

## AAAS Annual Elections: Preliminary Announcement

The Association's 1990 elections for general and section officers will be held in late August. All members will receive a general ballot for election of the president-elect, members of the Board of Directors, and members of the Committee on Nominations. Members registered in at least one electorate (section) will also receive a ballot for election of section chair-elect, member-at-large of the section committee, and members of the Electorate Nominating Committee for that electorate. Members enrolled in the electorates of Sections J, K, L, M, N, O, and P will also elect Council delegates. Those members who are enrolled in second and third electorates will receive separate ballots for election of section officers for those electorates.

Candidates for all positions are listed below. Additional names may be placed in nomination for any position by petition submitted to the Executive Officer not later than 16 July. Petitions nominating candidates for president-elect, members of the Board, or members of the Committee on Nominations must bear the signatures of at least 100 members of the Association. Petitions nominating candidates for any electorate or section position must bear the signatures of at least 50 members of the electorate. A petition to place an additional name in nomination for any position must be accompanied by the nominee's curriculum vitae and statement of acceptance of nomination.

Biographical information about the following candidates

will be enclosed with the ballot mailed to members in August.

### General Election

**President-Elect:** Paul E. Gray, Massachusetts Institute of Technology; F. Sherwood Rowland, University of California, Irvine.

**Board of Directors:** Daniel C. Drucker, University of Florida, Gainesville; John H. (Jack) Gibbons, Office of Technology Assessment; Jean'ne M. Shreeve, University of Idaho, Moscow; Warren M. Washington, National Center for Atmospheric Research, Boulder.

**Committee on Nominations:** Bill G. Aldridge, National Science Teachers Association, Washington, D.C.; Ernest Ambler, Arlington, Virginia; Ernestine Friedl, Princeton University; Paul Goldhaber, Harvard School of Dental Medicine; Charles E. Hess, U.S. Department of Agriculture; Shirley M. McBay, Massachusetts Institute of Technology; John H. Moore, George Mason University, Arlington, Virginia; Luther S. Williams, National Science Foundation, Washington, DC.

### Electorate Elections

#### Section A—Mathematics

**Chair-Elect:** Donald G. M. Anderson, Harvard University; Alice T. Schafer, Marymount University, Arlington, Virginia.

**Member-at-Large of the Section Committee:** Marian Boykan Pour-El, University of Minnesota, Minneapolis; J. Ernest Wilkins, Jr., Chicago.

**Members of the Electorate Nominating Committee:** Melvyn Ciment, National Science Foundation; Patricia J. Eberlein, State University of New York, Buffalo; Mary Beth Ruskai, University of Lowell, Lowell, Massachusetts; Jean E. Taylor, Rutgers University.

#### Section B—Physics

**Chair-Elect:** John P. Schiffer, Argonne National Laboratory; Sam Treiman, Princeton University.

**Member-at-Large of the Section Committee:** John W. Negele, Massachusetts Institute of Technology; Frank Sciulli, Columbia University.

**Members of the Electorate Nominating Committee:** Michael L. Knotek, Battelle Pacific Northwest Laboratories, Richland, WA; Lewis H. Nossanow, University of California, Irvine; Vic Viola, Indiana University, Bloomington; Joseph Weneser, Brookhaven National Laboratory.

#### Section C—Chemistry

**Chair-Elect:** Newman M. Bortnick,

Rohm & Hass Co., Bristol, Pennsylvania; Alvin L. Kwiram, University of Washington, Seattle.

**Member-at-Large of the Section Committee:** Ronald Breslow, Columbia University; Jeanette G. Grasselli, Ohio University, Athens.

**Members of the Electorate Nominating Committee:** Edwin D. Becker, National Institutes of Health; Glenn A. Berchtold, Massachusetts Institute of Technology; Jerome A. Berson, Yale University; Thomas J. Meyer, University of North Carolina, Chapel Hill.

#### Section D—Astronomy

**Chair-Elect:** Susan M. Simkin, Michigan State University, East Lansing; Edward L. Wright, University of California, Los Angeles.

**Member-at-Large of the Section Committee:** Robert M. Hjellming, National Radio Astronomy Observatory, Socorro, New Mexico; K. Y. Lo, University of Illinois, Urbana.

**Members of the Electorate Nominating Committee:** Michael F. A'Hearn, University of Maryland, College Park; Tom Bania, Boston University; Karen B. Kwitter, Williams College, Williamstown, Massachusetts; Harvey Tananbaum, Harvard-Smithsonian Center for Astrophysics, Cambridge, Massachusetts.

#### Section E—Geology and Geography

**Chair-Elect:** Victor R. Baker, University of Arizona, Tucson; Helen M. McCammon, U.S. Department of Energy.

**Member-at-Large of the Section Committee:** Eldridge M. Moores, University of California, Davis; Allison R. (Pete) Palmer, Geological Society of America, Boulder.

**Members of the Electorate Nominating Committee:** Samuel N. Goward, University of Maryland, College Park; Pembroke J. Hart, Washington, DC; J. Cotter Tharin, Hope College, Holland, Michigan; Robert E. Wall, University of Maine, Orono.

#### Section G—Biological Sciences

**Chair-Elect:** Karen A. Holbrook, University of Washington, Seattle; Frank Talamantes, University of California, Santa Cruz.

**Member-at-Large of the Section Committee:** Sarah C. R. Elgin, Washington University, St. Louis; Geerat J. Vermeij, University of California, Davis.

**Members of the Electorate Nominating Committee:** Lawrence C. Abele, Florida State University, Tallahassee; Margaret E. Daub, North Carolina State University, Raleigh; Virginia Walbot, Stanford University; Karen F. Wishner, University of Rhode Island, Narragansett.

#### Section H—Anthropology

**Chair-Elect:** Paul T. Baker, Kaneohe, Hawaii; Christy G. Turner II, Arizona State University, Tempe.

**Member-at-Large of the Section Committee:** William A. Longacre, University of Arizona, Tucson; R. Bruce McMillan, Illinois State Museum, Springfield.

**Members of the Electorate Nominating Committee:** Billie R. DeWalt, University of Kentucky, Lexington; Bernice A. Kaplan, Wayne State University, Detroit; Timothy A. Kohler, Washington State University, Pullman; David J. Meltzer, Southern Methodist University, Dallas.

#### Section J—Psychology

**Chair-Elect:** Abram Amsel, University of Texas, Austin; William K. Estes, Harvard University.

**Member-at-Large of the Section Committee:** Steven F. Maier, University of Colorado, Boulder; James L. McGaugh, University of California, Irvine.

**Members of the Electorate Nominating Committee:** Elliott M. Blass, Cornell University; Diana Deutsch, University of California, San Diego; James J. Jenkins, University of South Florida, Tampa; Sara J. Shettleworth, University of Toronto.

**Council Delegates:** Byron A. Campbell, Princeton University; Douglas L. Hintzman, University of Oregon, Eugene; David S. Olton, Johns Hopkins University; Larry R. Squire, University of California, San Diego.

#### Section K—Social, Economic, and Political Sciences

**Chair-Elect:** Roger E. Kasperson, Clark University, Worcester, Massachusetts; Albert Rees, Princeton University.

**Member-at-Large of the Section Committee:** Larry L. Bumpass, University of Wisconsin, Madison; Howard Kunreuther, University of Pennsylvania, Philadelphia.

**Members of the Electorate Nominating Committee:** Robert M. Hauser, University of Wisconsin, Madison; Dale W. Jorgenson, Harvard University; Charles F. Manski, University of Wisconsin, Madison; Vernon W. Ruttan, University of Minnesota, St. Paul.

**Council Delegate:** David L. Featherman, Social Science Research Council, New York City; Walter Isard, Cornell University.

#### Section L—History and Philosophy of Science

**Chair-Elect:** Arthur L. Norberg, University of Minnesota, Minneapolis; Michael Ruse, University of Guelph, Ontario.

**Member-at-Large of the Section Committee:** Merritt Roe Smith, Massachusetts Institute of Technology; Matthew N. Wise, University of California, Los Angeles.

**Members of the Electorate Nominating Committee:** Donald deB. Beaver, Williams College, Williamstown, Massachusetts; Camille Limoges, Université du Québec à Montréal; Silvan S. Schweber, Brandeis University, Waltham, Massachusetts; Alan E. Shapiro, University of Minnesota, Minneapolis.

**Council Delegate:** Jane Maienschein, Arizona State University, Tempe; Michael M. Sokal, History of Science Society, Worcester, Massachusetts.

#### *Section M—Engineering*

**Chair-Elect:** Robert H. Page, Texas A&M University, College Station; Donald O. Pederson, University of California, Berkeley.

**Member-at-Large of the Section Committee:** Jose B. Cruz, Jr., University of California, Irvine; Kenneth F. Galloway, University of Arizona, Tucson.

**Members of the Electorate Nominating Committee:** J. D. Achenbach, Northwestern University, Evanston, Illinois; Stanley A. Berger, University of California, Berkeley; Benjamin Gebhart, University of Pennsylvania, Philadelphia; John D. Kemper, University of California, Davis.

**Council Delegates:** Charles W. Bert, University of Oklahoma, Norman; J. Ray Bowen, University of Washington, Seattle; Nancy Anderson Da Silva, University of California, Irvine; A. Richard Seebass, University of Colorado, Boulder.

#### *Section N—Medical Sciences*

**Chair-Elect:** Edward N. Brandt, Jr., University of Oklahoma, Oklahoma City; Gilbert S. Omenn, University of Washington, Seattle.

**Member-at-Large of the Section Committee:** William A. Blattner, National Cancer Institute; Trudy L. Bush, Johns Hopkins University.

**Members of the Electorate Nominating Committee:** John G. Bartlett, Johns Hopkins University; Beverly Bishop, State University of New York, Buffalo; Patricia A. Boffler, University of Texas Health Science Center, Houston; David Schottenfeld, University of Michigan, Ann Arbor.

**Council Delegates:** Bobby R. Alford, Baylor College of Medicine, Houston, Texas; Abram S. Benenson, San Diego State University; C. Gunnar Blomqvist, University of Texas Southwestern Medical Center, Dallas; Edwin Cadman, Yale University; Roddy P. Cox, University of Texas Southwestern Medical Center, Dallas; Louis J. Elsas II, Emory University, Atlanta, Georgia; Robert E. Forster II, University of Pennsylvania, Philadelphia; Leon Gordis, Johns Hopkins University; Alan R. Hinman, Centers for Disease Control, Atlanta, Georgia; Edward L. Kaplan, University of Minnesota, Minneapolis; Donald Massaro, Georgetown University, Washington, D.C.; Howard

E. Morgan, Weis Center for Research, Danville, Pennsylvania; Arno G. Motulsky, University of Washington, Seattle; David P. Rall, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.

#### *Section O—Agriculture*

**Chair-Elect:** Calvin O. Qualset, University of California, Davis; Edward C. A. Runge, Texas A&M University, College Station.

**Member-at-Large of the Section Committee:** Larry E. Schrader, Washington State University, Pullman; David H. Timothy, North Carolina State University, Raleigh.

**Members of the Electorate Nominating Committee:** Billy R. Baumgardt, Purdue University; Margaret E. Smith, Cornell University; Paul E. Read, University of Nebraska, Lincoln; Carroll P. Vance, University of Minnesota, St. Paul.

**Council Delegate:** Mary E. Carter, U.S. Department of Agriculture; Conrad J. (Bud) Weiser, Oregon State University, Corvallis.

#### *Section P—Industrial Science*

**Chair-Elect:** Walter S. Baer, The RAND Corporation, Santa Monica, California; Theodore W. Schlie, Lehigh University, Bethlehem, Pennsylvania.

**Member-at-Large of the Section Committee:** Joel D. Goldhar, Illinois Institute of Technology, Chicago; Lee W. Rivers, Industrial Research Institute, Washington, D.C.

**Members of the Electorate Nominating Committee:** Robert K. Bickerton, Yale University; Brian W. Burrows, USG Corporation, Libertyville, Illinois; Lita M. Elvers, New York City; Eliot Steinberg, Rutgers University.

**Council Delegate:** Daniel Berg, Rensselaer Polytechnic Institute; Paul E. Ritt, Babson College, Wellesley, Massachusetts.

#### *Section Q—Education*

**Chair-Elect:** Alphonse Buccino, University of Georgia, Athens; Madeleine J. Long, Long Island University, Brooklyn.

**Member-at-Large of the Section Committee:** O. Roger Anderson, Columbia University; Mary M. Kohlerman, National Science Foundation.

**Members of the Electorate Nominating Committee:** Abraham Baumel, Stuyvesant High School, New York City; Alice J. Moses, National Science Foundation; Freda Nicholson, Discovery Place, Charlotte, North Carolina; Harold Pratt, Jefferson County Public Schools, Golden, Colorado.

#### *Section R—Dentistry*

**Chair-Elect:** John S. Greenspan, University of California, San Francisco; Marc W. Heft, University of Florida, Gainesville.

**Member-at-Large of the Section Committee:** Lois K. Cohen, National Institute of Dental Research; Martha J. Somer-

man, University of Maryland, Baltimore.

**Members of the Electorate Nominating Committee:** Zeev Davidovitch, Ohio State University, Columbus; Frank G. Oppenheim, Boston University; Peter J. Robinson, Northwestern University, Chicago; John W. Stamm, University of North Carolina, Chapel Hill.

#### *Section S—Pharmaceutical Sciences*

**Chair-Elect:** John L. Neumeyer, Northeastern University, Boston; Valentino J. Stella, University of Kansas, Lawrence.

**Member-at-Large of the Section Committee:** Leslie Z. Benet, University of California, San Francisco; Ronald J. Sawchuk, University of Minnesota, Minneapolis.

**Members of the Electorate Nominating Committee:** Eric J. Lien, University of Southern California, Los Angeles; Edward B. Roche, University of Nebraska, Omaha; Keith S. Rotenberg, Lorex Pharmaceuticals, Skokie, Illinois; Cheryl L. Zimmerman, University of Minnesota, Minneapolis.

#### *Section T—Information, Computing, and Communication*

**Chair-Elect:** Toni Carbo Bearman, University of Pittsburgh; Erwin P. Bettinghaus, Michigan State University, East Lansing.

**Member-at-Large of the Section Committee:** Charles M. Goldstein, National Library of Medicine, Bethesda, Maryland; Peter G. Neumann, SRI International, Menlo Park, California.

**Members of the Electorate Nominating Committee:** Joe Ann Clifton, Litton Guidance and Control Systems, Woodland Hills, California; Joseph G. Coyne, U.S. Department of Energy, Oak Ridge, Tennessee; Melvin S. Day, Washington, D.C.; Jack Minker, University of Maryland, College Park.

#### *Section U—Statistics*

**Chair-Elect:** Joseph B. Kadane, Carnegie Mellon University, Pittsburgh; Donald B. Rubin, Harvard University.

**Member-at-Large of the Section Committee:** Robert E. Bechhofer, Cornell University; Peter J. Bickel, University of California, Berkeley.

**Members of the Electorate Nominating Committee:** Klaus H. Hinkelmann, VPI & SU, Blacksburg, VA; Paul W. Holland, Educational Testing Service, Princeton; Martin A. Tanner, University of Rochester; Katherine K. Wallman, Council of Professional Associations on Federal Statistics, Alexandria, Virginia.

#### *Section W—Atmospheric and Hydrospheric Sciences*

**Chair-Elect:** Dick Barber, Monterey Bay Aquarium Research Institute, Pacific Grove, California; Joost A. Businger, University of Washington, Seattle.

**Member-at-Large of the Section Committee:** Rana A. Fine, University of Mi-

ami; Michael C. MacCracken, Lawrence Livermore National Laboratory.

**Members of the Electorate Nominating Committee:** Neil R. Andersen, National Science Foundation; William H. Beasley, University of Oklahoma, Norman; John C. Gille, National Center for Atmospheric Research, Boulder; Joseph M. Prospero, University of Miami.

#### *Section X—Societal Impacts of Science and Engineering*

**Chair-Elect:** John M. Logsdon, George Washington University; Glenn Paulson, Illinois Institute of Technology, Chicago. **Member-at-Large of the Section Committee:** Jennifer Sue Bond, National Science Foundation; Barbara Mishkin, Hogan & Hartson, Washington, D.C.

**Members of the Electorate Nominating Committee:** Daryl E. Chubin, Office of Technology Assessment; Susan G. Haddan, University of Texas, Austin; Carol L. Rogers, Washington, D.C.; Paul Slovic, Decision Research, Eugene, Oregon.

#### *Section Y—General Interest in Science and Engineering*

**Chair-Elect:** Sidney Borowitz, New York City; Sharon Dunwoody, University of Wisconsin, Madison.

**Member-at-Large of the Section Committee:** Eduardo Feller, National Science Foundation; Sharon M. Friedman, Lehigh University, Bethlehem, Pennsylvania.

**Members of the Electorate Nominating Committee:** Alan Bleier, Oak Ridge National Laboratory; Earle M. Holland, Ohio State University, Columbus; Stanley Shapiro, Skokie, Illinois; Sarah Wilson Wasserman, University of Illinois, Urbana.

## Science and Art

The AAAS Art Program will present the exhibit "Elements of Chaos," new bronze works by Rhonda Roland Shearer, in the first floor atrium gallery from 7 June to 31 August. The exhibition consists of six works: "The Five Platonic Solids" and "The Anthropocentrism Series: My Body Is a Battleground." In these sculptures Shearer explores concepts of chaos theory, fractal geometry, and a renewal of man's link with nature. In "The Five Platonic Solids," plant forms in various stages of growth climb on the open framework of a tetrahedron, cube, octahedron, dodecahedron, and icosahedron. To commemorate Earth Day in April 1990, a public sculpture by Shearer, "Pangea," was installed at 23rd

Street and Broadway in New York City and is currently on display. "Pangea" is a large version of one of the "Five Platonic Solids, Terra." Ms. Shearer has recently exhibited at the Wildenstein Galleries in New York and London. For more information contact Virginia Stern, AAAS, 1333 H Street NW, Washington, DC 20005.

### Arms Control Prize

To recognize outstanding contributions that have advanced our understanding of issues related to arms control and international security and that have a scientific or technical dimension, the AAAS invites applications for the Hilliard Roderick Prize for Excellence in Science, Arms Control, and International Security. An award of \$5,000 and a commemorative medal will be presented at the 1991 AAAS Annual Meeting in Washington, D.C. The prize will acknowledge a significant body of work that relates science and technology to critical issues in public policy. The award will recognize accomplishments such as technology development, scholarly publications, timely analyses, or other professional activities.

A letter describing the nominee's contribution and its importance, two supporting letters, and any supporting materials must be received by 17 September. The awardee will be notified in December 1990. Questions and applications may be addressed to Iris M. Whiting, Hilliard Roderick Prize, American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005, 202/326-6495.

### Scientists, Engineers and Teachers

AAAS is seeking scientists and engineers in the Mid-Atlantic region to join teachers and industry in improving science teaching in the middle grades. The project is funded by a 3-year grant from the Bell Atlantic Charitable Foundation. The

Bell Atlantic-AAAS Institute for Science and Technology Teachers provides a full year of activities beginning with a 2-week graduate course on communications and information technologies.

After the summer course, teachers in the program are paired with a scientist or engineer for work throughout the school year. The scientist or engineer will volunteer about 5 hours a month on activities such as helping teachers review the science curriculum, learn about computers and other technology, or study science and technology topics. The scientist or engineer may also facilitate field trips or demonstrations of equipment, help design classroom materials, teach special topics, or participate in science fairs and career days.

Interested scientists and engineers in the District of Columbia, Delaware, Maryland, New Jersey, Pennsylvania, Virginia, and West Virginia should write or call Gerald Kulm, AAAS, 1333 H Street, NW, Washington DC 20005, 202-326-6647. Matching to teachers will take place during July and August.

### The Liberal Art of Science

The AAAS Project on Liberal Education and the Natural Sciences has just published its report, *The Liberal Art of Science: Agenda for Action*. The book discusses the level of scientific understanding necessary for full participation in 21st-century life and the undergraduate education required to achieve that understanding. The volume argues that science is a liberal art that should be taught as such and outlines the curriculum needed to attain that goal. An appendix describes existing courses and programs throughout the United States that are consistent with the project's recommendations. The book can be ordered from AAAS Books, P.O. Box 735, Waldorf, MD 20604 (121 pp., softcover; AAAS members, \$10.30, others \$12.95, California residents please add sales tax; prepaid orders only).

### AAAS Resolution on Federal Legislation Providing Immunity For Investigations and Reporting of Scientific Fraud and Misconduct

*Whereas* the primary mission of the AAAS is furthering the work of scientists, facilitating cooperation among them, fostering scientific freedom and responsibility, improving the effectiveness of science in the promotion of human welfare, to advance education in science, and increasing the public understanding and appreciation of the importance of the methods of science in human progress; and

*Whereas* incidents of scientific fraud and misconduct destroy the trust among scientists that is essential for collaborative research and for scientific progress and may undermine public confidence in the methods and achievements of science; and

*Whereas* some institutions and individuals have been reluctant to report confirmed incidents of fraud and scientific misconduct, due to fears of lawsuits and of potential legal liability; and

*Whereas* some scientific journals also have been reluctant, for similar reasons, to publish retractions of discredited articles or to print notices of formal findings of fraud and misconduct; and *Whereas* because the law of defama-

tion, intentional interference with the contract rights of others, and similar causes of action differ widely among the states, there is an acknowledged fear of burdensome lawsuits and potential legal liability arising from the truthful reporting of scientific fraud and misconduct; and *Whereas* the problem of fraud and misconduct will not diminish until scientists, administrators, and editors fulfill their responsibility to the larger community by reporting confirmed incidents of scientific fraud and misconduct; **BE IT RESOLVED** that the AAAS encourages federal legislation providing immunity from legal liability for academic institutions, commercial and non-profit research entities, peer review groups, and scientific journals which investigate allegations of scientific misconduct and who report on the outcomes of responsibly conducted investigations, so long as due process is afforded to the accused; and **BE IT FURTHER RESOLVED** that similar immunity should be afforded to persons who in good faith cooperate with or participate in such investigations.

Adopted by the AAAS Board of Directors, April 27, 1990. Sponsored by the AAAS Committee on Scientific Freedom and Responsibility.

### Book on Protein Folding

Lila M. Gierasch and Jonathan A. King have edited *Protein Folding: Deciphering the Second Half of the Genetic Code* (June 1990, 352 pp.). The volume emphasizes interactions between theory and experiment in the process of tailoring proteins and their fragments to test folding hypotheses. The book is targeted for researchers in biotechnology and for those interpreting the growing database of DNA sequences. Major sections include structural themes in native proteins, interactions and conformations of amino acids in peptides, recovering active proteins, intermediates in protein folding, protein folding within the cell, protein design, and modeling protein folding and structure. The book is available from AAAS Books, P.O.

Box 753, Waldorf, MD 20604 (\$31.50 to AAAS members, \$39.50 to others; California residents, please add sales tax).

### Caribbean Division September Meeting

The AAAS Caribbean Division will hold its annual meeting at the Mayaguez Hilton in Puerto Rico in late September. The session will be held jointly with National Science Foundation's EPSCoR (Experimental Program to Stimulate Competitiveness in Research). Persons interested in presenting papers at the meeting or wishing more information about the Division should write Dr. George Hillyer, Pathology Department, School of Medicine 617-A, GPO Box 5067, San Juan PR 00936.