

Chairperson-Elect: John A. Moore (1983)

Secretary: Walter Chavin (1982), Department of Biological Sciences, Wayne State University, Detroit, Mich. 48202

Members-at-Large, Section Committee: Lawrence Bogorad (1981), Dorothy M. Skinner (1982), Michael J. Greenberg (1983), and David Epel (1984)

Electorate Nominating Committee: Robert K. Josephson (1981), Charlotte P. Mangum (1981), Ann E. Kammer (1982), Linda H. Mantel (1982), Judith P. Grassle (1983), and Audrey E. V. Haschemeyer (1983)

Council Delegates of the Electorate: Ronald H. Alvarado (1983), Ruth R. Bennett (1983), Lionel F. Jaffee (1983), Florence Moog (1983), Jane M. Oppenheimer (1983), Howard L. Sanders (1983), Betty M. Twarog (1983), and Bruce L. Umminger (1983)

Council Representative of the Section Committee: Donald S. Farnner (1981)

#### **Section H (Anthropology)**

Retiring Chairperson: James B. Watson (1981)

Chairperson: Edward I. Fry (1982)

Chairperson-Elect: Alan R. Beals (1983)

Secretary: Priscilla Reining (1982), Office of International Science, AAAS, 1776 Massachusetts Avenue, NW, Washington, D.C. 20036

Members-at-Large, Section Committee: M. Margaret Clark (1981), Catharine McClellan (1982), William H. Davenport (1983), and Don E. Dumond (1984)

Electorate Nominating Committee: Richard A. Gould (1981), Douglas Osborne (1981), Arthur J. Jelinek (1982), Jane B. Lancaster (1982), Robert L. Carneiro (1983), and Nancy M. Williams (1983)

Council Delegate of the Electorate: Glynn Isaac (1983)

Council Representative of the Section Committee: James B. Watson (1981)

#### **Section J (Psychology)**

Retiring Chairperson: Frances K. Graham (1981)

Chairperson: Lloyd G. Humphreys (1982)

Chairperson-Elect: George A. Miller (1983)

Secretary: Meredith P. Crawford (1982), American Psychological Association, 1200 17th Street, NW, Washington, D.C. 20036

Members-at-Large, Section Committee: Mary R. Haworth (1981), Amado

M. Padilla (1982), Nancy S. Anderson (1983), and Alvin M. Liberman (1984)

Electorate Nominating Committee: Dorothy H. Eichorn (1981), Wendell R. Garner (1981), John I. Lacey (1982), Janet T. Spence (1982), Charles A. Kiesler (1983), and Gardner Lindzey (1983)

Council Delegates of the Electorate: Robert M. Gagne (1982), M. Brewster Smith (1982), and Bernice M. Wenzel (1982)

Council Representative of the Section Committee: Frances K. Graham (1981)

#### **Section K (Social and Economic Sciences)**

Retiring Chairperson: David L. Sills (1981)

Chairperson: Kingsley Davis (1982)

Chairperson-Elect: James G. March (1983)

Secretary: Gillian Lindt (1982), Department of Religion, Columbia University, New York 10027

Members-at-Large, Section Committee: Guy E. Swanson (1981), Wendell Bell (1982), David Mechanic (1983), and Seymour M. Lipset (1984)

Electorate Nominating Committee: Eliot Freidson (1981), Harriet Zuckerman (1981), Blanche Geer (1982), Mary E. W. Goss (1982), Judith Blake (1983), and Renée C. Fox (1983)

Council Delegates of the Electorate: Judith Blake (1982) and Charles Tilly (1982)

Council Representative of the Section Committee: David L. Sills (1981)

#### **Section L (History and Philosophy of Science)**

Retiring Chairperson: Melvin Kranzberg (1981)

Chairperson: Brooke Hindle (1982)

Chairperson-Elect: Harry Woolf (1983)

Secretary: Diana L. Hall (1982), Department of History, 226 Bay State Road, Boston University, Boston, Mass. 02215

Members-at-Large, Section Committee: Ruth S. Cowan (1981), David L. Hull (1982), Marjorie Grene (1983), and Noretta Koertge (1984)

Electorate Nominating Committee: William Coleman (1981), John E. Murdoch (1981), Marx W. Wartofsky (1982), Patricia Woolf (1982), Ronald N. Giere (1983), and Roger H. Stuewer (1983)

Council Delegate of the Electorate: Stephen J. Gould (1982)

Council Representative of the Section Committee: Melvin Kranzberg (1981)

#### **Section M (Engineering)**

Retiring Chairperson: Daniel C. Drucker (1981)

Chairperson: H. Norman Abramson (1982)

Chairperson-Elect: Michael Michaelis (1983)

Secretary: Donald E. Marlowe (1982), American Society for Engineering Education, Suite 400, 1 Dupont Circle, NW, Washington, D.C. 20036

Members-at-Large, Section Committee: Lawrence J. Giacoletto (1981), Donald L. Katz (1982), Robert M. Saunders (1983), and Andrew P. Sage (1984)

Electorate Nominating Committee: L. L. Palmer (1981), Erman A. Pearson (1981), Michael Michaelis (1982), Donald B. Sinclair (1982), Raymond L. Bisplinghoff (1983), and F. Karl Willenbrock (1983)

Council Delegates of the Electorate: Robert F. Cotellessa (1982), Frederic A. L. Holloway (1982), and John C. Martin (1982)

Council Representative of the Section Committee: Daniel C. Drucker (1981)

#### Section N (Medical Sciences)

Retiring Chairperson: Theodore Cooper (1981)

Chairperson: Philip K. Bondy (1982)

Chairperson-Elect: Morton D. Bogdonoff (1983)

Secretary: Leah M. Lowenstein (1982), School of Medicine, Boston University, 80 East Concord Street, Boston, Mass. 02215

Members-at-Large, Section Committee: Steven M. Horvath (1981), Helen M. Ranney (1982), Ruth Pick (1983), and Victor A. McKusick (1984)

Electorate Nominating Committee: Morton D. Bogdonoff (1981), Carl W. Gottschalk (1981), Alfred P. Fishman (1982), Estelle R. Ramey (1982), Alexander Leaf (1983), and James V. Warren (1983)

Council Delegates of the Electorate: Robert E. Anderson (1982), William B. Bean (1982), Horace W. Davenport (1982), Louis Lasagna (1982), Kenneth L. Melmon (1982), Mildred T. Stahlman (1982), James H. R. Sutherland (1982), and Jay Tepperman (1982)

Council Representative of the Section Committee: Theodore Cooper (1981)

#### Section O (Agriculture)

Retiring Chairperson: J. Lawrence Apple (1981)

Chairperson: Roger L. Mitchell (1982)

Chairperson-Elect: Martin A. Massengale (1983)

Secretary: Coyt T. Wilson (1982), 2010 Linwood Lane, NW, Blacksburg, Va. 24060

Members-at-Large, Section Committee: Martin M. Massengale (1981),

Steven C. King (1982), Orville G. Bentley (1983), and Thomas S. Ronningen (1984)

Electorate Nominating Committee: Keith Huston (1981), W. I. Thomas (1981), Roy G. Creech (1982), Johnny W. Pendleton (1982), Frank H. Baker (1983), and John Pesek (1983)

Council Delegate of the Electorate: Roy Lovvorn (1982)

Council Representative of the Section Committee: J. Lawrence Apple (1981)

#### Section P (Industrial Science)

Retiring Chairperson: Herbert I. Fushfeld (1981)

Chairperson: John D. Caplan (1982)

Chairperson-Elect: John Diebold (1983)

Secretary: Robert L. Stern (1982), The Conference Board, 1755 Massachusetts Avenue, NW, Washington, D.C. 20036

Members-at-Large, Section Committee: J. Kenneth Craver (1981), Lawrence M. Kushner (1982), John Diebold (1983), and Robert S. Cutler (1984)

Electorate Nominating Committee: John D. Caplan (1981), Dayton H. Clewell (1981), Joseph P. Martino (1982), John F. Socolofsky (1982), Ward J. Haas (1983), and Robert H. Pry (1983)

Council Delegate of the Electorate: Philip M. Arnold (1982)

Council Representative of the Section Committee: Herbert I. Fushfeld (1981)

#### Section Q (Education)

Retiring Chairperson: Fletcher G. Watson (1981)

Chairperson: Joseph D. Novak (1982)

Chairperson-Elect: Ann C. Howe (1983)

Secretary: Roger G. Olstad (1984), 115 Miller, DQ-12, University of Washington, Seattle 98195

Members-at-Large, Section Committee: David H. Ost (1981), Rita W. Peterson (1982), O. Roger Anderson (1983), and Willard J. Jacobson (1984)

Electorate Nominating Committee: Jacob W. Blankenship (1981), Joyce Swartney (1981), J. Dudley Herron (1982), George T. O'Hearn (1982), Charlotte M. Boener (1983), and Marvin Druger (1983)

Council Delegate of the Electorate: David H. Ost (1981)

Council Representative of the Section Committee: Fletcher G. Watson (1981)

#### Section R (Dentistry)

Retiring Chairperson: Carl J. Witkop, Jr. (1981)

Chairperson: Robert J. Genco (1982)

Chairperson-Elect: Maynard K. Hine (1983)

Secretary: Harold M. Fullmer (1983), Institute of Dental Research, University of Alabama, Birmingham 35294

Members-at-Large, Section Committee: Gordon H. Rovelstad (1981), Andrew D. Dixon (1982), James W. Bawden (1983), and Max A. Listgarten (1984)

Electorate Nominating Committee: Wallace D. Armstrong (1981), Finn Brudevold (1981), Charles J. Burstone (1982), Marjorie L. Swartz (1982), Samuel Pruzansky (1983), and Gordon H. Rovelstad (1983)

Council Delegate of the Electorate: Robert J. Fitzgerald (1981)

Council Representative of the Section Committee: Carl J. Witkop, Jr. (1981)

#### Section S (Pharmaceutical Sciences)

Retiring Chairperson: Samuel Elkin (1981)

Chairperson: David A. Knapp (1982)

Chairperson-Elect: Anthony P. Simonelli (1983)

Secretary: Robert A. Wiley (1983), School of Pharmacy, University of Kansas, Lawrence 66045

Members-at-Large, Section Committee: Michael A. Schwartz (1981), Muriel C. Vincent (1981), Leslie Z. Benet (1982), and Louis A. Luzzi (1983)

Electorate Nominating Committee: Stanley A. Kaplan (1981), Joseph P. LaRocca (1981), Arthur R. Mlodozeniec (1982), Richard H. Reuning (1982), Martin I. Blake (1983), and William J. Jusko (1983)

Council Delegate of the Electorate: Sidney A. Rosenbluth (1981)

Council Representative of the Section Committee: Samuel Elkin (1981)

#### Section T (Information, Computing, and Communication)

Retiring Chairperson: Mary E. Corning (1981)

Chairperson: Henry M. Kissman (1982)

Chairperson-Elect: George W. Tressel (1983)

Secretary: Madeline M. Henderson (1982), 5021 Alta Vista Road, Bethesda, Md. 20014

Members-at-Large, Section Committee: Richard H. Belknap (1981), Martha E. Williams (1982), Marshall C. Yovits (1983), and Lois F. Lunin (1984)

Electorate Nominating Committee: Manfred Kochen (1981), Rita G. Lerner (1981), Julie A. C. Virgo (1982), Harold Wooster (1982), Susan Crawford (1983), and Vladimir Slamecka (1983)

Council Delegate of the Electorate: Robert S. Taylor (1981)

Council Representative of the Section Committee: Mary E. Corning (1981)

## Section U (Statistics)

Retiring Chairperson: Richard L. Anderson (1981)

Chairperson: Oscar Kempthorne (1982)

Chairperson-Elect: Stephen E. Fienberg (1983)

Secretary: Ezra Glaser (1982), 2839 West George Mason Road, Falls Church, Va. 22042

Members-at-Large, Section Committee: Janet D. Elashoff (1981), David C. Hoaglin (1982), Morris H. DeGroot (1983), and Stephen M. Stigler (1984)

Electorate Nominating Committee: Stephen E. Fienberg (1981), Paul W. Holland (1981), Peter J. Bickel (1982), Donald W. Marquardt (1982), David Blackwell (1983), and Judith M. Tanur (1983)

Council Delegate of the Electorate: Cuthbert Daniel (1981)

Council Representative of the Section Committee: Richard L. Anderson (1981)

## Section W (Atmospheric and Hydrospheric Sciences)

Retiring Chairperson: Eugene W. Bierly (1981)

Chairperson: Edward S. Epstein (1982)

Chairperson-Elect: Julius London (1983)

Secretary: Glenn R. Hilst (1982), Electric Power Research Institute, P.O. Box 10412, Palo Alto, Calif. 94303

Members-at-Large, Section Committee: John C. Freeman (1981), R. E. Munn (1982), Franklin A. Gifford, Jr. (1983), and Hans A. Panofsky (1984)

Electorate Nominating Committee: Lester Machta (1981), Margaret L. Mooney (1981), Donna Wells Blake (1982), Richard S. Greenfield (1982), Kristina B. Katsaros (1983), and Eric B. Kraus (1983)

Council Delegate of the Electorate: Joshua Z. Holland (1981)

Council Representative of the Section Committee: Eugene W. Bierly (1981)

## Section X (General)

Retiring Chairperson: Ruth B. Pitt (1981)

Chairperson: Vera Kistiakowsky (1982)

Chairperson-Elect: Herman Pollack (1983)

Secretary: S. Fred Singer (1983), 4012 Jewel Street, Alexandria, Va. 22312

Members-at-Large, Section Committee: Dael Wolffe (1981), Manfred D. Engelmann (1982), Irene Tinker (1983), and Frederick Seitz (1984)

Electorate Nominating Committee:

Vernice Anderson (1981), Rodney W. Nichols (1981), Rosemary A. Chalk (1982), Chauncey Starr (1982), E. Leigh Secrest (1983), and George C. Sponsler (1983)

Council Delegate of the Electorate: Herbert Scoville, Jr. (1981)

Council Representative of the Section Committee: Ruth B. Pitt (1981)

## Committees and Representatives

### Standing Committees

#### Council Affairs

D. Allan Bromley (1982), chairman  
M. Michelle Balcomb (1981)  
T. Neil Davis (1981)  
Frederick Mosteller (1981)  
Herbert Scoville, Jr. (1981)  
Mildred T. Stahlman (1981)  
William D. Carey, ex officio, secretary  
(New members in the process of being elected.)

#### Executive Committee of the Board of Directors

Kenneth E. Boulding, chairman  
D. Allan Bromley  
William D. Carey  
Martin M. Cummings  
William T. Golden  
Frederick Mosteller

#### Investment and Finance

Malcolm B. Smith (1983), chairman  
Philip H. Abelson (1981)  
Richard Fischer (1982)  
Barbara V. Hertz (1981)  
Harold F. Linder (1983)  
Arthur Ross (1983)  
William T. Golden, ex officio  
William D. Carey, ex officio  
Hans Nussbaum, staff representative

#### Nominations

Robert D. Allen (1981)  
Helen S. Astin (1982)  
Lewis M. Branscomb (1982)  
Mary E. Clutter (1982)  
William A. Fowler (1981)  
Frank E. Horton (1981)  
Lawrence M. Kushner (1981)  
Frederick Mosteller (1981)  
Warren M. Washington (1982)  
William D. Carey, staff officer

### Other Committees

#### AAAS-ABA National Conference of Lawyers and Scientists

Emilio Q. Daddario, AAAS cochairman

Milton Katz, ABA cochairman  
Richard H. Bolt  
Ruth M. Davis  
Vincent P. Dole

Renée C. Fox  
David A. Hamburg  
Charles D. Herz  
Harold Horvitz  
Howard T. Markey  
Sharon D. Meyers  
Susan Hubbell Nycum  
David J. Rose  
Edmund D. Spaeth, Jr.  
William D. Carey, ex officio  
Albert Teich, AAAS staff representative

Terry L. Kramer, ABA staff representative

William Thomas, American Bar Foundation staff representative

#### Arid Lands

Cyrus M. McKell (1982), chairman  
John W. Bennett (1981)  
Bahe Billy (1981)  
Michael H. Glantz (1983)  
John W. Hernandez (1982)  
Bill L. Long (1983)  
Fernando Medellin-Leal (1981)  
Lora M. Shields (1981)  
Elinor C. Terhune (1982)  
Priscilla Reining, staff representative

#### Climate

Roger Revelle, chairman  
George E. Brown, Jr.  
David Gates  
Robert Kates  
Nathan Keyfitz  
J. Murray Mitchell  
William Nordhaus  
Harry Perry  
Dean F. Peterson  
David Pimentel  
Walter Orr Roberts  
Robert M. White  
David M. Burns, staff representative

#### Opportunities in Science

Sally Maria Hardy (1983), chairperson  
Candido de Leon (1982)  
Bernard Ortiz de Montellano (1982)  
Walter R. Eckelmann (1982)  
Etta Falconer (1983)  
Madeline R. Lee (1983)  
Clifton A. Poodry (1981)  
Julian Samora (1981)  
I. Richard Savage (1981)  
Lawrence A. Scadden (1982)  
Nansie S. Sharpless (1982)  
Albert J. Snow (1982)  
Shien-Biau Woo (1983)  
William D. Carey, ex officio  
Shirley M. Malcom, staff representative

#### Public Understanding of Science

John G. Truxal (1983), chairman  
Joseph Bordogna (1983)  
Robert A. Finnell (1983)

Dennis Flanagan (1982)  
 Rae Goodell (1982)  
 Jeffrey Kirsch (1982)  
 W. Robert Marshall (1983)  
 Victor McElheny (1982)  
 Paul J. Sullivan (1983)  
 Walter Sullivan (1981)  
 William T. Golden, Board representative  
 William D. Carey, ex officio  
 William G. Wells, Jr., staff representative

*Science, Engineering, and Public Policy*  
 Melvin Kranzberg (1981), chairman  
 R. Darryl Banks (1983)  
 Gerald P. Dinneen (1983)  
 Phyllis Kahn (1981)  
 Wesley A. Kuhrt (1982)  
 Patricia McFate (1982)  
 Blaine C. McKusick (1983)  
 Richard R. Nelson (1981)  
 Rodney W. Nichols (1983)  
 Benjamin S. P. Shen (1981)  
 R. H. Thornton (1983)  
 Irvin L. White (1983)  
 Philip Yeager (1981)  
 Eloise E. Clark, Board representative  
 William D. Carey, ex officio  
 Patricia S. Curlin, staff representative

*Scientific Freedom and Responsibility*  
 John T. Edsall (1981), chairman  
 Robert Baum (1981)  
 Herman Feshbach (1982)  
 H. Bentley Glass (1981)  
 Esther A. H. Hopkins (1983)  
 Jessica Tuchman Mathews (1982)  
 Dorothy Nelkin (1983)  
 Warren D. Niederhauser (1983)  
 Joel Primack (1981)  
 Peter Raven-Hansen (1983)  
 Leonard M. Rieser (1982)  
 Frank von Hippel (1981)  
 Fletcher G. Watson (1982)  
 Rosemary A. Chalk, staff representative

**Representatives to Other Organizations**  
*American National Standards Institute Committee (C42) on Definitions of Electrical Terms*  
 Charles R. Westgate

*Gordon Research Conferences Board of Trustees*  
 Philip H. Abelson

*National Selection Committee, National Inventors Hall of Fame*  
 Robert H. Rines

*American Association for Accreditation of Laboratory Animal Care*  
 Edward C. Melby, Jr. (1980)

*American Association for Laboratory Animal Science, Advisory Committee*  
 Edward C. Melby, Jr.

*American National Standards Institute Committee (N44) on Equipment and Materials for Medical Radiation Application*  
 N. Suntharalingam

*Interiencia Association*  
 Philip H. Abelson  
 Roger Revelle  
 Leonard M. Rieser  
 Walter Orr Roberts

*Scientific Manpower Commission*  
 Nina Matheny Roscher (1981)  
 Robert L. Stern (1981)  
 Michelle Aldrich, staff liaison, AAAS

*U.S. National Commission for UNESCO*  
 Gerald Holton (1980)

## AAAS-Newcomb Cleveland Prize

### To Be Awarded for an Article or a Report Published in *Science*

The AAAS-Newcomb Cleveland Prize is awarded annually to the author of an outstanding paper published in *Science* from August through July. This competition year starts with the 3 August 1979 issue of *Science* and ends with that of 25 July 1980. The value of the prize is \$5000; the winner also receives a bronze medal.

Reports and Articles that include original research data, theories, or synthesis and are fundamental contributions to basic knowledge or technical achievements of far-reaching consequence are eligible for consideration for the prize. The paper must be a first-time publication of the author's own work. Reference to pertinent earlier work by the author may be included to give perspective.

Throughout the year, readers are invited to nominate papers appearing in the Reports or Articles sections. Nominations must be typed, and the following information provided: the title of the paper, issue in which it was published, author's name, and a brief statement of justification for nomination. Nominations should be submitted to AAAS-Newcomb Cleveland Prize, AAAS, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005. Final selection will rest with a panel of distinguished scientists appointed by the Board of Directors.

The award will be presented at a session of the annual meeting. In case of multiple authorship, the prize will be divided equally between or among the authors.