

AAAS Annual Elections

Ballots for the Association's 1980 elections and this announcement should reach AAAS members at about the same time. All members will receive a general-election ballot for president-elect, members of the Board of Directors, and members of the Committee on Nominations. Each member who is enrolled in one of the 21 Electorates corresponding to the AAAS Sections will also receive an electorate-election ballot for Section chairperson-elect, member-at-large of the Section Committee, and members of the Electorate Nominating Committee. The ballots for Electorates Q, R, S, T, U, W, and X will, in addition, list candidates for Council delegate.

The 6 June preliminary election announcement included the names of candidates and offered members the opportunity to place additional names in nomination by petition submitted not later than 16 July. No petitions were received.

Biographies of the candidates are given below, following interviews with the candidates for president-elect. The terms of all new officers, Council delegates, and committee members will begin on 9 January 1981.

A desire to help impart "the excitement and the wonder of science to the public" combined with a belief that we must "look at the problems that society is facing now, and the problems of support for science" persuaded E. Margaret Burbidge, director of the Center for Astrophysics and Space Science at the University of California, San Diego, to be a candidate for AAAS President-Elect.

"Funding for science is a problem which really concerns me. Radical decisions are being made to cut back on science that are going to have their impact 20 years hence. I'm worried. We're already seeing a drop in U.S. leadership in advanced technology. Now the argument that's made is to look at where all the Nobel Prizes go, but the Nobel Prizes are for work that was done 10, 15, or 20 years ago. What is going to be the situation 10 or 20 years from now? Advanced technology is something that this country has been a leader in, and should be a leader in, and can continue—but it takes support of the basic sciences to do that.

"We really have to get the word out to the policy-makers." Burbidge believes the AAAS Congressional Science and Engineering Fellows Program is an important element in this process. "You want people who are science-oriented to go as congressional fellows and staffers for Congresspersons. A two-way flow is desirable, because so much information about how Congress works can be brought back to the scientists, but it's even more important to have the flow going in the opposite direction."

A member of the Committee on Science and Public Policy of the National Academy of Sciences, Burbidge says that the future of science, and priority setting, are concerns of that committee, too. An international approach, she suggests, may be one way to take a broad look at the situation and see where there are gaps.

"It's a difficult enough thing to do in one's own field, to set priorities in the things you want to spend limited money on. We're starting to look at ways in which other countries do this, and to gather information from Western Europe and Japan, and a bit from Israel. I think we might go more in this direction."

In addition to policy-makers, Burbidge sees young people as a particularly important audience for the Association. "Sci-



ence has always been, to me, such an exciting subject, and I think that the reason there's a certain amount of suspicion on the part of the general public regarding science goes back to education. That's one reason I was so elated to see the attendance of that large number of high school students at the San Francisco Meeting. We should do more—that's advancement of science at a level where it really counts." The AAAS should encourage interaction between scientists and young people, she says, by getting out the word that "it really helps to go and talk to junior high schools. You must always have the best speakers to do that, to tell the story in a way that draws people's attention. When you get to the high school level, the students who will listen will be those who have already been motivated. So the younger the people you're speaking to, the better the speaker has to be."

"I do worry about the freezing out of women and minorities in mathematics. It's done by bad teaching. You have a few people who are born good at mathematics. They're going to survive, no matter how bad the teacher is. But most of us have so much more potential than is ever called upon, and it gets buried and dies from lack of encouragement. I think there are very few children who really cannot learn basic mathematical skills if they're only taught." Teacher workshops, perhaps in connection with the AAAS Chautauqua Short Course Program, observes Burbidge, might be a way for the Association to help remedy the situation.

The AAAS Annual Meeting, she believes, is a good mechanism for increasing cross-disciplinary exchanges among the sciences. "By having the best speakers you draw people in from other disciplines, and they listen and they learn. But the meeting is also a sounding board where we can talk about things like nuclear arms control, international relations, or freedom and responsibility in science. I don't know where else you can do it except at a meeting like ours."

As president of the American Astronomical Society, the 61-year old Burbidge faced the same controversy regarding meeting in states that have not ratified the Equal Rights Amendment that the AAAS Board of Directors voted on in 1978. The decision of both societies was not to meet in those states. Some of the reaction, also, was similar. "Some people said our business was to do astronomy and not to get into political issues. However, our view was that anything that harms a portion of the astronomical community is our business. Women are discriminated against. We have to do what we can to remedy this. So I support the AAAS stand as well."

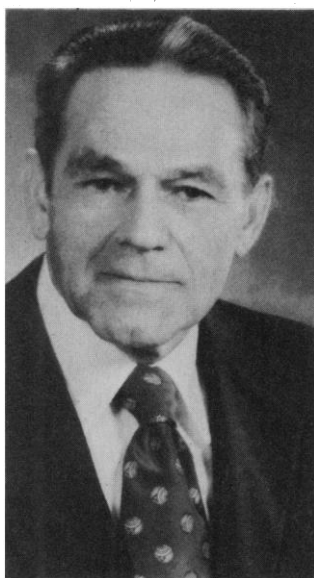
Issues involving the suppression of human rights, affirms Burbidge, should be addressed forthrightly by the Association. The stand taken by the British Royal Society, she suggests, would be a proper one for the AAAS to emulate. "The

Royal Society has declared that it will not limit the flow of science. It will do everything it can to encourage a free flow of information and the free communication between scientists of different countries. When it comes to holding symposia and inviting participants from, say the Soviet Union, the best people in any particular field are the ones invited. If the British are told that those people are not allowed to go out of the country, they will not accept a substitute. One must be ready to cancel participation of the country altogether, rather than to accept substitutes."

A different international aspect of the activities of the AAAS, the exchanges with the People's Republic of China, she asserts, is very worthwhile. "It is such a huge country with a huge population, and they are so far behind in science and technology. I went to China 2½ years ago with a group of astronomers. It was before the opening of diplomatic rela-

"Interpreting society to the science community," says AAAS President-Elect candidate Norman Hackerman, "is of equal importance to interpreting science to society. That often isn't said. It's taken for granted that the scientists and the scientific community understand the setting from which they come, but I find that's not true."

Hackerman, the 68-year old president of Rice University and outgoing chairman of the National Science Board, believes that scientists should be more aware of where their funding comes from and more sensitive to political realities.



"I think that one of the important things that AAAS could do is to inculcate in its members, and in the whole community for that matter, a real understanding of the fact that we are a part of the political process and that we ought to understand the process, and be involved in it. And I would hope that every young scientist coming along would get a taste of it.

"There isn't as much arrogance as there once was, but there's certainly a lack of understanding. Those of us in the field should not take the societal recognition of science without at the same time understanding why the recognition is there. I think science is supported by the general tax fund because of the belief that science has an ultimate use for society. That being the case, 'politics' is not a dirty word.

"What I'm saying is that I really ought to know where the money to support my research comes from. And I must say, I don't believe people do. I doubt that there are many young or old scientists who get into a taxi cab and say to the guy who's driving, 'Hey, you know that I'm using your money to study laser effects on chemical reactions? or the psychology of the rat? or whatever?' I'd like to set up a reverse process to the one that Senator Proxmire has. I think if recipients really were aware of where their money came from, it would be good for them and good for society. And anything the AAAS could do in that direction would be of value, even if it did nothing else."

Hackerman sees as another important, though not primary, role of the Association, that of disseminating information about science. *Science*, he believes, is very important for the

tions, and I like to think that the groups that were going over about that time did help in the breakthrough in the long hiatus in the communications with China, and the setting of what the Chinese called 'normalization,' i.e., diplomatic recognition."

The dissemination of not only scientific knowledge but also the excitement of science, proposes Burbidge, is the key role of the Association. "I think the new journal, *Science 80*, is great. The public really likes this kind of journal. To help reach an even larger audience we should supply resources to television and radio producers. We should make ourselves known as a resource which the media can draw on for information and choice of subject. We could feed them the interesting things that are happening around the world. This communication, not only with scientists, but also with lay people who are only marginally interested in science and to those who have the business of running the country, is vital."

scientific community. But he is somewhat critical of the way in which science is presented to the general public. "We use the 'gee whiz' approach, and that ultimately, is not the basis. The fact is that the standard, pedestrian expansion of our understanding of nature is what's critical. The isolated incidents are noticeable, and attributable to individuals, but the steady expansion is what is important."

The AAAS Annual Meeting, notes Hackerman, is the type of forum it should be. "It still has some scientific content, but that's obviously not its principal purpose. It serves as a lightning rod, a place where the controversial issues, the concepts about science and society, can be explored." A chemist, he would like to see the American Chemical Society and other disciplinary societies stick more to science and less to science policy. But the AAAS, he insists, should continue in that endeavor.

Hackerman urges more active involvement in issues of scientific controversy. "I think the AAAS has a tremendously important role to play if it develops ways in which to deal with issues, with people in the community, and with the Association retaining an objective stance. The AAAS has the capacity to pull together a lot of good people, and it is clearly able to determine degrees of objectivity, it knows where positions have been taken . . . and it ought to try to arrange, to the extent that it can, the most objective discussions of important issues involving science and technology; I think that's a vital part of its purpose."

Maintaining objectivity is also important, asserts Hackerman, when AAAS committees and working groups are put together. The recently formed AAAS nuclear arms control group is a case in point. The group has as its charge " . . . to help organize and mobilize resources toward nuclear arms control." While Hackerman says the topic is a good one for AAAS to become involved in, " . . . the approach is probably wrong. The conclusion has already been drawn."

Although he disagreed with the decision reached by the AAAS Board of Directors in 1978 (to not have the Association meet in states which had not ratified the Equal Rights Amendment), Hackerman served as co-chairman of the 1979 Annual Meeting in Houston, Texas. "I don't think they did the right thing," he states, "but I think it was perfectly legitimate to take a stand. We don't live isolated. The AAAS is one of the societies involving scientists that ought to be ready, willing, and able to take positions, or at least to air the issues."

One move he would urge on the AAAS would be to look more closely at the "sunset rules." (Sunset rules require com-

mittees and other organizational activities to cease to exist unless they can prove there is a need for their continuation.) "I believe very strongly that groups are put together and they just don't know how to let go. Organized bodies simply have a tendency to hang on forever, and there ought to be a procedure for looking at them periodically and deciding whether it is necessary to continue." Such scrutiny, he suggests, might well be given the AAAS exchange program with the People's Republic of China. "It seems to me now there's more of that going on than is necessary. We have diplomatic relations, and there is a process; there isn't really any more need to go over and see how things are going. Specific, targeted groups make more sense, but this business of sending committees over to look over the lay of the land has been done. Enough's enough."

Hackerman believes the programs of the Office of Opportunities in Science are very important, but he does not look at their activities as human rights. "The rights problem is important, a person would be irresponsible not to think so, but I prefer to approach it in the case of AAAS from the resource point of view. The world needs every able head it can get and

it doesn't matter whose; therefore, whatever can be done to improve our resource matter in this area should be done. I think it's a vital, valuable office."

Science education, he postulates, may be too amorphous for the AAAS to really have much impact. "It is much more dispersed than science itself. It involves people and activities that are outside the scientific community and they have valid claims on the decision process and therefore it's pretty complex. Now, it may be that for just that reason the AAAS is a better place for the general public to get involved with science education than, for example, the American Chemical Society (which would have a chemical bias). But by and large, I'm not immediately impressed by the usefulness."

Hackerman counts as the Association's most important activities those which transmit ideas—*Science*, the R & D colloquium, and the meetings. "That exchange is important, back and forth. Unfortunately, that hasn't been done. We get the science side, we don't get the other side. Back and forth and in between. That shouldn't be dispensable. I don't like the word 'communication' because it's over-used, but that's what we ought to do."

General Election

Terms of office are as follows: president-elect, 3 years (the second year as president, the third year as retiring president and chairman of the Board); members of the Board of Directors, 4 years; members of the Committee on Nominations, 2 years.

President-Elect (one to be elected).

E. Margaret Burbidge
Norman Hackerman

E. Margaret Burbidge

E. Margaret Burbidge (astronomy), 1919; Ph.D., University of London, 1943. With University of California, San Diego, since 1962; professor of physics since 1964; director, Center for Astrophysics and Space Science, since 1979. Previously with University of London Observatory, University of Chicago (Yerkes Observatory and Fermi Institute), and Royal Greenwich Observatory (director). Fellow, American Academy of Arts and Sciences; Warner Prize, American Astronomical Society, 1959; president, AAS, 1976-78; Sigma Xi and Phi Beta Kappa lecturer. Committee on Science and Public Policy and Astronomy Survey Committee, NAS; JILA Evaluation Panel. AAAS activities: Committee on Nominations, 1974-75.

Norman Hackerman

Norman Hackerman (chemistry), 1912; A.B., 1932, and Ph.D., 1935, Johns Hopkins University. President and professor of chemistry, Rice University, since 1970. Previously with Loyola College, Colloid Corporation, U.S. Coast Guard, Virginia Polytechnic Institute, Kellogg Corporation, and University of Texas at Austin. Member, National Academy of Sciences; fellow, American Academy of Arts and Sciences; Whitney Award, National Association of Corrosion Engineers, 1956; Jo-

seph L. Mattiello Award, 1964; Palladium Medal, Electrochemical Society, 1965; Southwest Regional Award, American Chemical Society, 1965; Honor Scroll, Texas Institute of Chemists, 1975; Gold Medal, American Institute of Chemists, 1978; president, Electrochemical Society, 1957-58; chairman, Board on Energy Studies, NAS-NRC, 1974-77. Editor, *Journal of the Electrochemical Society*; chairman, A. B. Campbell Young Authors Award Committee, NACE; chairman, National Science Board; Advisory Editorial Board, *Corrosion Science*; Board of Directors, Oak Ridge Associated Universities; president, Independent Colleges and Universities of Texas; Scientific and Educational Advisory Committee, Lawrence Berkeley Laboratory; Defense Science Board. AAAS activities: chairman, Committee on AAAS Meetings, 1974, and Section on Chemistry, 1977; Council, 1978.

Board of Directors (two to be elected).

Fay Ajzenberg-Selove
Herbert I. Fushfeld
David A. Hamburg
Walter E. Massey

Fay Ajzenberg-Selove

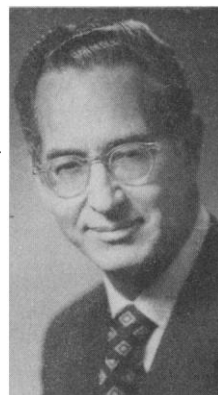
Fay Ajzenberg-Selove (physics), 1926; B.S., University of Michigan, 1946; M.S., 1949, and Ph.D., 1952, University of Wisconsin. With University of Pennsylvania since 1970; professor of physics since 1973. Previously with Smith College, Massachusetts Institute of Technology, Boston University, and Haverford College. Smith-Mundt fellow, 1955; Guggenheim fellow, 1965-66; national lecturer, Sigma Xi-RESA, 1973-74; numerous appointments, American Physical Society, American Institute of Physics, NAS-NRC, and U.S. Government, including chairman, Division of Nucle-



ar Physics, APS, 1973-74, and Numerical Data Advisory Board, Assembly of Mathematical and Physical Sciences, NAS-NRC, 1977-79; Commission on Symbols, Units and Nomenclature, International Union of Pure and Applied Physics, 1977-78. DOE/NSF Nuclear Science Advisory Committee; Commission on Standards, Units, Nomenclature, Atomic Masses and Fundamental Constants and chairman, Commission on Nuclear Physics, IUPAP; U.S. National Committee for IUPAP; Board, University of Pennsylvania Chapter, American Association of University Professors. AAAS activities: Council, 1974-79; Committee on Council Affairs, 1977-78.

Herbert I. Fushfeld

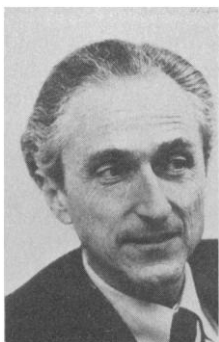
Herbert I. Fushfeld (research management, science policy), 1921; B.A., Brooklyn College, 1941; M.A., 1945, and Ph.D., 1950, University of Pennsylvania. Director, Center for Science and Technology Policy, Graduate School of Public Administration, New York University, since 1978. Previously with Frankford Arsenal, American Machine and Foundry Company, and Kennecott Copper Corporation (director of research). Governing Board, American Institute of Physics, 1967-70; president, Industrial Research Institute, 1973-74, chairman, International Subcommittee for Federal Science and Technology Committee; vice president, Research and Development Advisory Council, American Management Association, 1973-75. Expert consultant and member, Advisory Committee on International Investment, Technology and Development, U.S. State Department; Advisory Committee on Technology and Economic Growth, Organization for Economic Cooperation and Development.



opment; Board of Directors, Hazeltine Corporation; NSF Advisory Council. AAAS activities: Section Committee, Section on Industrial Science (P), 1974-79; chairman, Section P, 1979; Council, 1976-78 and 1980.

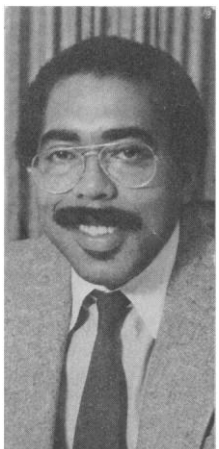
David A. Hamburg

David A. Hamburg (health science policy), 1925; A.B., 1944, and M.D., 1947, Indiana University. President, Institute of Medicine, National Academy of Sciences, since 1975; director, Division of Health Policy Research and Education, Harvard University, effective November 1980. Previously with Brooke Army Hospital, Walter Reed Army Institute of Research, Michael Reese Hospital, University of Illinois College of Medicine, National Institute of Mental Health, Stanford University School of Medicine, and California Institute of Technology. Fellow, Center for Advanced Study in the Behavioral Sciences, 1957-58 and 1967-68; President's Medal for Advancement of Biomedical Research, Michael Reese Medical Center, 1974; research prize, International Society for Research on Aggression, 1974; Phi Beta Kappa national lecturer, 1975-76; Menninger Award, American College of Physicians, 1976; Bicentennial Medal, Massachusetts Institute of Technology, 1976; Vestermark Award, American Psychiatric Association, 1977; Rosenhaus Award, American Public Health Association, 1978; president, Association for Research in Nervous and Mental Disease, 1967-68, Society for the Study of Human Evolution, 1972-73, ISRA, 1976-78, and Academy of Behavioral Medicine Research, 1979. Editorial Boards, *Psychosomatic Medicine*, *Behavioral Science*, *Aggressive Behavior*, and other journals; associate editor, *Journal of Psychiatric Research*; Board of Governors, Tel-Aviv University; Advisory Committee on Medical Research, World Health Organization; vice chairman, Ethics Advisory Board, DHEW; Arteriosclerosis Board, National Institute of Heart, Lung and Blood Diseases; Board of Trustees, Rockefeller University. AAAS activities: AAAS-ABA National Conference of Lawyers and Scientists, 1977-.



Walter E. Massey

Walter E. Massey (physics), 1938; B.S., Morehouse College, 1958; M.S. and Ph.D., Washington University, 1966. Director, Argonne National Laboratory, and professor of physics, University of Chicago, since 1979. Previously with Morehouse College, Washington University, University of Illinois, and Brown University. National Defense Act fellow, 1959; Outstanding



Educator of America Award, 1974; Distinguished Service Citation, American Association of Physics Teachers, 1975; Advisory Panel for Physics, Division of Physics, NSF, 1975-77. National Science Board; Advisory Board, Fund for the Improvement of Post-secondary Education, DHEW; Advisory Committee on Energy Research, Association of American Universities.

Committee on Nominations (four to be elected).

John D. Baldeschwieler
Elise Boulding
Theodore Cooper
William D. McElroy
Digby Johns McLaren
Betty H. Pickett
Gerard Piel
Marcel Roche

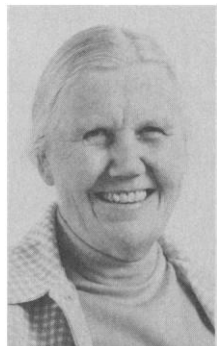
John D. Baldeschwieler

John D. Baldeschwieler (chemistry), 1933; B.Chem.E., Cornell University, 1956; Ph.D., University of California, Berkeley, 1959. Professor of chemistry, California Institute of Technology, since 1973. Previously with Harvard University, Stanford University, Office of Science and Technology, Executive Office of the President (deputy director), and National Cancer Institute. Member, National Academy of Sciences; Sloan Foundation fellow, 1962-65; Award in Pure Chemistry, American Chemical Society, 1967; Fresenius Award, Phi Lambda Upsilon, 1968. Committee on Scholarly Communication with People's Republic of China, Ad Hoc Panel on Student Exchange, and Ad Hoc Committee on Federal Science Policy, NAS; Editorial Advisory Board, *Chemical Physics Letters*; Research Advisory Council, Ford Motor Company; Scientific and Technical Advisory Panel to Director of CIA.



Elise Boulding

Elise Boulding (sociology), 1920; B.A., Douglass College, 1940; M.S., Iowa State University, 1949; Ph.D., University of Michigan, 1969. Professor and chairperson, Sociology Department, Dartmouth College, since 1979. Previously with University of Michigan and University of Colorado. Chair, Status of Women Committee, 1970-72; chairperson, organizing secretary, Consortium for Peace Research, Education and Development, 1970-74; chair, Common World Conflict, 1972-74; co-chair, Research Committee on Sex Roles, International Sociological Association, 1973-77; Council, International



Peace Research Association, 1975-78; Council, American Sociological Association, 1976-79. U.S. National Commission for UNESCO; presidential appointee to Peace Academy Commission; Program Advisory Council, Human and Social Development Program, United Nations University. AAAS activities: Commission on Science Education, 1971-72; co-convenor, Social Impact Panel, AAAS Project on Environmental and Societal Consequences of a CO₂-Induced Climate Change, 1979-.

Theodore Cooper

Theodore Cooper (medicine), 1928; B.S., Georgetown University, 1949; M.D., 1954, and Ph.D., 1956, St. Louis University. Dean, Medical College, and provost for medical affairs, Cornell University, since 1977. Previously with St. Louis University, National Heart and Lung Institute (director), and DHEW (assistant secretary for health). Gold Heart Award, American Heart Association, 1973; Skylab Achievement Award, NASA, 1974; Harvey W. Wiley Medal, Food and Drug Administration, 1976; Schwartz Award in Medicine, Tom A. Spies Memorial Award, Federal Medical Services Certificate of Appreciation, and Citation for Meritorious Service, 1977; Albert Lasker Special Public Service Award, 1978. Senior editor, *Chest*; editor, *Dialogues in Hypertension*; Editorial Boards, *Journal of Cardiovascular Pharmacology* and *Encyclopedia of Bioethics*; Advisory Boards, *Modern Medicine*, *Journal of Preventive Medicine*, and Goodwill Industries; trustee, Milton Halpern Library of Legal Medicine and Winifred Masterson Burke Relief Foundation; Membership Committee, Institute of Medicine, NAS; visiting fellow, Woodrow Wilson National Fellowship Foundation; chairman, Board of Scientific Consultants, American Health Foundation; Council on Scientific Affairs, American Medical Association; Board of Overseers, Memorial Sloan Kettering Cancer Center; director, Upjohn Company, Metropolitan Life Insurance Company, and Hazleton Laboratories Corporation. AAAS activities: chairperson, Section on Medical Sciences, 1979; Council, 1980.



William D. McElroy

William D. McElroy (biochemistry), 1917; B.A., Stanford University, 1939; M.A., Reed College, 1941; Ph.D., Princeton University, 1943. With University of California, San Diego, since 1972; professor of biology beginning in 1980. Previously with Johns Hopkins University, Marine Biological Laboratory, Woods Hole, and National Science



Foundation (director). National Research Council fellow, 1945-46; member, National Academy of Sciences; Barnett Cohen Award, American Society of Bacteriologists, 1958; Rumford Prize, American Academy of Arts and Sciences, 1964; Andrew White Medal, Loyola College, 1971; Man of Achievement in Science Award/Achievements Rewards for College Scientists, Inc., 1973; President's Meritorious Award, American Institute of Biological Sciences, 1973; Contribution to Science Award, Naval Electronic Laboratory Center, 1974; executive editor, *Archives of Biochemistry and Biophysics*, 1958-65; president, Society of General Physiologists, 1960-61, American Society of Biological Chemists, 1963-64, and American Institute of Biological Sciences, 1968. Senior Executive Council, The Conference Board; Board of Trustees, Nutrition Foundation; President's Committee on the National Medal of Science Award; Panel of Reviewers and Ocean Affairs Board, NAS; Corporation of the Woods Hole Oceanographic Institution; Advisory Council, Electric Power Research Institute; San Diego County Executives Council; co-editor, *Analytical Biochemistry*; Board of Directors, San Diego Gas and Electric Company. AAAS activities: chairman, Committee on Council Affairs, 1975; Board of Directors and Council, 1975-78; president, 1976; Committee on Nominations, 1976; Executive Committee, 1976-78.

Digby Johns McLaren

Digby Johns McLaren (geology), 1919; B.A., 1941, and M.A., 1947, Cambridge University; Ph.D., University of Michigan, 1951. With Geological Survey of Canada since 1948; director general since 1973. Fellow, Royal Society of Canada and Royal Society of London; foreign associate, NAS; chairman, Silurian-Devonian Boundary Committee, 1967-74, and Commission on Stratigraphy, 1972-76, International Union of Geological Sciences; president, Paleontological Society, 1969, and Canadian Society of Petroleum Geologists, 1971; Council, Geological Society of America, 1975-78. President, Board, International Geological Correlation Programme, UNESCO-IUGS.

Betty H. Pickett

Betty H. Pickett (psychology), 1926; A.B., 1945, Sc.M., 1947, and Ph.D., 1949, Brown University. With National Institutes of Health since 1958; deputy director, National Institute of Child Health and Human Development, since 1979. Previously with University of Minnesota, Duluth Branch, University of Nebraska, University of Connecticut, and Smithsonian Institution. Superior Service Award, 1972, and Distinguished Service Award, 1975, DHEW; cita-



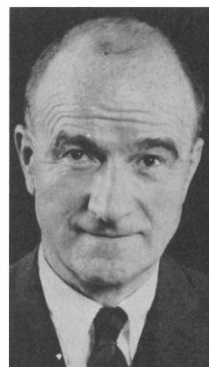
tion for scientific and professional achievement, Brown University Graduate School, 1978; Harold M. Hildreth Award, 1979; Health Scientist Administrator Panel, Civil Service Commission Board of Examiners, 1970-76; co-chairperson, Psychology Study Group, NIMH Research Task Force, 1972-74; Director's Research Advisory Group, NIMH, 1974-77; chairperson, Task Force to Study the Research Program of St. Elizabeths Hospital, 1975; NIAAA Task Force on Grants and Contracts to National Organizations, 1976; NIH Extramural Associates Program, 1978. Grants Associate Board, Division of Research Grants, NIH.

Gerard Piel

Gerard Piel (publishing), 1915; A.B., Harvard College, 1937. Publisher of *Scientific American* since 1947. Previously with *Life* magazine (science editor) and Henry J. Kaiser Company. Kalinga Prize, 1962; George Polk Award, 1964; Bradford Washburn Award, 1966; Arches of Science Award, 1969; Rosenberger Medal, University of Chicago, 1973. Trustee, Phillips Academy, American Museum of Natural History, New York Botanical Garden, New York University, Mayo Foundation, Henry J. Kaiser Family Foundation, Radcliffe College; chairman, Board of Trustees, Foundation for Child Development. AAAS activities; Committee of Judges, Westinghouse Science Writing Awards, 1961; Committee on AAAS Meetings, 1962-63; chairman, Committee on Public Understanding of Science, 1970-73.

Marcel Roche

Marcel Roche (biomedicine), 1920; B.S., St. Joseph's College, 1942; M.D., Johns Hopkins University, 1946; M.D., Universidad Central de Venezuela, 1953; M.A., Cambridge University, 1970. Senior investigator, Instituto Venezolano de Investigaciones Científicas, since 1959, and head, Department of Science Studies, since 1974; editor, *Interciencia*, since 1976. Previously with Johns Hopkins Hospital, Peter Bent Brigham Hospital, Harvard Medical School, New York Public Health Research Institute, Instituto de Investigaciones Médicas, Caracas (director), Consejo Nacional de Investigaciones Científicas y Tecnológicas (president), and Cambridge University. Member, Pontifical Academy of Science; National Research Prize, Venezuela, 1955; Jose Gregorio Hernandez Prize, 1967; Order de la Couronne, Belgium, 1959; Order del Libertador, 1962, Andrés Bello, 1960, and Francisco de Miranda, 1978, Venezuela; Order of Merit, German Federal Republic, 1979; secre-



tary general, Venezuelan Association for the Advancement of Science, 1957-58; president, Council of Higher Education in the American Republics, 1964-66; president, United Nations University, 1978. Vice president, United Nations Advisory Committee on Science and Technology for Development; Council, United Nations University; Council, Pughwash; Editorial Council, *Bulletin of Atomic Scientists* and *Acta Científica Venezolana*.

Electorate Elections

Terms of office are as follows: Council delegates, 3 years; Section chairpersons-elect, 3 years (the second year as chairpersons, the third year as retiring chairpersons); members-at-large of the Section Committees, 4 years; members of the Electorate Nominating Committees, 3 years.

Section A—Mathematics

Chairperson-Elect (one to be elected).

Felix E. Browder
Hans F. Weinberger

Felix E. Browder (mathematics), 1927; B.S., Massachusetts Institute of Technology, 1946; Ph.D., Princeton University, 1948. With University of Chicago since 1963; Louis Block professor of mathematics since 1971. Previously with MIT, Boston University, Brandeis University, and Yale University. Guggenheim fellow, 1953-54 and 1966-67; NSF senior postdoctoral fellow, 1959-60; Sloan Foundation fellow, 1959-63; member, National Academy of Sciences; fellow, American Academy of Arts and Sciences; editor, *Bulletin of the American Mathematical Society*, 1961-67 and 1978-80. Committee on National Policy on Science and Technical Education and Committee on Research Excellence to the year 2000, NRC; Executive Committee of the Council, AMS; 1981 Nominating Committee, NAS. AAAS activities: Section Committee, Section on Mathematics, 1980-.

Hans F. Weinberger (applied mathematics), 1928; B.S. and M.S., 1948, and Sc.D., 1950, Carnegie Institute of Technology. Professor of mathematics, University of Minnesota, since 1960. Previously with University of Maryland. Editor, *Bulletin of the American Mathematical Society*, and member, AMS Council, 1972-77; Council, Society for Industrial and Applied Mathematics, 1976-79. U.S. National Committee for Mathematics; Committee on Science Policy, AMS; Arrangements Committee, Society for Natural Philosophy; Committee on Applied Mathematics, NRC; associate editor, *Archive for Rational Mechanics and Analysis*, *Applicable Analysis*.

Member-at-Large of the Section Committee (one to be elected).

William H. Pell
Paul J. Sally, Jr.

William H. Pell (mathematical sciences), 1914; B.S., 1936, and M.S., 1938, University of Kentucky; Ph.D., University of Wisconsin, 1943. With National Science Foundation since 1965; program director, Special Projects, Mathematical Sciences Section, since

1979. Previously with Bell Aircraft Corporation, Brown University, University of Kentucky, and National Bureau of Standards. Postdoctoral fellow, Brown University, 1942-43, and University of Maryland, 1955-56; associate editor, *Journal of Research of National Bureau of Standards*, 1961-65, and *Journal of the Society for Industrial and Applied Mathematics*, 1961-66. Selection Committee, Society for Natural Philosophy.

Paul J. Sally, Jr. (mathematics), 1933; B.S., 1954, and M.A., 1956, Boston College; Ph.D., Brandeis University, 1965. With University of Chicago since 1965; professor since 1972; chairman, Department of Mathematics, since 1977. Previously with Boston College and Washington University; temporary member, Institute for Advanced Study, 1967-68 and 1971-72.

Members of the Electorate Nominating Committee (two to be elected).

Hyman Bass
Donald L. Burkholder
Mary P. Dolciani
Robert R. Phelps

Hyman Bass (mathematics), 1932; B.A., Princeton University, 1955; M.S., 1956, and Ph.D., 1959, University of Chicago. With Columbia University since 1959; professor of mathematics since 1965. Visiting positions, Institute for Advanced Study, 1964-66, Universidad Autónoma de México, 1965, Tata Institute of Fundamental Research (Bombay), 1965-66, 1969, and 1976, Université de Paris, 1968 and 1973, Institut des Hautes Etudes Scientifiques, 1968-69, Cambridge University, 1973, and Instituto de Matemática Pura e Aplicada, 1977. Sloan fellow, 1964-66; Guggenheim fellow, 1968-69; Van Amringe Book Award, 1969; Cole Prize in Algebra, American Mathematical Society, 1975; Council, AMS, 1969-74. Editorial Boards, *American Journal of Mathematics*, *Annals of Mathematics*, *Journal of Pure and Applied Algebra*, and *Communications in Algebra*; vice president, AMS.

Donald L. Burkholder (mathematics), 1927; B.A., Earlham College, 1950; M.S., University of Wisconsin, 1953; Ph.D., University of North Carolina, 1955. With University of Illinois since 1955; professor of mathematics since 1964; professor, Center for Advanced Study, since 1978. Social Science Research Council fellow, 1953-54; president, Institute of Mathematical Statistics, 1975-76.

Mary P. Dolciani, formerly with Hunter College; presently residing in Connecticut. (Biographical information was not supplied by the candidate.)

Robert R. Phelps (mathematics), 1926; B.A., University of California, Los Angeles, 1954; Ph.D., University of Washington, 1958. With University of Washington since 1962; professor since 1966; chairman, Department of Mathematics. Previously with Institute for Advanced Study and University of California, Berkeley; professeur associé, Université de Paris VI, 1969-70; senior research fellow, University College (London), 1977-78. Editorial Board, *Pacific Journal of Mathematics*, 1968-71. Council and editor, *Proceedings of the American Mathematical Society*, AMS.

Section B-Physics

Chairperson-Elect (one to be elected).

Henry H. Barschall
Donald N. Langenberg

Henry H. Barschall (physics), 1915; A.M., 1939, and Ph.D., 1940, Princeton University. With University of Wisconsin since 1946; John Bascom professor since 1973. Previously with Princeton University, University of Kansas, and Los Alamos Scientific Laboratory; visiting professor, University of California, Davis, 1971-73. Member, National Academy of Sciences; Bonner Prize, American Physical Society, 1965; chairman, Division of Nuclear Physics, APS, 1968-69; associate editor, *Nuclear Physics*, 1959-72. Chairman, Physics Section, NAS; Assembly of Mathematical and Physical Sciences, NRC; U.S. National Committee for International Union of Pure and Applied Physics; Publishing Policy Committee and chairman, Publications Board, American Institute of Physics; editor, *Physical Review C*; Editorial Board, *Journal of Physical and Chemical Reference Data*.

Donald N. Langenberg (physics), 1932; B.S., Iowa State University, 1953; M.S., University of California, Los Angeles, 1955; Ph.D., University of California, Berkeley, 1959. With University of Pennsylvania since 1960; currently professor of physics. Previously with Hughes R & D Laboratories and University of California, Berkeley; professeur associé, Ecole Normale Supérieure, 1966-67; visiting professor, California Institute of Technology, 1971; gastforscher, Zentralinstitut für Tieftemperaturforschung der Bayerischen Akademie der Wissenschaften, and Technische Universität, München, 1974. NSF fellow, 1956-60; Sloan fellow, 1962-64; Guggenheim fellow, 1966-67; John Price Wetherill Medal, Franklin Institute, 1975; Executive Committee, Division of Condensed Matter Physics, American Physical Society, 1976-80, chairman, 1978-79. Chairman, NSF Advisory Council; National Commission on Research; Council on Governmental Relations; Board of Trustees, Associated Universities, Inc.

Member-at-Large of the Section Committee (one to be elected).

Arnold B. Arons
Lincoln Wolfenstein

Arnold B. Arons (physics), 1916; M.E., 1937, and M.S., 1940, Stevens Institute of Technology; Ph.D., Harvard University, 1943. Professor of physics, University of Washington, since 1968. Previously with Woods Hole Oceanographic Institution, Stevens Institute of Technology, and Amherst College. Guggenheim fellow, 1957-58; NSF fellow, 1962-63; Honor Medal, Stevens Institute of Technology, 1968; Oersted Medal, American Association of Physics Teachers, 1972; Commission on College Physics, 1963-68; Governing Board, 1966-72, and president, 1967, AAPT. Trustee, WHOI; Ad Hoc Committee on Public Understanding of Physics, American Physical Society.

Lincoln Wolfenstein (physics), 1923; S.B., 1940, S.M., 1943, and Ph.D., 1949, University of Chicago. With Carnegie-Mellon University since 1948; University professor since 1978. Previously with National Advisory Committee for Aeronautics. Guggenheim fellow, 1973; national secretary, Federation of American Scientists, 1966-69; chairman, Division of Particles and Fields, American Physical Society, 1973.

Members of the Electorate Nominating Committee (two to be elected).

Glennys R. Farrar
Judy R. Franz
Alan M. Portis
Joel R. Primack

Glennys R. Farrar (theoretical particle physics), 1946; B.A., University of California, Berkeley, 1967; Ph.D., Princeton University, 1970. Associate professor of physics, Rutgers University, since 1979. Previously with Princeton University, Institute for Advanced Study, and California Institute of Technology. Sloan fellow, 1974-79; Executive Committee, Division of Particles and Fields, American Physical Society, 1973-75.

Judy R. Franz (solid state physics), 1938; B.A., Cornell University, 1959; M.S., 1961, and Ph.D., 1965, University of Illinois. With Indiana University since 1968; professor of physics since 1979; associate dean, College of Arts and Sciences, beginning in 1980. Previously with IBM Research Laboratory (Zurich). Humboldt research fellow, 1978-79; Indiana University Amoco Distinguished Teaching Award, 1978; Danforth Foundation associate. Committee on the Status of Women in Physics and Selection Committee for Corporate Sponsored Scholarships for Minority Undergraduate Students in Physics, American Physical Society.

Alan M. Portis (solid state physics), 1926; Ph.B., University of Chicago, 1948; A.B., 1949, and Ph.D., 1953, University of California, Berkeley. With University of California, Berkeley, since 1956; professor of physics since 1964; director, Lawrence Hall of Science, 1969-72. Previously with University of Pittsburgh. Fulbright fellow, 1961-62 and 1967; Guggenheim fellow, 1965; Robert A. Millikan Medal, American Association of Physics Teachers, 1966. Committee on Education, American Physical Society.

Joel R. Primack (physics), 1945; A.B., Princeton University, 1966; Ph.D., Stanford University, 1970. With University of California, Santa Cruz, since 1973; associate professor of physics since 1977. Previously with Stanford Linear Accelerator Center and Harvard University. Sloan fellow, 1974-78; American Physical Society Forum on Physics and Society Award, 1977 (with Frank von Hippel); service on several APS committees. Scientific Advisory Panel for Synthesis, KPBS-TV; Advisory Committee, Educational Fund for Individual Rights. AAAS activities: Committee on Science in the Promotion of Human Welfare, 1973-74; Committee on Scientific Freedom and Responsibility, 1976-, chairman, Subcommittee on Science and Human Rights.

Section C-Chemistry

Chairperson-Elect (one to be elected).

Richard T. Arnold
Charles G. Overberger

Richard T. Arnold (organic chemistry), 1913; B.Ed., Southern Illinois University, 1934; M.S., 1935, and Ph.D., 1937, University of Illinois. Professor of chemistry and biochemistry, Southern Illinois University, Carbondale, since 1970. Previously with University of Minnesota, Alfred P. Sloan Foundation, Mead Johnson Research Center, and Mead Johnson & Company; science attache, U.S. Embassy, Bonn, 1952-53. Award in Pure Chemistry, American Chemical Society, 1949; Alumni Achievement Award, SIU-C, 1963; Kaplan Research Award, Sigma Xi, 1979; president, Sigma Xi (SIU-C), 1975. President, Organic Syntheses, Inc. AAAS activities: Section Committee, Section on Chemistry, and Council, 1956-57; Committee on Cooperation Among Scientists, 1959-65.

Charles G. Overberger (polymer chemistry), 1920; B.S., Pennsylvania State University, 1941; Ph.D., University of Illinois, 1944. With University of Michigan since 1967; director, Macromolecular Research Center, since 1968; vice president for research since 1972. Previously with Polytechnic Institute of Brooklyn. New York Award, American Institute of Chemists, 1960; Witco Award in Polymer Chemistry, 1968, and Charles Lathrop Parsons Award, 1978, American Chemical Society; Distinguished Alumni Award, University of Pennsylvania, 1975; International Award, Society of Plastics Engineers, 1979; past president, ACS, and Macromolecular Division, International Union of Pure and Applied Chemistry; past chairman, Polymer Division and New York Section, ACS, Board of Trustees, Gordon Research Conferences, U.S. National Committee of IUPAC, and Executive Committee, Council on Research Policy and Graduate Education, National Association of State Universities and Land-Grant Colleges. Member of various advisory panels, NSF and NAS; Bureau and Executive Committee, IUPAC; Board of Directors, Oak Ridge Associated Universities; editor, *Journal of Polymer Science*; Advisory Boards, *Organic Preparations and Procedures, Int.*, *Polymer News*, and *Macromolecules*. AAAS activities: member-at-large of the Section Committee, Section T, 1965-68; representative, Gordon Research Conferences, 1966-68; Council, 1966-73; Section Committees, Section on Chemistry (C) and Section T, 1968-73; chairperson, Section C, 1969.

Member-at-Large of the Section Committee (one to be elected).

Lester C. Krogh
Daniel Swern

Lester C. Krogh (organic chemistry), 1925; B.S., 1945, and M.S., 1948, University of Nebraska; Ph.D., University of Minnesota, 1952. With 3M Company since 1952; vice president, Commercial Chemicals Division, since 1973. Chairman, Constitution and Bylaws, 1969-70, trustee, Pensions for Professionals, 1971-74, vice chairman, Centennial Coordinating Committee, 1972-76, chairman, Centennial Finance Committee, 1972-76, and vice chairman, Council Policy Committee, 1973, American Chemical Society; past director, Minnesota Academy of Science; alternate director, Chemical Manufacturers' Association, 1977-80. Chairman of the Board, National Home Fashions League, Educational Foundation, Inc.

Daniel Swern (organic chemistry), 1916; B.S., City College of New York, 1935; M.A., Columbia University, 1936; Ph.D., University of Maryland, 1940. Professor of chemistry and senior research investigator, Fels Research Institute, Temple University, since 1963. Previously with U.S. Department of Agriculture, Eastern Regional Research Laboratory; adjunct professor of chemistry, Drexel Institute of Technology, 1954-63; Fulbright visiting professor, Japan, 1966; resident guest lecturer, Weizmann Institute, 1967; honorary research fellow, University of London, 1970. Arthur S. Fleming Award, 1955; John Scott Award, 1956; Federal Civil Servant of the Year, 1962; J. J. Mattiello Award, 1963; Charles F. Spencer Award, 1964; A. E. Bailey Award, 1966; Award in Lipid Chemistry, American Oil Chemists Society, 1968; chairman, Gordon Research Conference on Organic Reactions, 1966, and Philadelphia Section, American Chemical Society, 1968.

Members of the Electorate Nominating Committee (two to be elected).

Henry E. Baumgarten
Joseph F. Bunnett
Richard M. Lemmon
Jack Schubert

Henry E. Baumgarten (organic chemistry), 1921; B.A., 1943, M.A., 1944, and Ph.D., 1948, Rice University. With University of Nebraska, Lincoln, since 1949; foundation professor of chemistry since 1964. Previously with University of Illinois. Guggenheim fellow, 1962-63; secretary, Editorial Board, *Organic Syntheses*, 1959-69; Board of Editors, *Journal of Organic Chemistry*, 1963-68. Advisory Board, *Organic Syntheses*.

Joseph F. Bunnett (organic chemistry), 1921; B.A., Reed College, 1942; Ph.D., University of Rochester, 1945. Professor of chemistry, University of California, Santa Cruz, since 1966. Previously with Western Pine Association, Reed College, University of North Carolina, and Brown University. Executive Committee, Division of Organic Chemistry, 1962-64, and chairman, Rhode Island Section, 1964-65, American Chemical Society. U.S. National Committee for IUPAC; chairman, IUPAC Commission on Physical Organic Chemistry; Executive Committee, Division of Organic Chemistry, IUPAC; Nomenclature Committee, ACS; editor, *Accounts of Chemical Research*.

Richard M. Lemmon (chemistry), 1919; A.B., Stanford University, 1941; M.S., California Institute of Technology, 1943; Ph.D., University of California, Berkeley, 1949. Research chemist, Lawrence Berkeley Laboratory, since 1951, and associate director, Laboratory of Chemical Biodynamics, University of California, Berkeley, since 1957. Previously with the State of California and California Institute of Technology. U.S. Public Health Service postdoctoral fellow, 1950-51; Guggenheim fellow, 1964-65; chairman, California Section, American Chemical Society, 1961. National Council and Board of Directors, ACS.

Jack Schubert (chemistry), 1917; B.S., 1940, and Ph.D., 1944, University of Chicago. Professor of environmental health sciences, Hope College, since 1977. Previously with Manhattan Project, University of Minnesota, Argonne National Laboratory, University of Buenos Aires, and University of Pittsburgh. NSF senior postdoctoral fellow, 1956-57; distinguished scientist lecturer, Society of Experimental Biology and Medicine, 1974; Council, Environmental Mutagen Society, 1969-71, and Radiation Research Society, 1971-74. Board of Editors, *The Biochemistry of the Elements*.

Section D—Astronomy

Chairperson-Elect (one to be elected).

Irwin I. Shapiro
Elske v. P. Smith

Irwin I. Shapiro (astrophysics), 1929; B.A., Cornell University, 1950; M.S., 1951, and Ph.D., 1955, Harvard University. With Massachusetts Institute of Technology since 1954; professor of geophysics and physics since 1967. Sherman Fairchild distinguished scholar, C.I.T., 1974; Morris Loeb lecturer on physics, Harvard University, 1975. Member, National Academy of Sciences; Albert A. Michelson Medal, Franklin Institute, 1975; Benjamin Apthorp Gould Prize, NAS, 1979;

chairman, Division on Dynamical Astronomy, and committeeman, Division for Planetary Science, American Astronomical Society, 1970-71; Executive Committee, Cosmic Physics Division, American Physical Society, 1978-80. Space Science Board and chairman, Committee on Gravitational Physics, SSB, NAS; Fellows Committee, American Geophysical Union; Editorial Council, *Annals of Physics*.

Elske v. P. Smith (astronomy), 1929; B.S., 1950, M.S., 1951, and Ph.D., 1955, Radcliffe College. With University of Maryland since 1963; professor of astronomy since 1975; assistant vice chancellor for academic affairs since 1978. Previously with Sacramento Peak Observatory and Lowell Observatory; visiting fellow, Joint Institute for Laboratory Astrophysics, Boulder, 1962-63. Treasurer, Solar Physics Division, American Astronomical Society, 1970-74; chapter president, Phi Beta Kappa, Gamma of Maryland, 1975. Council, AAS; chairman, U.S. National Committee, International Astronomical Union; Astronomy Survey Committee Panel on Organization, Education and Personnel in Astronomy; National Climate Program Advisory Committee.

Member-at-Large of the Section Committee (one to be elected).

Laura P. Bautz
Jill J. Wittels

Laura P. Bautz (astronomy), 1940; B.A., Vanderbilt University, 1961; Ph.D., University of Wisconsin, Madison, 1967. With National Science Foundation since 1975; deputy director, Division of Physics, since 1979. Previously with Northwestern University. NSF Meritorious Service Award, 1979. AAAS activities: Electorate Nominating Committee, Section on Astronomy, 1977-79, chairperson, 1979.

Jill J. Wittels (radio astronomy, atmospheric physics), 1949; B.S., 1970, and Ph.D., 1975, Massachusetts Institute of Technology. Principal development engineer, Honeywell Electro-Optics Center, since 1979. Previously with MIT and office of Senator William Proxmire (American Physical Society congressional science fellow); NAS senior visiting scientist to USSR, 1976. Committee on the Status of Women in Physics, 1973, and Congressional Fellows Selection Committee, 1979, APS. MIT Educational Council.

Members of the Electorate Nominating Committee (two to be elected).

Norman H. Baker
Roberta M. Humphreys
Catherine A. Pilachowski
Carl B. Pilcher

Norman H. Baker (astronomy), 1931; B.A., University of Minnesota, 1952; Ph.D., Cornell University, 1959. With Columbia University since 1965; professor of astronomy since 1971. Previously with Convair Scientific Research Laboratory, Institute for Advanced Study, NASA/GISS, and New York University; visiting fellow, Max Planck Institut für Physik und Astrophysik, 1959-60; visiting lecturer, Yale University, 1963-64. NAS-NRC research fellow, 1961-62. Editor, *Astronomical Journal* and *Bulletin of the American Astronomical Society*.

Roberta M. Humphreys (astronomy), 1944; A.B., Indiana University, 1965; M.A., 1967, and Ph.D., 1969, University of Michigan. With University of Minnesota since 1972; associate professor since 1976. Previously with

Vanderbilt University and University of Arizona. Sloan fellow, 1976–80. User's Committee, Kitt Peak National Observatory.

Catherine A. Pilachowski (astronomy), 1949; B.S., Harvey Mudd College, 1971; M.S., 1973, and Ph.D., 1975, University of Hawaii. Assistant support scientist, Kitt Peak National Observatory, since 1979. Previously with University of Hawaii and University of Washington. Standing Committee on the Status of Women, American Astronomical Society.

Carl B. Pilcher (planetary science), 1947; B.S., Polytechnic Institute of Brooklyn, 1968; Ph.D., Massachusetts Institute of Technology, 1973. With University of Hawaii since 1973; associate professor, Institute for Astronomy and Department of Physics and Astronomy, since 1979. Nominating Subcommittee, Division for Planetary Sciences, American Astronomical Society, 1977–79, chairman, 1979. Project Galileo Imaging Science Team; Planetary Geology Proposal Review Panel.

Section E—Geology and Geography

Chairperson-Elect (one to be elected).

Charles J. Mankin
Arthur A. Socolow

Charles J. Mankin (geology), 1932; B.S., 1954, M.A., 1955, and Ph.D., 1958, University of Texas. With University of Oklahoma since 1959; professor of geology since 1964; director, Oklahoma Geological Survey, since 1967; director, Energy Resources Center, since 1978. Previously with California Institute of Technology. Rocky Mountain Federation of Gem and Mineral Society Award, 1972; secretary-treasurer, 1969–73, and president, 1975–76, Association of American State Geologists; vice president, 1976–77, and president, 1977–78, American Geological Institute. National secretary-treasurer, Sigma Gamma Epsilon; Education Committee, American Association of Petroleum Geologists; Committee on Stratigraphic Units of North America; Commission on Natural Resources, U.S. National Committee on Geology, Continental Scientific Drilling Committee, and vice chairman, Board on Mineral and Energy Resources, NAS-NRC; Board of Directors, Gulf Universities Research Consortium. AAAS activities: member-at-large of the Section Committee, Section on Geology and Geography, 1979–82.

Arthur A. Socolow (economic geology), 1921; B.S., Rutgers University, 1942; M.A., 1947, and Ph.D., 1955, Columbia University. With Pennsylvania Geological Survey since 1957; state geologist and director since 1961. Previously with U.S. Geological Survey, U.S. Army Air Force, Southern Methodist University, Boston University, and University of Massachusetts. Ralph Digman Award for distinguished service to geologic education, National Association of Geology Teachers, 1980; president, Northeast Section, NAGT, 1954, Philadelphia Geological Society, 1968, and Association of American State Geologists, 1978; chairman, American Commission on Stratigraphic Nomenclature, 1976. Secretary-treasurer, Northeast Section, NAGT; Governor's representative and member, Research, Environmental, and Resolutions Committees, Interstate Oil Compact Commission; Outer Continental Shelf Technical Advisory Committee, U.S. Department of the Interior;

chairman, Field Conference of Pennsylvania Geologists; vice chairman, Pennsylvania Water Resources Coordinating Committee; Advisory Committee on Nuclear Waste Disposal, AASG. AAAS activities: member-at-large of the Section Committee, Section on Geology and Geography, 1975–78.

Member-at-Large of the Section Committee (one to be elected).

John D. Haun
Melinda S. Meade

John D. Haun (petroleum geology), 1921; B.A., Berea College, 1948; M.A., 1949, and Ph.D., 1953, University of Wyoming. Professor of geology, Colorado School of Mines, since 1955; consultant, Barlow & Haun, Inc., since 1957. Previously with Stanolind (Amoco) and Petroleum Research Corporation. Distinguished Service Award, American Association of Petroleum Geologists, and Outstanding Professor Award, Colorado School of Mines, 1973; editor, AAPG, 1967–71; president, Rocky Mountain Association of Geologists, 1968, American Institute of Professional Geologists, 1976, and AAPG, 1979–80; secretary-treasurer, American Geological Institute, 1977–78. Oil Shale Advisory Committee, Office of Technology Assessment; Tight Gas Reservoirs Task Group, National Petroleum Council; Energy Resources Committee, Interstate Oil Compact Commission; Colorado Oil and Gas Conservation Commission; Committee on Exploration Affairs, American Petroleum Institute. AAAS activities: Electorate Nominating Committee, Section on Geology and Geography (E), 1977–79; Section Committees, Section E and Section on Chemistry, 1977–.

Melinda S. Meade (geography), 1945; B.A., Hofstra University, 1966; M.A., Michigan State University, 1970; Ph.D., University of Hawaii, 1974. Assistant professor, Department of Geography, University of North Carolina, since 1978. Previously with University of California International Center for Medical Research (Kuala Lumpur), University of California, Los Angeles, and University of Georgia; geographer, U.S. Geological Survey, and fellow, Carolina Population Center, 1979–80. Chairperson, Medical Geography Specialty Group, Association of American Geographers; Editorial Board, *The Southeastern Geographer*; program officer, Southeast Regional Conference, Association for Asian Studies. AAAS activities: Panel for the Effects of Climate Change on Human and Animal Health, Project on Environmental and Societal Consequences of a CO₂-Induced Climate Change.

Members of the Electorate Nominating Committee (two to be elected).

Ian Burton
Milton B. Dobrin
Priscilla C. Grew
H. Jesse Walker

Ian Burton (geography, environment), 1935; B.A., 1956, and M.A., 1957, University of Birmingham; Ph.D., University of Chicago, 1962. With University of Toronto since 1962; professor of geography since 1969; director, Institute for Environmental Studies, since 1979. Previously with University of Indiana; Ford Foundation consultant in water management, India, 1964–66; visiting professor, University of East Anglia, 1972–73. Canadian National Committee for Scientific Committee on Problems of the Environment.

Milton B. Dobrin (geophysics), 1915; B.S., Massachusetts Institute of Technology, 1936; M.S., University of Pittsburgh, 1941; Ph.D., Columbia University, 1950. Professor in charge of geophysics program, University of Houston, since 1969. Previously with Gulf Research & Development Company, Naval Ordnance Laboratory, Magnolia Petroleum Company, Triad Oil Company, and United Geophysical Corporation. President, Society of Exploration Geophysicists, 1969–70; chairman, U.S. National Committee on Geology, 1973–74, and Geophysics Division, Geological Society of America, 1977–78. Governing Committee, COCORP Project; chairman, Review Committee, Geology Department, Syracuse University; Continuing Education Committee, SEG.

Priscilla C. Grew (geology), 1940; B.A., Bryn Mawr College, 1962; Ph.D., University of California, Berkeley, 1967. Director, California Department of Conservation, since 1977. Previously with Boston College and University of California, Los Angeles; visiting assistant professor, University of California, Davis, 1973–74. Seven College Conference regional scholar, Bryn Mawr College, 1958–62; NSF graduate fellow, 1962–66; Distinguished Service Award, Soil Conservation Society of America, California Chapter, Capitol Section, 1980; Committee on Nominations, Geological Society of America, 1974. U.S. Geological Survey Earthquake Studies Advisory Panel; chairperson, Geothermal Resources Board, State of California; Executive Group, National Plan of Action to Combat Desertification, U.S. Department of the Interior, Bureau of Land Management.

H. Jesse Walker (physical geography), 1921; A.B., 1950, and M.A., 1954, University of California, Berkeley; Ph.D., Louisiana State University, 1960. Boyd professor, Department of Geography, Louisiana State University, since 1960. Previously with Georgia State University and Office of Naval Research; visiting professor, University of California, Berkeley, and University of Hawaii; research geographer, Arctic, Desert, Tropic Information Center, Maxwell AFB, 1957–58; liaison scientist, Office of Naval Research, London, 1968–69. Distinguished Research Master Award, Louisiana State University, 1974; Honors Award, Association of American Geographers, 1977; Japan Foundation fellow, 1979. Chairman, Marine Geographers Committee, 1972–75; Council, 1973–76, and chairman, Committee on Committees, 1974–76, AAG. Vice-chairman and secretary, International Commission on the Coastal Environment, International Geographical Union; U.S. National Committee for the IGU and Advisory Board, Office of Earth Sciences, NRC.

Section G—Biological Sciences

Chairperson-Elect (one to be elected).

Carl Gans
Bodil Schmidt-Nielsen

Carl Gans (zoology, functional morphology), 1923; B.M.E., New York University, 1944; M.S., Columbia University, 1950; Ph.D., Harvard University, 1957. Professor of zoology, Division of Biological Sciences, and research scientist, Museum of Zoology, University of Michigan, since 1971. Previously with Babcock & Wilcox Company and State University of New York, Buffalo;

research associate, American Museum of Natural History and Carnegie Museum. Guggenheim fellow, 1953-54 and 1978-79; chairman, Section on Vertebrate Morphology, 1963-64, Council, 1972-74, and president, 1977, American Society of Zoologists; vice president, Society for the Study of Evolution, 1971; Council, Society of Systematic Zoologists, 1973-75; Governing Board, American Institute of Biological Sciences, 1976-78. President, American Society of Ichthyologists and Herpetologists; managing editor, *Journal of Morphology*; general editor, *Biology of the Reptilia*; various editorial boards.

Bodil Schmidt-Nielsen (physiology), 1918; D.D.S., 1941, D.Odont., 1946, and Ph.D., 1955, University of Copenhagen. Research scientist, Mount Desert Island Biological Laboratory (Maine) since 1971, vice president and deputy director since 1979; adjunct professor, Case Western Reserve University and Brown University, since 1971. Previously with University of Copenhagen, Swarthmore College, Stanford University, University of Cincinnati, Duke University, and Case Western Reserve University. Guggenheim fellow, 1952-53; Bowditch lecturer, 1958; Jacobaeus lecturer, 1974; Career Award, NIH, 1962-64; fellow, American Academy of Arts and Sciences; Physiology Training Grant Committee, NIH, 1967-71; Council, Society of Experimental Biology and Medicine, 1967-71, and American Physiological Society, 1975-76; president, APS, 1975-76. Associate editor, *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. AAAS activities: Section Committee, Section on Biological Sciences, and Council, 1977-79.

Member-at-Large of the Section Committee (one to be elected).

Holger W. Jannasch
Lynn Margulis

Holger W. Jannasch (microbiology), 1927; Ph.D., University of Gottingen, 1955. Senior scientist, Woods Hole Oceanographic Institution, since 1963. Previously with Max Planck Society and University of Gottingen. Henry Bryant Bigelow Medal in Oceanography, 1980. Advisory Board, Environmental Affairs, Boston College Law School; Committee on Environmental Microbiology, American Society for Microbiology; director, Microbial Ecology Course, Marine Biological Laboratory, Woods Hole; UNESCO/UNEP/ICRO Panel on Microbiology.

Lynn Margulis (biology), 1938; A.B., University of Chicago, 1957; M.S., University of Wisconsin, Madison, 1960; Ph.D., University of California, Berkeley, 1965. Professor of biology, Boston University, since 1967. Visiting professor of paleobiology, California Institute of Technology; visiting professor, Scripps Institution of Oceanography. George Lamb Award, University of Nebraska, 1972; Sherman Fairchild fellow, 1977; Guggenheim fellow, 1979; president, International Society for Evolutionary Protistology, 1978-79. Space Science Board and chairman, Committee on Planetary Biology and Chemical Evolution, NAS. AAAS activities: Electorate Nominating Committee, Section G, 1974.

Members of the Electorate Nominating Committee (two to be elected).

Robert L. DeHaan
Elizabeth McFall
John L. Roberts
Sarah Ann Woodin

Robert L. DeHaan (developmental physiology), 1930; B.A., 1952, M.A., 1954, and Ph.D., 1956, University of California, Los Angeles. With Emory University since 1973; William Patterson Timmie professor of anatomy and professor of physiology since 1976. Previously with Carnegie Institution of Washington, Johns Hopkins University, and Marine Biological Laboratories, Woods Hole; visiting assistant professor, Haverford College, 1961; visiting investigator, Institute of Zoology, University of Zurich, 1962-63. Teaching Excellence Award, Emory Medical School, 1976; Faculty Scholar, Josiah Macy, Jr., Foundation, 1980; Editorial Board, *In Vitro*, 1970-79; international secretary, International Society of Developmental Biologists, 1971-77; Southern Regional Research Review and Advisory Committee, American Heart Association, 1974-78; chairman, Gordon Research Conference on Muscle, 1976; chairman, Organizing Committee, 23rd Annual Meeting, Biophysical Society, 1979. Extramural research associate, Department of Embryology, Carnegie Institution of Washington; Editorial Board, *Development, Growth and Differentiation*.

Elizabeth McFall (molecular biology), 1928; B.S., San Diego State College, 1950; M.A., 1954, and Ph.D., 1957, University of California, Berkeley. Professor of microbiology, New York University School of Medicine, since 1963. Previously with University of California, Berkeley, Harvard University, and Massachusetts Institute of Technology. Research fellow, National Institute of Medical Research, London, and U.S. Public Health Service special fellow, 1961-62. Editor, *Journal of Bacteriology*; Microbial Chemistry Study Section, NIH.

John L. Roberts (zoology, comparative physiology), 1922; B.S., 1947, and M.S., 1948, University of Wisconsin; Ph.D., University of California, Los Angeles, 1953. With University of Massachusetts since 1952; professor of zoology since 1970. NIH special fellow, 1966-67; senior research associate, NRC-NOAA, La Jolla, 1973-75; secretary, Division of Comparative Physiology and Biochemistry, 1970-72, and secretary and member, Executive Committee, 1976-79, American Society of Zoologists. Editorial Board, *Physiological Zoology*.

Sarah Ann Woodin (ecology), 1945; B.A., Goucher College, 1967; Ph.D., University of Washington, 1972. Assistant professor, Department of Earth and Planetary Sciences, Johns Hopkins University, since 1975. Previously with University of Maryland; visiting faculty, Friday Harbor Laboratories, 1974. Recognition Award for Young Scholars, American Association of University Women, 1977; coordinator, 2nd and 4th Annual Benthic Ecology Conferences, 1974, 1976; Friday Harbor Advisory Committee, 1978; organizer, Symposium on Life History Strategies of Marine Invertebrates, American Society of Zoologists, 1979. Friday Harbor Marine Science Fund Advisory Board; marine editor, *Ecology and Ecological Monographs*.

Section H—Anthropology

Chairperson-Elect (one to be elected).

John W. Bennett
Harold C. Conklin

John W. Bennett (anthropology), 1915; B.A., Beloit College, 1937; M.A., 1941, and

Ph.D., 1946, University of Chicago. Professor, Washington University, since 1959; program associate, Land Tenure Center, University of Wisconsin; visiting professor, Office of Arid Land Studies, University of Arizona. Previously with USDA, Japan Occupation, and Ohio State University; Lichstein fellow, University of Chicago, 1939-41; visiting professor, University of Puerto Rico, 1961, and Waseda University (Tokyo), 1966-67. President, Central States Anthropological Society, 1958-60, Society for Applied Anthropology, 1960-61, and American Ethnological Society, 1971-72; Man and the Biosphere Program, U.S. Advisory Committee and International Working Group for Project 3 on Grassland Ecology and Economy, UNESCO, 1973-75; chairman, Anthropological Study Group for Agrarian Systems, 1974-79. Committee on Soil as a Resource in Relation to Surface Mining, NAS-NRC; Steering Committees, Anthropological Study Group for Agrarian Systems and Network for the Ecology of Human Systems; Project 12, U.S. Man and the Biosphere Program; Editorial Board, *Reviews in Anthropology*. AAAS activities: Advisory Committee on Desertification, 1976-77; Committee on Arid Lands, 1978-.

Harold C. Conklin (anthropology), 1926; A.B., University of California, Berkeley, 1950; Ph.D., Yale University, 1955. Professor of anthropology, Yale University, since 1962; curator of anthropology, Peabody Museum of Natural History, since 1974. Previously with Columbia University; lecturer, Rockefeller Institute, 1961-62. Member, National Academy of Sciences; fellow, American Academy of Arts and Sciences; Guggenheim fellow, 1973-74; fellow, Center for Advanced Study in the Behavioral Sciences, 1978-79; Council, 1960-62, and president, 1978-79, American Ethnological Society; Pacific Science Board, NRC, 1962-66; Board of Directors, Social Science Research Council, 1964-69; Executive Board, American Anthropological Association, 1965-68; Anthropology Panel, NSF, 1969-71; president, Institute for Intercultural Studies, 1970. Board of Directors, Institute for Intercultural Studies; Advisory Group, Council on International Communications; Advisory Board, *Lexis*; Editorial Board, *Journal d'Agriculture Tropicale et de Botanique Appliquée*. AAAS activities: Council, 1971-73; member-at-large of the Section Committee, Section on Anthropology, 1971-74.

Member-at-Large of the Section Committee (one to be elected).

Douglas W. Schwartz
Ruth E. Tringham

Douglas W. Schwartz (anthropology), 1929; B.A., University of Kentucky, 1950; Ph.D., Yale University, 1955. President, School of American Research, since 1967. Previously with University of Oklahoma and University of Kentucky. Award for outstanding contribution in the field of historical publication, American Association for State and Local History, 1968; president, Society for American Archaeology, 1973; chairman, Secretary of the Interior's Advisory Board on National Parks, 1977-78. President, Witter Bynner Foundation for Poetry; vice chairman, Harvard University Overseer's Committee on the Peabody Museum; trustee, Jane Goodall African Wildlife Research Institute; Council, National Park Advisory Board; Advisory Board, Public Broadcasting Associates; vice chairman, Archaeological Conservancy.

Ruth E. Tringham (anthropology, archaeology), 1940; M.A., 1963, and Ph.D., 1966, University of Edinburgh. Associate professor of anthropology, University of California, Berkeley, since 1978. Previously with University College (London) and Harvard University. British Council scholar, 1963-64 and 1966-67; Anthropology Review Board, NSF, 1976-78. Editorial Board, *Advances in Archaeological Method and Theory*.

Members of the Electorate Nominating Committee (two to be elected).

C. Melvin Aikens
Jane C. Goodale
Shirley Gorenstein
Jeremy A. Sabloff

C. Melvin Aikens (anthropology, archaeology), 1938; B.A., University of Utah, 1960; M.A., 1962, and Ph.D., 1966, University of Chicago. With University of Oregon since 1969; professor of anthropology and curator of archaeology, Oregon State Museum of Anthropology, since 1978; department chairman since 1979. Previously with University of Utah and University of Nevada. Woodrow Wilson fellow, 1960; NDEA Title IV fellow, 1960-63; NSF science faculty fellow, Kyoto University, 1971-72; Japan Foundation fellow, 1977-78; president, Association of Oregon Archaeologists, 1975-77. Assistant editor for current research, California-Great Basin area, *American Antiquity*; Editorial Board, *Journal of California and Great Basin Anthropology*; Behavioral Neural Sciences Advisory Committee, Subcommittee on Anthropology, NSF.

Jane C. Goodale (social-cultural anthropology), 1926; B.A., 1948, and M.A., 1951, Radcliffe College; Ph.D., University of Pennsylvania, 1959. With Bryn Mawr College since 1961; professor of anthropology since 1975. Previously with University of Pennsylvania. Past councilor, American Ethnological Society; past editor, secretary, and president, Philadelphia Anthropological Society; Review Panel for Anthropology, NSF, 1976-78. Executive Board, Association for Social Anthropology in Oceania; president, Bryn Mawr Chapter, Sigma Xi.

Shirley Gorenstein (anthropology), 1928; B.A., Queens College, 1949; M.A., 1953, and Ph.D., 1963, Columbia University. With Rensselaer Polytechnic Institute since 1975; professor of anthropology and director, Program in Public Archaeology, since 1978. Previously with Columbia University. Chair, Committee on the Status of Women, 1971, program editor, 1975, and Executive Board, 1976-79, American Anthropological Association; Executive Board, Association for Field Archaeology, 1975-77. New York State Coordinator, Society of Professional Archaeologists; Committee on the National Register and Committee on Legislation, New York State Board for Historic Preservation.

Jeremy A. Sabloff (anthropology), 1944; B.A., University of Pennsylvania, 1964; M.A. and Ph.D., Harvard University, 1969. Professor of anthropology, University of New Mexico, since 1978. Previously with Harvard University and University of Utah. Editor, *American Antiquity*.

Eleanor J. Gibson (psychology), 1910; B.A., 1931, and M.A., 1933, Smith College; Ph.D., Yale University, 1938. With Cornell University since 1949; Susan Linn Sage professor of psychology, emeritus, since 1979. Previously with Smith College. Member, National Academy of Sciences; Distinguished Scientist Award, American Psychological Association, 1968; G. Stanley Hall Award, Division 7, APA, 1970; Wilbur Cross Medal, Yale University, 1973; Warren Medal, Society for Experimental Psychology, 1977; president, Eastern Psychological Association, 1968, and Division 3, APA, 1976. Governing Council, Society for Research in Child Development; Visiting Committee, Psychology and Social Relations, Harvard University.

Marian Radke Yarrow (psychology), 1918; B.A., University of Wisconsin, 1939; M.A., 1941, and Ph.D., 1944, University of Minnesota. With National Institute of Mental Health since 1953; chief, Laboratory of Developmental Psychology, since 1974. Previously with State University of Iowa, Massachusetts Institute of Technology, Queens College, University of Denver, and George Washington University. Certificate of Merit, DHEW, 1978; president, Division of Developmental Psychology, American Psychological Association, 1963; secretary, Society for Research in Child Development, 1970-71. Board, Foundations Fund for Research in Psychiatry; Board, Scientific Counselors, National Aging Institute.

Member-at-Large of the Section Committee (one to be elected).

Leslie H. Hicks
Betty H. Pickett

Leslie H. Hicks (psychology), 1927; B.S., Howard University, 1949; M.S., 1952, and Ph.D., 1954, University of Wisconsin. With Howard University since 1954; professor since 1968; chairman, Department of Psychology, since 1970. Special fellow, Department of Anatomy, University of California, Los Angeles, 1959-62; administrative officer, Scientific Affairs, American Psychological Association, 1968-70; fellow, Center for Advanced Study in the Behavioral Sciences, 1978-79. Graduate Record Examinations Committee of Examiners for the Advanced Psychology Test, Educational Testing Services, 1970-78, chairman, 1976-78; Advisory Council, Department of Psychology, Princeton University, 1970-80; Committee on Ethics in Human Research, 1971-73, Education and Training Board, 1972-75, Committee on Equality of Opportunity in Psychology, 1975-77, and Board of Social and Ethical Responsibility, 1976-78, APA. Advisory Screening Committee in Psychology, Council for International Exchange of Scholars (Fulbright-Hays Awards). AAAS activities: Committee on Minorities in Science, 1971-73; Panel on Black Scientists, 1973-.

Betty H. Pickett (psychology), 1926; A.B., 1945, Sc.M., 1947, and Ph.D., 1949, Brown University. With National Institutes of Health since 1958; deputy director, National Institute of Child Health and Human Development, since 1979. Previously with University of Minnesota, Duluth Branch, University of Nebraska, University of Connecticut, and Smithsonian Institution. Superior Service Award, 1972, and Distinguished Service Award, 1975, DHEW; citation for scientific and professional achievement, Brown University Graduate School, 1978; Harold M. Hildreth Award, 1979; Health Scientist Ad-

ministrators Panel, Civil Service Commission Board of Examiners, 1970-76; co-chairperson, Psychology Study Group, NIMH Research Task Force, 1972-74; Director's Research Advisory Group, NIMH, 1974-77; chairperson, Task Force to Study the Research Program of St. Elizabeths Hospital, 1975; NIAAA Task Force on Grants and Contracts to National Organizations, 1976; NIH Extramural Associates Program, 1978. Grants Associate Board, Division of Research Grants, NIH.

Members of the Electorate Nominating Committee (two to be elected).

Edward Calvin Carterette
James S. Jackson
Sheldon J. Korchin
Stanley Schachter

Edward Calvin Carterette (experimental psychology), 1921; B.A. (mathematics), University of Chicago, 1949; B.A. (psychology), Harvard University, 1952; M.A., 1954, and Ph.D., 1957, Indiana University. With University of California, Los Angeles, since 1956; professor of experimental psychology since 1968. Previously with U.S. Army, Massachusetts Institute of Technology, and Indiana University; visiting associate professor, University of California, Berkeley, 1965-66. NSF fellow, 1955-56, 1960-61, and 1964-65; Technical Committee on Psychological and Physiological Acoustics, Acoustical Society of America, 1962-65; chairman, Membership Committee, Division of Experimental Psychology, American Psychological Association, 1963-65 and 1974, and XV Regional Selection Committee, Woodrow Wilson National Fellowship Foundation, 1966-72; Steering Committee, National Conference on Use of Online Computing in Psychology, 1973-75. Associate editor, *Perception and Psychophysics*; co-editor, *Handbook of Perception and Academic Press Series on Cognition and Perception*; distinguished visitor, APA.

James S. Jackson (social psychology), 1944; B.S., Michigan State University, 1966; M.S., University of Toledo, 1970; Ph.D., Wayne State University, 1972. With University of Michigan since 1971; associate professor of psychology since 1977; faculty associate, Institute for Social Research and Institute of Gerontology. NSF fellow, 1969; Urban Studies fellow, Wayne State University, 1969-70; Distinguished Faculty Achievement Award, 1975-76; national chair, Association of Black Psychologists, 1972-73. Chair, Board of Trustees, Association for the Advancement of Psychology; Committee on Aging, NAS; Board of Directors, Public Committee on Mental Health.

Sheldon J. Korchin (psychology), 1921; B.A., Brooklyn College, 1942; M.A., Clark University, 1943; Ph.D., Harvard University, 1946. Professor of psychology, University of California, Berkeley, since 1963. Previously with Harvard University, Princeton University, VA Mental Hygiene Clinic (Philadelphia), Michael Reese Hospital, University of Chicago, and NIMH; Fulbright professor, Italy, 1960-61. NIMH senior research fellow, 1970-71; Distinguished Contribution to Clinical Psychology as a Science and Profession, Division 12, American Psychological Association, 1978; Distinguished Scientific Contribution, California State Psychological Association, 1979; Education and Training Board, APA, 1964-68; Clinical Research Study Section, NIMH, 1972-76. Board of Social and Ethical Responsibility, APA; Advisory Board, Na-

Section J—Psychology

Chairperson-Elect (one to be elected).

Eleanor J. Gibson
Marian Radke Yarrow

tional Center for Asian American Psychology; Committee on Space Biology and Medicine, NAS; co-chairman, Advisory Committee to the Physically Disabled Students Program, University of California, Berkeley.

Stanley Schachter (psychology), 1922; B.S., 1942, and M.A., 1944, Yale University; Ph.D., University of Michigan, 1949. Professor of psychology, Columbia University, since 1961. Previously with University of Minnesota; visiting professor, University of Amsterdam; Stanford research director; Organization for Comparative Social Research, 1952-54. Fulbright fellow, 1952-53; Guggenheim fellow, 1967-68; AAAS Socio-Psychological Prize, 1959; Distinguished Scientific Contribution Award, American Psychological Association, 1969; James McKeen Cattell Award, 1974. Committee on Substance Abuse, NRC; Board of Directors, Center for Social Research. AAAS activities: AAAS Socio-Psychological Prize Committee of Judges, 1969.

Section K—Social and Economic Sciences

Chairperson-Elect (one to be elected).

John A. Clausen
Thomas C. Schelling

John A. Clausen (sociology, social psychology), 1914; A.B., 1936, and M.A., 1939, Cornell University; Ph.D., University of Chicago, 1949. Professor of sociology, University of California, Berkeley, since 1960; research sociologist, Institute of Human Development. Previously with Virginia State Planning Board, War Department, Veterans Administration, Cornell University, and National Institute of Mental Health; fellow, Center for Advanced Study in the Behavioral Sciences, 1957-58. Member, Institute of Medicine, NAS; Council and Executive Committee, 1957-62, and chair, Section on Social Psychology, 1959-60, and Section on Medical Sociology, 1971-72, American Sociological Association; Board of Directors, Social Science Research Council, 1961-64; Governing Council, Society for Research in Child Development, 1969-75. Board of Directors, Foundations' Fund for Research in Psychiatry; Committee on Sections, ASA; Steering Committee, Study on Stress, Institute of Medicine, NAS; Social Science Research Education Review Committee, National Institute of Mental Health. AAAS activities: Socio-Psychological Prize Committee of Judges, 1964.

Thomas C. Schelling (economics), 1921; A.B., University of California, Berkeley, 1944; Ph.D., Harvard University, 1951. Professor of economics, Harvard University, since 1958; Lucius N. Littauer professor of political economy, John F. Kennedy School of Government. Previously with U.S. Bureau of the Budget, Economic Cooperation Administration, The White House, Executive Office of the President, and Yale University. Frank E. Seidman Distinguished Award in Political Economy, 1977; fellow, American Academy of Arts and Sciences. Chairman, Research Advisory Board, Committee for Economic Development; Academic Advisory Board, Resources for the Future; Assembly of the Behavioral and Social Sciences, NRC.

Member-at-Large of the Section Committee (one to be elected).

Bernard Barber
Nathan Keyfitz

Bernard Barber (sociology), 1918; A.B., 1939, A.M., 1942, and Ph.D., 1949, Harvard University. With Columbia University since 1952; currently professor of sociology, Barnard College and Graduate Faculties. Previously with Tulane University, U.S. Navy, Harvard University, and Smith College; lecturer at numerous colleges and universities, U.S. and abroad. Past and present professional activities: Drug Research Board, NAS; Committees on Placement, on Nominations, and on Ethics, American Sociological Association; vice president, Eastern Sociological Society; Committee on Humanistic Aspects of Science, American Council of Learned Societies; Health Advisory Panel, Office of Technology Assessment; Council, Society for Social Studies of Science; editor, Wiley-Interscience Series on Sociology of Science.

Nathan Keyfitz (sociology, demography), 1913; B.Sc., McGill University, 1934; Ph.D., University of Chicago, 1952; LL.D., University of Western Ontario, 1973. Professor of sociology and demography, Harvard University, since 1972; chairman, Department of Sociology, and director, Center for Population Studies. Previously with Dominion Bureau of Statistics, University of Toronto, University of Chicago, and University of California, Berkeley. Member, National Academy of Sciences; Mindel C. Sheps Award, Population Association of America, 1976; president, PAA, 1970.

Members of the Electorate Nominating Committee (two to be elected).

Charles E. Bidwell
Theodore M. Mills
Hanan C. Selvin
Charles R. Wright

Charles E. Bidwell (sociology), 1932; A.B., 1950, A.M., 1953, and Ph.D., 1956, University of Chicago. With University of Chicago since 1961; currently professor of education and sociology and chairman, Department of Education. Previously with Harvard University. Guggenheim fellow, 1971-72; member, National Academy of Education; vice president, American Educational Research Association, 1973-75. Board of Scholars, Higher Education Research Institute.

Theodore M. Mills (sociology), 1920; A.B., Guilford College, 1941; M.A., Haverford College, 1942; Ph.D., Harvard University, 1952. Professor of sociology and director, Center for the Study of Human Groups, State University of New York, Buffalo, since 1969. Previously with Harvard University and Yale University; visiting Fulbright professor, University of Oslo, 1955-56; fellow, Center for Advanced Study in the Behavioral Sciences, 1964-65; visiting professor, University of Norway, 1973-74. Social Science Research Council postdoctoral fellow, 1951-53; Executive Council, American Sociological Association, 1956; associate editor, *Sociometry*, 1962-67. Board of Directors, Niagara Institute; associate editor, *Personality and Social System*.

Hanan C. Selvin (sociology), 1921; A.B., 1942, and Ph.D., 1956, Columbia University. Professor of sociology, State University of New York, Stony Brook, since 1967. Previously with Columbia University, University of California, Berkeley, and University of Rochester; fellow, Center for Advanced Study in the Behavioral Sciences, 1972-73. NSF senior postdoctoral fellow, 1963-64; co-winner, C. Wright Mills Award, Society for the Study of Social Problems, 1968; vice pres-

ident, Eastern Sociological Society, 1969-70. Committee on Administrative Review, President's Committee on the Handicapped, and Proficiency in Math Committee, SUNY, Stony Brook; Committee for Library Resources, University Faculty Senate, SUNY, Albany; trustee, Industrial Home for the Blind, Brooklyn. AAAS activities: Section Committee, Section on Social and Economic Sciences, 1979-.

Charles R. Wright (sociology), 1927; A.B., 1949, M.A., 1950, and Ph.D., 1954, Columbia University. Professor of communications and sociology, University of Pennsylvania, since 1969. Previously with Columbia University and University of California, Los Angeles; Organization of American States' professor in Latin America, 1963; program director for sociology and social psychology, NSF, 1967-69. President, Pacific Chapter, American Association for Public Opinion Research, 1962; Health Services Research Study Section, DHEW, 1965-71; Scientific and Technical Advisory Board, National Center for Health Services R & D, 1967-71; Executive Board, Eastern Sociological Society, 1977-78. Editorial Boards, *Public Opinion Quarterly* and *Social Psychology: Sociological Perspectives*.

Section L—History and Philosophy of Science

Chairperson-Elect (one to be elected).

Erwin N. Hiebert
Frederick Suppe

Erwin N. Hiebert (history of modern physical science), 1919; B.A., Bethel College, 1941; M.S., University of Chicago, 1949; Ph.D., University of Wisconsin, 1954. Professor of the history of science, Harvard University, since 1970; department chairman since 1977. Previously with Standard Oil Company (Indiana), Manhattan Project, University of Chicago, San Francisco State College, and University of Wisconsin; Fulbright lecturer, Max Planck Institute, 1954-55; visiting scholar, Institute for Advanced Study, 1961-62 and 1968-69; visiting lecturer, University of Tübingen, 1964-65, Hebrew University, 1973, and University of Bielefeld, 1978-79. Vice president, 1971-72, and president, 1973-74, History of Science Society. Vice president, Division of the History of Science, International Union for the History and Philosophy of Science; co-editor, *Studies in the History of Modern Science*; Board of Trustees, Radcliffe College.

Frederick Suppe (history and philosophy of science), 1940; A.B., University of California, 1962; A.M., 1964, and Ph.D., 1967, University of Michigan. Associate professor, University of Maryland, since 1973; chairperson, History and Philosophy of Science Program, since 1975. Previously with General Electric, University of California, Santa Barbara, University of Michigan, USAID, Indian Institute of Technology (Kanpur), and University of Illinois. Amicus Poloniae Badge (Poland), 1974; chairperson, Program Committee, Philosophy of Science Association Biennial Meetings, 1974-76. Program Committee, Joint Atlantic Seminar in the History of Science and the Southern Association for the History of Science; participant in conferences or programs for the Hastings Center, Philosophy of Science Association, Pittsburgh Center for the Philosophy of Science, and Society for Health and Human Values; consulting editor, *Journal of Homosexuality*.

Member-at-Large of the Section Committee (one to be elected).

Ruth Schwartz Cowan
H. Tristram Engelhardt, Jr.

Ruth Schwartz Cowan (history of science), 1941; A.B., Barnard College, 1961; M.A., University of California, Berkeley, 1964; Ph.D., Johns Hopkins University, 1969. With State University of New York, Stony Brook, since 1967; associate professor of history since 1974. Previously with Loyola College and University College (Cambridge); visiting assistant professor, Princeton University, 1972. NSF fellow, 1959-61; NIH fellow, 1966-67; Advisory Council, Society for the History of Technology, 1975-79; Council, History of Science Society, 1976-79; Panel on History and Philosophy of Science, NSF, 1977-79. Committee on Women and chair, Committee on *Isis*, HSS; Executive Council, SHOT; Panel of History and Philosophy of Science, Council on International Education; book review editor, *Quarterly Review of Biology*. AAAS activities: Electorate Nominating Committee, Section on History and Philosophy of Science (L), 1974-75; member-at-large of the Section Committee, Section L, 1977-80.

H. Tristram Engelhardt, Jr., (philosophy of medicine), 1941; Ph.D., University of Texas, Austin, 1969; M.D., Tulane University, 1972. Professor, Department of Philosophy and Division of Health and Humanities, Medical School, and Rosemary Kennedy professor of the philosophy of medicine and senior research scholar, Kennedy Institute of Ethics, Georgetown University, since 1977. Previously with University of Texas Medical Branch. Fulbright fellow, 1969-70. Associate editor, *Journal of Medicine and Philosophy* and *Metamedicine*.

Members of the Electorate Nominating Committee (two to be elected).

Peter D. Asquith
Richard M. Burian
Sally Gregory Kohlstedt
Philip L. Quinn

Peter D. Asquith (philosophy of science), 1942; B.A., Lehigh University, 1964; M.A., University of Pittsburgh, 1966; Ph.D., Indiana University, 1970. With Michigan State University since 1969; associate professor, Department of Philosophy, since 1974. Executive secretary, Philosophy of Science Association; Steering Committee, Council of Philosophical Societies; NAS-NRC Committee for the International Union of the History and Philosophy of Science; editor, *Philosophy of Science Association Newsletter*; Editorial Boards, *Philosophy of Science* and *Science, Technology and Human Values*.

Richard M. Burian (philosophy of science), 1941; B.A., Reed College, 1963; Ph.D., University of Pittsburgh, 1971. Associate professor of philosophy, Drexel University, since 1977. Previously with Florida A & M University and Brandeis University; visiting, University of Pittsburgh, 1978. American Council of Learned Societies fellow, 1976-77; miscellaneous committee work, American Philosophical Association and Philosophy of Science Association.

Sally Gregory Kohlstedt (history), 1943; Ph.D., University of Illinois, 1972. Associate professor, Syracuse University, since 1975. Previously with Simmons College. Smithsonian Institution fellow, 1970-71; Professional Committee, American Historical Association,

1974-76. Danforth associate; secretary, History of Science Society; U.S. National Archives Advisory Council, AHA; National Committee, International Union for the History and Philosophy of Science; Conference of Secretaries, American Council of Learned Societies. AAAS activities: Editorial Board, *Science*, 1980-.

Philip L. Quinn (philosophy of science), 1940; A.B., Georgetown University, 1962; M.S., University of Delaware, 1967; M.A., 1968, and Ph.D., 1970, University of Pittsburgh. With Brown University since 1969; professor and chairman, Department of Philosophy, since 1978. Visiting associate professor, University of Michigan, 1974, University of Illinois (Chicago Circle), 1975, and Ohio State University, 1978. Fulbright fellow, 1962-63; Danforth fellow, 1967-69; Nominating Committee, Philosophy of Science Association, 1975-76. Staff of reviewers, *Mathematical Reviews*; chairman, 1981 Program Committee, American Philosophical Association (Eastern Division).

Section M—Engineering

Chairperson-Elect (one to be elected).

Robert F. Cotellessa
Robert W. Dunlap

Robert F. Cotellessa (electrical engineering), 1923; M.E., 1944, and M.S., 1949, Stevens Institute of Technology; Ph.D., Columbia University, 1962. Provost and professor of electrical engineering and computer science, Stevens Institute of Technology, beginning in 1980. Previously with Allen B. DuMont Laboratories, Inc., New York University, and Clarkson College of Technology. Faculty Award, Clarkson College of Technology, 1969; Citation of Honor, IEEE-USAB, 1979; vice president, Publication Activities, 1973, and Technical Activities, 1974-79, Institute of Electrical and Electronics Engineers; executive vice president, IEEE, 1976. Publications Board and Centennial Task Force Committee, IEEE; National Council of Engineering Examiners Advisory Committee. AAAS activities: Section Committee, Section on Engineering, 1976-; Council, 1979-81.

Robert W. Dunlap (engineering), 1937; B.S., 1960, M.S., 1963, and Ph.D., 1966, University of Michigan. With Environmental Research & Technology, Inc., since 1977; executive vice president beginning in 1980. Previously with General Atomic/General Dynamics and Carnegie-Mellon University; visiting professor, Harvard University, 1967-77. Outstanding Achievement Award, University of Michigan, 1963; Ryan Award, Carnegie-Mellon University, 1971; Carlson Award, American Society for Engineering Education, 1975. Environmental Conservation Distinguished Service Award Committee, American Institute of Mechanical Engineers; National Air Pollution Control Techniques Advisory Committee, Environmental Protection Agency; Evaluation Panel for Energy Programs, National Bureau of Standards, NAS-NRC.

Member-at-Large of the Section Committee (one to be elected).

James J. Conti
Wayland C. Griffith

James J. Conti (chemical engineering), 1930; B.Ch.E., 1954, M.Ch.E., 1956, and D.Ch.E., 1959, Polytechnic Institute of New York. With Polytechnic Institute of New

York since 1959; professor of chemical engineering since 1965; vice president for educational development since 1978. Previously with Allied Carbon & Ribbon Manufacturing Corporation and Westinghouse Atomic Power Division. NSF graduate fellow, 1955-57; Outstanding Young Man of America, Jay Cees, 1966; treasurer and chair, Planning Committee, Association for Media-Based Continuing Education for Engineers, 1979-80. Trustee, Webb Institute of Naval Architecture and Long Island Regional Advisory Council on Higher Education; Advisory Council, National Energy Foundation; Board of Directors, Association for Media-Based Continuing Education for Engineers; Board of Directors and executive vice president, Long Island Forum for Technology.

Wayland C. Griffith (fluid mechanics), 1925; A.B., 1945, M.S., 1946, and Ph.D., 1949, Harvard University. R. J. Reynolds professor of mechanical engineering and director, Engineering Design Center, North Carolina State University, since 1973. Previously with Princeton University and Lockheed Missiles & Space Company; visiting lecturer, Stanford University, 1959-73. AEC fellow, 1949; NSF fellow, 1956; One of Five Outstanding Young Men in California, 1959; Governor's Award, North Carolina, 1978; chairman, Division of Fluid Dynamics, American Physical Society, 1976. Associate editor, *Journal of Fluid Mechanics*; reviewer, *Applied Mechanics Reviews*; Technical Advisory Committees, North Carolina Energy Institute and Institute for Transportation Research and Engineering.

Members of the Electorate Nominating Committee (two to be elected).

Richard M. Emberson
S. Peter Kezios
Bruce S. Old
James S. Shepherd

Richard M. Emberson (electrical engineering, physics), 1914; A.B., 1931, M.A., 1932, and Ph.D., 1936, University of Missouri. Retired in 1979. Past positions with University of Pittsburgh, Massachusetts Institute of Technology, Naval Research Laboratory, U.S. Department of Defense, Associated Universities, Inc., and Institute for Electrical and Electronics Engineers (staff director, Technical Activities, and general manager). Bemis fellow, Harvard College Observatory, 1936-39. Chairman, Constitution and Bylaws Committee, American Association of Engineering Societies; member, Board and committees, IEEE.

S. Peter Kezios (mechanical engineering), 1921; B.S., 1942, M.S., 1948, and Ph.D., 1955, Illinois Institute of Technology. Director, School of Mechanical Engineering, Georgia Institute of Technology, since 1967. Previously with Illinois Institute of Technology. Special Award, Illinois Tech Student Association, 1967; IIT Professional Achievement Award, IIT Alumni Association, 1976; Ralph Coates Roe Award, American Society of Electrical Engineers, 1977; president, IIT Chapter, Sigma Xi, 1963; vice president, Policy Board Communications, 1973-77, and member, Executive Committee, 1975-76, American Society of Mechanical Engineers; president, ASME, 1977-78. Chairman, Membership and Credentials Committee, American Association of Engineering Societies, and Strategic Planning Committee of Committee on Planning and Organization, ASME; U.S. National Committee for UPADI; U.S. vice president and member, Executive Com-

mittee, Congreso Pan Americano de Ingeniería Mecánica, Eléctrica y Ramas Afines.

Bruce S. Old (metallurgy), 1931; B.S., University of North Carolina, 1935; Sc.D., Massachusetts Institute of Technology, 1938. President, Bruce S. Old Associates, Inc., since 1978. Previously with Bethlehem Steel Corporation, U.S. Navy, and Arthur D. Little, Inc. (senior vice president of engineering). Member, National Academy of Engineering; Metropolitan Life Award of Honor, 1967; chairman, Northeast Section, American Nuclear Society, 1960-62, 20th National Conference on the Administration of Research, 1966, and Gordon Research Conference on Science, Technology and Economic Growth, 1968; Presidential Mission to Republic of China on Science and Technology, 1967; foreign secretary, National Academy of Engineering, 1969-77; first U.S. Science Mission to People's Republic of China, 1973; past member, President's Science Advisory Committee, National Materials Advisory Board, NRC, and numerous other committees.

James E. Shepherd (electronic engineering), 1910; B.S., 1932, and M.S., 1933 (electrical engineering and physics), University of Missouri; M.S., 1935, and D.Sc., 1940 (communication engineering), Harvard University. Consultant in computer applications since 1972. Previously with Harvard University, Sperry Gyroscope Company, and Sperry Rand Corporation. Honor Award for Distinguished Service in Engineering, University of Missouri, 1962; Boards of Directors, IRE, 1948-50, Massachusetts Engineers Council, 1975-77, Sigma Xi, 1976, Institute of Electrical and Electronics Engineers, 1978-79, and ELECTRO Technical Conferences, 1978-80; Regional Activities Board and United States Activities Board, IEEE, 1978-79. Long-Range Planning Committee and Region 1 Committee, IEEE.

Section N—Medical Sciences

Chairperson-Elect (one to be elected).

Leah M. Lowenstein
Helen M. Tepperman

Leah M. Lowenstein (medicine), 1930; B.S., 1950, and M.D., 1954, University of Wisconsin; D.Phil., Oxford University, 1958. With Boston University since 1968; professor of medicine and biochemistry since 1977; associate dean, School of Medicine, since 1979. Previously with Tufts University School of Medicine and Harvard Medical School; visiting scientist, University of Pennsylvania Medical School, 1966-67. Medical advisor, Office of the Assistant Secretary of Health and Committee on Domestic Policy for Industrial Innovation, DHEW; Special Committee of the Coordinating Council on Medical Education; First-Level Review Committee, Artificial Kidney-Chronic Uremia Program, and General Medicine B Study Section, NIH; Executive Committee, Renal Council, American Heart Association; Editorial Board, *American Journal of Medicine*; associate editor, *ASAIO: Journal of the American Society for Artificial Internal Organs*. AAAS activities: member-at-large of the Section Committee, Section on Medical Sciences (N), 1974-77; secretary, Section N, 1978-.

Helen M. Tepperman (physiological chemistry), 1917; A.B., Mount Holyoke College, 1938; Ph.D., Yale University, 1942. With State University of New York Upstate Medical Center, Syracuse, since 1946; professor of

pharmacology since 1972. Previously with Memorial Hospital, New York City, Yale School of Medicine, and Army Chemical Center, Edgewood Arsenal. Research Award (jointly with Jay Tepperman), Syracuse Chapter, Sigma Xi, 1961. Editorial Board, *Endocrinology*; chair, Leadership Committee, Endocrine Society Women's Caucus.

Member-at-Large of the Section Committee (one to be elected).

Robert M. Berne
Doris H. Merritt

Robert M. Berne (cardiovascular physiology), 1918; B. A., University of North Carolina, 1939; M.D., Harvard University, 1943. Chairman and Charles Slaughter professor of physiology, University of Virginia School of Medicine, since 1966. Previously with Western Reserve University, University of Amsterdam, and Royal College of Surgeons, London. Member, Institute of Medicine, NAS; Carl J. Wiggers Award, 1975; Teaching Award, Association of Chairmen of Departments of Physiology, 1976; Research Achievement Award and Award of Merit, American Heart Association, 1979; president, Science Council of Cleveland Area Heart Society, 1964-65, Association of Chairmen of Departments of Physiology, 1970-71, and American Physiological Society, 1972-73; editor, *Circulation Research*, 1970-75; chairman, Landis Award Committee, 1977-78; chairman, Council of Academic Societies, American Association of Medical Colleges, 1977-78. Board of Directors, AHA; editor, volume I, *The Heart*, APS Handbook Series of the Cardiovascular System; Scientific Advisory Board, Alfred I. duPont Institute; Administrative Board, Council of Academic Societies, AAMC; Finance, Publications, and Perkins Memorial Award Committees, APS.

Doris H. Merritt (medicine), 1923; B.A., Hunter College, 1944; M.D., George Washington University, 1952. Special assistant to the director, National Institutes of Health, since 1978. Previously with Duke University School of Medicine, NIH Cardiovascular and General Medicine Study Sections, and Indiana University. Hunter College Alumni Hall of Fame, 1975; chairman, Consortium for Urban Education, Indianapolis, 1971-75; director, Indianapolis Comprehensive Sickle Cell Center, 1973-77; ACE-AAMC Joint Subcommittee on Impact of Federal Funds on Institutions of Higher Education, President's Biomedical Research Panel Report, 1975-76; Assembly of Life Sciences Committee on Maternal and Child Health Research, NAS-NRC, 1975-76; Board of Directors, Indiana Science Education Fund, 1977-78; Executive Committee, National Council of University Research Administrators, 1978-79. Life Sciences D Panel, Council for International Exchange of Scholars; Board of Regents, National Library of Medicine.

Members of the Electorate Nominating Committee (two to be elected).

Lester Breslow
William P. Deiss, Jr.
Philip Felig
Jules Hirsch

Lester Breslow (epidemiology), 1915; B.A., 1935, M.D., 1938, and M.P.H., 1941, University of Minnesota. With University of California, Los Angeles, since 1968; dean, School of Public Health, since 1972. Previously with California Department of Public Health. Sip-

py Award, Western Branch, American Public Health Association, 1953; Lasker Award, 1960; Outstanding Achievement Award, Regents of University of Minnesota, 1970; Distinguished Service Award, American College of Preventive Medicine, 1976; Sedgwick Memorial Medal for Distinguished Service in Public Health, APHA, 1977; president, APHA, 1968-69; chairman, Executive Committee, 1964-68, and president, 1967-68, International Epidemiological Association; president, Association of Schools of Public Health, 1973-75. Council and chairman, Division of Health Promotion and Disease Prevention Advisory Committee, Institute of Medicine, NAS; chairman, National Committee on Vital and Health Statistics; Executive Committee, Community Cancer Control/Los Angeles; editor, *Annual Review of Public Health*; editorial adviser, *Journal of Chronic Diseases and Preventive Medicine*.

William P. Deiss, Jr. (internal medicine), 1923; B.S., University of Notre Dame, 1943; M.D., University of Illinois, 1945. Professor and chairman, Department of Medicine, University of Texas Medical Branch, since 1968. Previously with University of Wisconsin, Duke University, and Indiana University. Member, American Board of Internal Medicine.

Philip Felig (medicine, endocrinology), 1936; A.B., Princeton University, 1957; M.D., Yale University, 1961. Samuel Bard professor and chairman, Department of Medicine, College of Physicians and Surgeons, Columbia University, beginning in 1980. Previously with Yale University School of Medicine. Alvarenga Prize, Swedish Medical Association, 1975; Lilly Prize, American Diabetes Association, 1976. National Council, American Society of Clinical Investigation; National Board of Directors, ADA; Metabolism Study Section, NIH; Medical Advisory Board, Juvenile Diabetes Foundation; Editorial Boards, *American Journal of Physiology*, *Archives of Internal Medicine*, and *Annals of Internal Medicine*; associate editor, *American Journal of Medicine*.

Jules Hirsch (clinical investigation), 1927; M.D., University of Texas, 1948. With Rockefeller University since 1956; professor and senior physician since 1967. Previously with Duke University Hospital, New York College of Medicine, and Rockefeller Institute for Medical Research. Editor, *Journal of Nutrition*, 1962-67; Board of Directors, Scientists' Committee for Public Information, 1962-69; Advisory Council, National Association for Mental Health, 1965-66; Executive Committee, Council on Arteriosclerosis, American Heart Association, 1966-68; Nutrition Study Section, NIH, 1968-72; Council, American Psychosomatic Society, 1968-71, Society for Experimental Biology and Medicine, 1972, and American Society for Clinical Nutrition, 1972-74; Advisory Boards, *Journal of Lipid Research*, 1969-74, and Department of Mental Health and Mental Retardation Services, 1971-75; president, ASCN, 1978. Editorial Boards, *Medical Letter*, *Psychosomatic Medicine*, and *International Journal of Obesity*.

Section O—Agriculture

Chairperson-Elect (one to be elected).

Duane Acker
Thomas Ronningen

Duane Acker (animal science), 1931; B.S., 1952, and M.S., 1953, Iowa State University;

Ph.D., Oklahoma State University, 1957. President, Kansas State University, since 1975. Previously with Oklahoma State University, Iowa State University, South Dakota State University, and University of Nebraska. Federal Land Bank Golden Anniversary Medal for contributions to agriculture, 1967; Distinguished Achievement Award, Iowa State University Alumni Association, 1979; Teaching Committee, American Society of Animal Science, 1965-66; co-chairman, Task Force on Quality of the Environment for USDA and U.S. Experiment Stations, 1967-68; chairman, Deans of Agriculture, 1969-70, and Division of Agriculture, 1970-71, National Association of State University and Land-Grant Colleges; international president, Gamma Sigma Delta, 1974-75. Board of Governors, Agricultural Hall of Fame; Board of Trustees, University of Mid-America; trustee, Kansas 4-H Foundation and Kansas Council on Economic Education; Council, Mid-America State Universities Association.

Thomas Ronningen (agronomy), 1918; B.S., University of Wisconsin, Riner Falls, 1939; M.S., 1947, and Ph.D., 1949, University of Wisconsin, Madison. Director-at-large, University of Maryland, since 1979. Previously with U.S. Department of Agriculture; Centennial visiting professor, University of Wisconsin, 1974. National Honor Award, 1968; president, Northeastern Branch, American Society of Agronomy, 1956-57, Organization of Professional Employees, USDA, 1964-65, and Federal Executive Institute, Alumni Association, 1973. Budget and Finance Committee, ASA; National Forestry Research Steering Committee; Fornard Planning Committee for Home Economics Research; National Agricultural Pesticide Impact Assessment Committee. AAAS activities: Electorate Nominating Committee, Section on Agriculture (O), 1976-78, chairman, 1977; member-at-large of the Section Committee, Section O, 1980-83.

Member-at-Large of the Section Committee (one to be elected).

Thomas B. King

Walter I. Thomas

Thomas B. King (animal management and nutrition), 1926; B.S., 1949, and M.S., 1950, Pennsylvania State University; Ph.D., University of Illinois, 1963. With Pennsylvania State University since 1951; associate dean, College of Agriculture, since 1971. Previously with Alfred University. President, American Society of Animal Science, 1976-77. Council for Agricultural Science and Technology; Pennsylvania State Planning Board; Pennsylvania Conservation Commission; Pennsylvania Farm Show Commission; Pennsylvania Land Use Coalition; National 4-H Council.

Walter I. Thomas (agronomy), 1919; B.S., 1949, M.S., 1953, and Ph.D., 1955, Iowa State University. Administrator, Cooperative Research, Science and Education Administration, USDA, since 1979. Previously with U.S. Marine Corps, Iowa State University, and Pennsylvania State University. Curriculum Subcommittee, 1962-65, Budget and Finance Committee, 1965-69 (chairman, 1969), and Board of Directors, 1968-71, American Society of Agronomy. Joint Council on Food and Agriculture and chairman of its Steering Committee on Planning and Coordination; Board of Directors and Committee on Personnel, Council for Agricultural and Science Technology; Advisory Board, National Soy-

bean Crop Improvement Council; Board of Directors, North Central Rural Development Center; McIntire-Stennis Forestry Board; Experiment Station Committee on Organization and Policy; Agricultural Research Institute, National Industry-State Agricultural Research Council. AAAS activities: Electorate Nominating Committee, Section on Agriculture, 1978-80.

Members of the Electorate Nominating Committee (two to be elected).

Estel H. Cobb

Kenneth J. Frey

E. C. A. Runge

Paul W. Santelmann

Estel H. Cobb (animal breeding and genetics), 1925; B.S., Oklahoma State University, 1948; M.S., 1952, and Ph.D., 1958, Iowa State University. Regional research coordinator and animal geneticist, Cooperative Research, Science and Education Administration, USDA, since 1969. Previously with New Mexico State University, Pennsylvania State University, and University of Hawaii; acting associate director, Nebraska Agricultural Experiment Station, University of Nebraska, 1971-72. USDA Certificate of Merit, 1971 and 1978; director, Western Section, American Society of Animal Science, 1964; Council, American Genetics Association, 1977-79.

Kenneth J. Frey (plant breeding), 1923; B.S., 1944, and M.S., 1945, Michigan State University; Ph.D., Iowa State University, 1948. With Iowa State University since 1953; C. F. Curtiss distinguished professor in agriculture since 1970. Previously with Michigan State University; visiting professor, University of Minnesota, 1967, University of Göttingen, 1972, University of Novi Sad, 1977, and University of Alexandria (Egypt), 1977. Fulbright fellow, 1968 and 1977; MASUA honor lecturer, 1979-80; First Mississippi Foundation Award for Excellence in Research. Board of Directors, Executive Committee, and president-elect, Crop Science Society of America; Board of Directors and Executive Committee, American Society of Agronomy; Council for International Exchange of Scholars; Editorial Boards, *Zeitschrift für Pflanzenzüchtung* and *Egyptian Journal of Genetics and Cytology*.

E. C. A. Runge (agronomy), 1933; B.S., 1955, and M.S., 1957, University of Illinois; Ph.D., Iowa State University, 1963. Professor and chairman, Department of Agronomy, University of Missouri, since 1973. Previously with Broad Ripple High School, Iowa State University, and University of Illinois. Senior postdoctoral fellow, Lincoln College, New Zealand, 1970-71; *Crops and Soils Magazine* Award for Excellence in Agricultural Journalism, 1971; Group Achievement Award, NASA and L. B. Johnson Space Center, 1979. Cosponsoring Symposia and Joint Meetings Committee, Soil Science Society of America; Location of Meetings, Nomination of Officers, and Fellows Committees, American Society of Agronomy.

Paul W. Santelmann (agronomy), 1926; B.S., University of Maryland, 1950; M.S., Michigan State University, 1952; Ph.D., Ohio State University, 1954. With Oklahoma State University since 1962; professor and head, Agronomy Department, since 1977. Previously with University of Maryland. Outstanding Teacher Award, Weed Science Society of America, 1972; honor lecturer, Mid-America State Universities Association, 1976-77; Herbicides Study Group, Hazardous

Materials Advisory Committee, Environmental Protection Agency, 1972-73; Study of Problems of Pest Control Team, Environmental Studies Board, NAS, 1973-74; president, Southern Weed Science Society, 1975-76, and WSSA, 1978; Board of Directors, Council for Agriculture and Science Technology, 1975-78. Board of Directors, American Registry of Certified Professionals in Agronomy Crops and Soils; Executive Committee, Intersociety Consortium for Plant Protection; Southern Regional Soils Research Committee; Governing Board, American Institute of Biological Sciences.

Section P-Industrial Science

Chairperson-Elect (one to be elected).

Ward J. Haas

John F. Socolofsky

Ward J. Haas (research and development management), 1921; B.S., 1943, and Ph.D., 1949, Massachusetts Institute of Technology. Vice president, Research and Development, Chesebrough-Pond's, Inc., since 1975. Previously with E. I. duPont de Nemours & Company, U.S. Foreign Service, Pfizer, Inc., University of Missouri, Warner-Lambert, and S. C. Johnson & Son, Inc. Visiting Committees, MIT, 1956-62 and 1973-75, Drexel University, 1969-72, and California Institute of Technology, 1973-75; Board of Trustees, Interuniversity Communications Council, 1967-68. Boards of Directors, Industrial Research Institute and MIT Alumni Association; Advisory Committee, Association for the Advancement of Invention and Innovation; R & D Council, American Management Association. AAAS activities: Electorate Nominating Committee, Section on Industrial Science, 1980-82.

John F. Socolofsky (petroleum research), 1917; B.S., University of Kansas, 1941. With Mobil Oil Corporation since 1941; manager, Products Research and Technical Service, Mobil Research and Development Corporation, since 1971. Certificate of Appreciation, Society of Automotive Engineers, 1978; past member of various technical committees, American Petroleum Institute, Coordinating Research Council, and SAE. Chairman, Passenger Car and Light-Duty Vehicle Fuel Economy Measurements Committee, SAE; Advisory Committee for the U.S. Department of Transportation Truck and Bus Fuel Economy Study, SAE; vice chairman, Board, SAE Lubricants Review Institute; Tribology Data Panel, ASME-RCL Advisory Board on Energy Conservation through Tribology. AAAS activities: Electorate Nominating Committee, Section on Industrial Science, 1979-81.

Member-at-Large of the Section Committee (one to be elected).

Walter S. Baer

Joel D. Goldhar

Walter S. Baer (physics, energy policy, communications policy), 1937; B.S., California Institute of Technology, 1959; Ph.D., University of Wisconsin, 1964. Senior physical scientist, Rand Corporation, since 1974; director, Energy Policy Program, since 1978. Previously with Bell Telephone Laboratories, Office of Science and Technology, Executive Office of the President, and Laird Systems, Inc. Award for Excellence in Teaching, University of Wisconsin, 1960; Preceptor Award,

Broadcast Industry Conference, 1974; Computer Science and Engineering Board, NAS, 1969-72; Cable Television Advisory Board, Federal Communications Commission, 1972-73; Selection Committee for Congressional Fellows, American Physical Society, 1976-77. Advisory Council, Aspen Institute Program on Communications and Society; Editorial Board, *Telecommunications Policy*; Environmental and Resource Management Advisory Committee, University of Southern California; Mayor's Advisory Committee on Energy Use Management, Los Angeles. AAAS activities: Council, 1972-73; member-at-large of the Section Committee, Section on Industrial Science, 1972-75.

Joel D. Goldhar (science policy), 1942; B.Ch.E., Rensselaer Polytechnic Institute, 1963; M.B.A., Harvard Business School, 1965; D.B.A., George Washington University, 1968. Executive secretary, Committee on Computer-Aided Manufacturing, since 1978, and executive director, Manufacturing Studies Board, beginning in 1980, National Research Council/Assembly of Engineering. Previously with Northeastern University, Harvard Business School, U.S. Army, Rensselaer Polytechnic Institute of Connecticut, and National Science Foundation; adjunct appointments at several universities; visiting professor, Clark University. Chairman, Manufacturing Management Council, Society of Manufacturing Engineers; Board of Trustees, Women's Equity Action League; member, Department of Commerce Industrial Technology Delegation of the People's Republic of China; Editorial Board, *Knowledge*. AAAS activities: Section Committee, Section on Industrial Science, 1974-.

Members of the Electorate Nominating Committee (two to be elected).

D. P. Heath
David A. Katcher
Catherine King
Charles S. Tuesday

D. P. Heath (chemical engineering), 1919; B.S., Purdue University, 1940. Corporate manager, Environmental Affairs, Mobil Oil Corporation. Vice chairman, General Committee on Environmental Affairs, American Petroleum Institute; chairman, IPIECA.

David A. Katcher (science policy), 1915; B.A., University of Wisconsin, 1936. Consultant, Chevy Chase, Maryland, beginning in 1980. Previously with Naval Ordnance Laboratory, U.S. Army, *Physics Today* (founding editor), Johns Hopkins University, Weapons Systems Evaluation Group, Institute for Defense Analyses, Arthur D. Little, Inc., National Advisory Committee for Oceans and Atmosphere, Office of Science and Technology Policy (senior policy analyst), and U.S. Department of State (special assistant for science and technology to Undersecretary of State). Four prizes and Honorable Mentions while with *Physics Today*; three special achievement awards while with NACOA. Past member of several committees, Council member, treasurer, and associate editor, Operations Research Society of America.

Catherine King (toxicology), 1953; B.S., 1977, and M.S., 1980, Louisiana State University. With Ethyl Corporation since 1977; hygiene chemist, Toxicology and Industrial Hygiene Department, since 1979. Historian, Iota Sigma Pi, 1978-79. President, Iota Sigma Pi; Ethyl Management Club.

Charles S. Tuesday (physical chemistry),

1927; A.B., Hamilton College, 1951; M.A. and Ph.D., 1955, Princeton University. With General Motors Research Laboratories since 1955; technical director since 1974. Previously with St. Regis Paper Corporation and Princeton University. McCay fellow, Princeton University, 1953-54. Air Pollution Research Advisory Committee, Coordinating Research Council; National Material Advisory Board Committee on Materials Substitution Methodology; Editorial Advisory Board, *Environmental Science and Technology*, American Chemical Society.

Section Q—Education

Council Delegate (one to be elected).

Marjorie Gardner
David H. Ost

Marjorie Gardner (science education, chemistry), 1923; B.S., Utah State University, 1946; M.A., 1958, and Ph.D., 1960, Ohio State University. Director, Division of Science Education Resources Improvement, National Science Foundation; professor, University of Maryland. Previously with high schools in Utah, Nevada, and Ohio; Ohio State University; and National Science Teachers Association. Connecticut Visiting Scientist Award and Ohaus Award, 1972; Fulbright Award (visiting professor, Australia) and Robert H. Carleton Award, 1973. Conference organizer, IUPAC 6th International Conference on Chemical Education; president-elect and Board, Fulbright Alumni Association; Ad Hoc Committee on Long-Range Planning, NSTA; Committee on High School/College Interaction and International Activities Committee, American Chemical Society; co-planner, International Center for Chemical Education; UNESCO author, *Teaching School Chemistry*. AAAS activities: member-at-large of the Section Committee, Section on Education (Q), 1967-70, 1975-78; Council, 1967-70, 1979; Commission on Science Education, 1973-74; chairperson, Section Q, 1978.

David H. Ost (biology, science education), 1940; B.A., Augsburg College, 1962; M.S., University of Michigan, 1965; Ph.D., University of Iowa, 1970. With California State College, Bakersfield, since 1971; professor of biology since 1975; chair, Department of Biology, since 1977. Former high school teacher; previously with Wisconsin State University, Platteville, Carthage College, and AAAS; director, California State University and Colleges System-wide Center for Professional Development, 1975-77. Vice president, 1974-75, and Board of Directors, 1975-77, National Association of Biology Teachers; president, Association for the Education of Teachers in Science, 1977-78; Board of Directors, National Association of Science Teachers, 1977-78. Advisory Board, California State University and Colleges Energy Consortium. AAAS activities: member-at-large of the Section Committee, Section on Education, 1977-80; Council, 1978-80.

Chairperson-Elect (one to be elected).

Elaine W. Ledbetter
Wayne W. Welch

Elaine W. Ledbetter (chemical education), 1917; B.S., University of Oklahoma, 1939; M.Ed., North Texas State University, 1954. Chemistry teacher, Pampa High School, Pam-

pa, Texas, since 1953; chairperson, Science Department. Previously with Blackwell High School and Shidler-Webb City High School (Oklahoma) and Pampa Junior High School. Outstanding Chemistry Teacher in Texas, Texas Chemical Council and Manufacturing Chemists Association, 1965; Texas Teacher of the Year, 1966; James B. Conant Award, Fifth District, American Chemical Society, 1967; STAR Award, 1969, and Citation for Distinguished Service to Science Education, 1980, National Science Teachers Association; Catalyst Award, Manufacturing Chemists Association, and Ohaus Award, 1977; president, Science Teachers Association of Texas, 1959-61; International Science Fair Advisory Board, 1960-68; secretary, 1962-64, and president, 1972-73, NSTA; NSTA-NASA Committee to Design the Student Skylab Program, 1972; College Board Committee to Write the Chemistry Achievement Tests, 1970-76; Advisory Committee on Science Education, NSF, 1976-79. Member of numerous NSTA committees, 1962-.

Wayne W. Welch (educational psychology), 1934; B.S., University of Wisconsin, LaCrosse, 1956; M.S., University of Pennsylvania, 1960; M.S., Purdue University, 1963; Ph.D., University of Wisconsin, 1966. With University of Minnesota since 1969; professor since 1975. Previously with Harvard University. Executive Board, 1970-71, and president, 1973-75, National Association for Research in Science Teaching; Fulbright-Hays lecturer, Israel, 1979. ERIC-SMEAC Advisory Board; evaluation consultant, Northwest Area Foundation, Bush Foundation, St. Mary's Junior College, and Minnesota Education Computer Consortium; Advisory Committee, BSCS Center for Educational Research and Evaluation. AAAS activities: member-at-large of the Section Committee, Section on Education (Q), and Council, 1970-73; Electorate Nominating Committee, Section Q, 1974-76; Section Committee, Section Q, 1976-79.

Member-at-Large of the Section Committee (one to be elected).

Michael R. Cohen
Burton E. Voss

Michael R. Cohen (science education), 1938; B.S., Brooklyn College, 1960; M.A., Columbia University, 1963; Ph.D., Cornell University, 1968. Associate professor of education, Indiana University, since 1968. Previously with Junior High School 203 (Brooklyn, N.Y.) and Cornell University; visiting professor, Hebrew University, 1975-76. Program chairman, Midwest Regional Meeting, Association for the Education of Teachers in Science, 1974; chairman, Short Courses/Credit Courses Committee, NSTA Central Area Convention, 1975. Sourcebook¹ editor, Council for Elementary Science International; Board, Environmental Education Association of Indiana.

Burton E. Voss (science education), 1927; B.S., Central College, 1949; M.S., 1953, and Ph.D., 1958, University of Iowa. Professor of science education, University of Michigan, since 1963. Previously with Fulton High School, U.S. Army, University of Iowa, and Pennsylvania State University. President, National Association of Biology Teachers, 1968, Michigan Science Teachers Association, 1970, and School Science and Mathematics Association, 1975. Board of Directors, National Science Teachers Association; pres-

ident, Michigan Energy Educators Forum. AAAS activities: Council, 1966-68; Section Committee, Section on Education (Q), 1966-68, 1976-; Electorate Nominating Committee, Section Q, 1977-79, chairman, 1979.

Members of the Electorate Nominating Committee (two to be elected).

Gerald H. Krockover
John F. Schaff
Michael Szabo
Thomas G. Teates

Gerald H. Krockover (science education), 1942; B.A., 1964, M.A., 1966, and Ph.D., 1970, University of Iowa. With Purdue University since 1970; professor of education and geosciences beginning in 1980. Previously with schools in Iowa; visiting scholar, University of Texas, Austin, 1976. Outstanding Science Educator, Association for the Education of Teachers in Science, 1973; Outstanding Teacher Award, Eta Chapter, Kappa Delta Pi, 1973 and 1980. Editorial Board, *Journal of Research in Science Teaching*; departmental editor and special issue editor, *School Science and Mathematics*; Publications Committee, School Science and Mathematics Association; Research Grants Activities Committee, National Association for Research in Science Teaching.

John F. Schaff (science education), 1931; B.S., Illinois State University, 1953; M.S., Kansas State University, 1955; Ed.D., Florida State University, 1968. Professor of science education and associate dean, College of Education, University of Toledo, since 1972. Previously with high schools in Illinois, North Florida Junior College, Florida State University, and Syracuse University; visiting professor of chemistry, State University of New York, Geneseo, University of Wyoming, and Owens Technical College; visiting scholar, Indiana University. Director, Placement Program, 1969-71, and Annual Convention Program Committee, 1973-76, National Association for Research in Science Teaching; regional chairman, NASA-NSTA Skylab Student Project, 1972-73; president, Association for the Education of Teachers in Science, 1978-79. Board of Directors, National Science Teachers Association; Executive Committee, Board of Directors, AETS; chairman, Executive Committee, Toledo Section, American Chemical Society; Membership Committee, University of Toledo Chapter, Sigma Xi.

Michael Szabo (science and computer-based education), 1938; B.S., Taylor University, 1962; M.S., 1967, and Ph.D., 1969, Purdue University. With Pennsylvania State University since 1969; associate professor and director, Instruction Support Center, since 1978. Previously teacher of science and mathematics, Indiana and New Jersey.

Thomas G. Teates (science education), 1934; B.S., Lebanon Valley College, 1957; M.S., University of Delaware, 1959; Ph.D., Florida State University, 1970. With Virginia Polytechnic Institute and State University since 1970; associate professor since 1973; division director, Curriculum and Instruction, since 1979. Previously with National College (Kansas City, Missouri) and Longwood College; staff member, Chemical Board Approach Project, 1962. Secretary, 1973, and president, 1977, Virginia Science Supervisor's Association; president, Mid-Atlantic Region, 1974, and membership coordinator, 1975-77, Association for the Education of Teachers in Science; Membership Com-

mittee, National Association for Research in Science Teaching, 1975-76. Executive Committee and chairman, Long-Range Needs Committee, Virginia Science Supervisor's Association.

Section R-Dentistry

Council Delegate (one to be elected).

Robert J. Fitzgerald
Charles F. Schachtele

Robert J. Fitzgerald (oral microbiology, gnotobiotics), 1918; B.S., Fordham University, 1939; M.S., Virginia Polytechnic Institute, 1941; Ph.D., Duke University, 1948. Chief, Dental Research Unit, Veterans Administration Medical Center, Miami, and professor of microbiology, University of Miami School of Medicine, since 1969. Previously with American Cyanamid Company and U.S. Public Health Service. Research Award, Chicago Dental Society, 1960; Albert Joachim Research Award, Federation Dentaire Internationale, 1962; Dental Caries Research Award, International Association for Dental Research, 1977; Federal Employee of the Year Award, Miami, 1977; Board of Directors, Association for Gnotobiotics, 1967-69; councilor, 1977, and chairman, 1978, Cariology Group, IADR. Advisory Committee, Institute of Dental Research, University of Alabama; consultant/lecturer, U.S. Navy Dental Corps; Intramural Advisory Council, National Institute of Dental Research; VA Regional Advisory Group. AAAS activities: Council, 1978-80.

Charles F. Schachtele (microbiology), 1942; B.A., Macalester College, 1963; M.S., 1965, and Ph.D., 1968, University of Minnesota. With University of Minnesota since 1968; professor of dentistry and microbiology since 1978. U.S. Public Health Service career development award, 1971-76; Basic Research in Oral Science Award, International Association for Dental Research, 1977; president, 1975-76, and councilor, 1977-80, Minnesota Section, and president, Microbiology and Immunology Group, 1977-78, American Association for Dental Research. IADR International Science Awards Subcommittee for Oral Science Research Award; Editorial Board, *Infection and Immunity*; Advisory Editorial Board, *Journal of Dental Research*; Oral Biology and Medicine Study Section.

Chairperson-Elect (one to be elected).

Clifton O. Dummett
Paul Goldhaber

Clifton O. Dummett (dentistry), 1919; B.S., Roosevelt University, 1941; D.D.S., 1941, and M.Sc.D., 1942, Northwestern University; M.P.H., University of Michigan, 1947. Professor of dentistry, University of Southern California, since 1966. Previously with Meharry Medical College, Veterans Administration Hospital, Tuskegee, U.S. Air Force, and Veterans Administration Research Hospital, Chicago; Roy Roberts distinguished visiting professor, University of Missouri, Kansas City, 1971. William J. Gies Editorial Award, 1962; Triennial Award, National Dental Association, 1964; Fones Award, 1976; Distinguished Service Award, American Association of Dental Editors; president, International Association for Dental Research, 1969-70, AADE, 1975, and Los Angeles Dental Society, 1977; President's Committee,

NHI, 1977. Member, Institute of Medicine, NAS; trustee, American Fund for Dental Health; Program Advisory Committee, National Institute for Dental Research; Advisory Committee, SHEP, National Center for Health Education; Board of Consultants, Quintessence International. AAAS activities: chairperson, Section on Dentistry, 1975.

Paul Goldhaber (periodontology), 1924; D.D.S., New York University, 1949; B.S., City College of New York, 1954. With Harvard School of Dental Medicine since 1955; professor of periodontology since 1966; dean since 1968. Previously with Sloan-Kettering Institute for Cancer Research. U.S. Public Health Service senior research fellow, 1956-61; USPHS Research Career Development Award, 1961-64 and 1964-66; Alumni Research Award Medal, Columbia University, 1966; New York University Alumni Association Award; Award for Basic Research in Periodontal Disease, International Association for Dental Research; Tissue and Organ Biology Cluster, President's Panel on Biomedical Research, 1975. Council on Education, American Society of Law and Medicine; Panel on Clinical Sciences, NRC; Dental Research Committee, Massachusetts Dental Society; Accreditation Review Committee, American Dental Association; Scientific Review Board, Joslin Diabetes Research and Training Center, Joslin Diabetes Foundation, Inc. AAAS activities: Section Committee, Section on Dentistry (R), 1969-70; member-at-large of the Section Committee, Section R, and Council, 1968-71.

Member-at-Large of the Section Committee (one to be elected).

Wallace D. Armstrong
Burton L. Shapiro

Wallace D. Armstrong (biochemistry), 1905; Ph.D., 1933, and M.D., 1937, University of Minnesota. With University of Minnesota since 1929; regents' professor of biochemistry since 1974. Previously with the Texas Company. Commonwealth Fund fellow, 1939 and 1960; William J. Gies Award, American College of Dentists, 1966; Biological Mineralization Award, 1966, and H. Trendley Dean Award, 1967, International Association for Dental Research; Fauchard Medal, Pierre Fauchard Academy, 1976; president, IADR, 1945-46; chairman, Macy Foundation Conference on Metabolic Interrelations, 1949-53, and Gordon Research Conference on Bones and Teeth, 1959. Consultant, National Institute of Dental Research. AAAS activities: Section Committees, Section on Chemistry, 1949-53, Section on Medical Sciences, 1949-53, 1977-, and Section on Dentistry (R), 1972-73; Council, 1949-53, 1972-73; Electorate Nominating Committee, Section R, 1978-80.

Burton L. Shapiro (oral biology), 1934; D.D.S., New York University, 1958; M.S., 1962, and Ph.D., 1966, University of Minnesota. With University of Minnesota since 1961; chairman, Department of Oral Biology, since 1968; professor since 1970. American Cancer Society advanced fellow, 1965-68; counselor, International Association for Dental Research, 1969-72; president, Craniofacial Biology Society, 1973; Advisory Editorial Board, *Journal of Dental Research*, 1977. Board of Directors, Minnesota Chapter, Cystic Fibrosis Research Foundation; Advisory Council, Amherst H. Wilder Foundation; Executive Committee, Editorial Board, *Research* (University of Minnesota).

Members of the Electorate Nominating Committee (two to be elected).

James K. Avery
Lois K. Cohen
Jerry D. Niswander
Sigurd P. Ramfjord

James K. Avery (dentistry), 1921; D.D.S., University of Kansas City, 1945; Ph.D., University of Rochester, 1952. With University of Michigan since 1954; currently professor, School of Dentistry, and director, Dental Research Institute. President, International Association for Dental Research, 1974-75. Consultant, Council on Commission on Accreditation, American Dental Association. AAAS activities: chairperson, Section on Dentistry, 1976.

Lois K. Cohen (sociology), 1938; B.A., University of Pennsylvania, 1960; M.S., 1961, and Ph.D., 1963, Purdue University. Special assistant to the director, National Institute of Dental Research, since 1976. Previously with Purdue University and Division of Dental Health, U.S. Public Health Service; visiting lecturer, Howard University, 1964. Equal Employment Opportunity Special Achievement Award, Bureau of Health Manpower, DHEW, 1976; president, Behavioral Scientists in Dental Research, 1971-72; Board of Directors, 1976-77, and Committee on Committees, 1977-78, International Association for Dental Research; chairman, Membership Committee, American Association for Dental Research, 1979-80. Nominating Committees, AADR and Medical Sociology Section, American Sociological Association; counselor, IADR, and chairman, International Relations Committee. AAAS activities: Section Committee, Section on Dentistry (R), and Council, 1971-72; member-at-large of the Section Committee, Section R, 1974-75.

Jerry D. Niswander (dentistry), 1930; D.D.S., 1955, and M.S., 1962, University of Michigan. With National Institute of Dental Research since 1957; health science administrator since 1976. Previous positions with U.S. Public Health Service and National Institutes of Health. Craniofacial Anomalies Program Branch-Extramural Programs, NIDR.

Sigurd P. Ramfjord (dentistry, periodontics), 1911; L.D.S., University of Oslo, 1934; M.S., 1948, and Ph.D., 1951, University of Michigan. With University of Michigan since 1950; professor since 1958; chairman, Department of Periodontics, since 1962. Award for Basic Research in Periodontal Disease, International Association for Dental Research, 1968; Award for Leadership in Periodontology, Tufts University, 1968; William J. Gies Award, 1971; Gold Medal Award, American Academy of Periodontology, 1973; Gold Medal, International Congress of Ribeirao Preto, Brazil, 1974; Orban Memorial Award, 1979; Distinguished Faculty Award, University of Michigan, 1979; president, AAP, 1962-63; director, 1968-74, and chairman, 1972-74, American Board of Periodontology.

Section S-Pharmaceutical Sciences

Council Delegate (one to be elected).

Charles H. Nightingale
Valentino J. Stella

Charles H. Nightingale (pharmacy), 1939; B.S., Fordham University, 1961; M.S., St. John's University, 1966; Ph.D., State Univer-

sity of New York, Buffalo, 1969. Director, Pharmacy Services, Hartford Hospital (Connecticut), since 1978; concurrently, associate research professor, University of Connecticut. Previously with St. John's University, Mercy Hospital Pharmacy, and SUNY, Buffalo. Lederle Faculty Research Award, 1971; Scientific Review Panel and chairman, Section on Vitamin Therapy, Drug Interactions Project, American Pharmaceutical Association. AAAS activities: Electorate Nominating Committee, Section on Pharmaceutical Sciences, 1977-79, chairperson, 1979.

Valentino J. Stella (pharmaceutical chemistry), 1946; B.Pharm., Victorian College of Pharmacy (Melbourne), 1968; Ph.D., University of Kansas, 1971. With University of Kansas since 1973; associate professor of pharmaceutical chemistry since 1976. Previously with University of Illinois Medical Center. Chairman-elect, local American Chemical Society Section.

Chairperson-Elect (one to be elected).

Louis A. Luzzi
Muriel C. Vincent

Louis A. Luzzi (pharmacy), 1932; B.S., 1959, M.S., 1963, and Ph.D., 1966, University of Rhode Island. Dean, School of Pharmacy, West Virginia University, since 1974. Previously with Abbott Laboratories, University of Rhode Island, and University of Georgia. Resource Development Committee, West Virginia Health Service Association; chairman, West Virginia Commission on Pharmaceuticals and Related Matters; Executive Committee, West Virginia University Medical Center. AAAS activities: member-at-large of the Section Committee, Section on Pharmaceutical Sciences, 1979-82.

Muriel C. Vincent (pharmacy), 1922; B.S., Oregon State University, 1944; M.A., 1951, and Ph.D., 1955, University of Washington. With North Dakota State University since 1956; professor since 1958; assistant dean of pharmacy since 1965. Previously with University of Washington and Oregon State University. North Dakota State University 11th Annual Faculty Lecturer, 1967; Award of Merit, Lambda Kappa Sigma, 1968; chairman, Red River Valley Section, American Chemical Society, 1964; Executive Council, Rho Chi, 1971-73. International Fellowships Committee, American Association of University Women. AAAS activities: member-at-large of the Section Committee, Section on Pharmaceutical Sciences, 1976-80.

Member-at-Large of the Section Committee (one to be elected).

Klaus Florey
Janis J. MacKichan

Klaus Florey (pharmaceutical chemistry), 1919; Ph.D., University of Pennsylvania, 1954. With E. R. Squibb & Sons since 1954; director, Analytical Research and Development, Squibb Institute for Medical Research, since 1959. Previously with Bayer (Germany) and Merck & Company. Chairman, Pharmaceutical Analysis and Control Section, 1967-68, and member-at-large, Executive Committee, 1975-78, Academy of Pharmaceutical Sciences. President, APS; USP Committee on Revisions; World Health Organization Expert Advisory Panel, *International Pharmacopeia*; editor, *Analytical Profiles of Drug Substances*.

Janis J. MacKichan (pharmaceutical sciences), 1951; B.S., 1975, and Pharm.D., 1977, University of Michigan. Assistant professor of pharmacy and pediatrics, Colleges of Pharmacy and Medicine, Ohio State University, since 1979. Previously with State University of New York, Buffalo. Chairman, Editorial Board for Drug Assay Technology, *Drug Intelligence and Clinical Pharmacy*; Ad Hoc Committee for Standardization of Pharmacokinetic Nomenclature, American College of Clinical Pharmacology.

Members of the Electorate Nominating Committee (two to be elected).

Kenneth A. Connors
Arthur H. Goldberg
William G. Kramer
Sidney A. Rosenbluth

Kenneth A. Connors (pharmaceutical analysis), 1932; B.S., University of Connecticut, 1954; M.S., 1957, and Ph.D., 1959, University of Wisconsin. With University of Wisconsin, Madison, since 1962; professor, School of Pharmacy, since 1970. Previously with Illinois Institute of Technology and Northwestern University.

Arthur H. Goldberg (pharmaceutics), 1935; B.S., 1956, and M.S., 1965, Columbia University; Ph.D., University of Michigan, 1968. With Hoffmann-La Roche, Inc., since 1972; technical fellow since 1976. Previously with Columbia University. Program chairman, Basic Pharmaceutics, 1973, and chairman, Education Committee, 1976, Academy of Pharmaceutical Sciences. Program Committee, Sigma Xi.

William G. Kramer (pharmacokinetics, pharmaceutics), 1948; B.S., University of Pittsburgh, 1971; Ph.D., Ohio State University, 1976. Assistant professor, Department of Pharmaceutics, University of Houston, since 1976.

Sidney A. Rosenbluth (pharmacy), 1933; B.Sc., University of Oklahoma, 1955; M.Sc., 1962, and Ph.D., 1966, University of Texas. Professor and associate dean, College of Pharmacy, University of Tennessee, since 1966. Previously with U.S. Air Force, University of Arkansas, and University of Texas; exchange pharmacist, Denmark, 1961; post-doctoral research fellow, Bath University, 1966. Secretary-treasurer, 1971-77, and chairman, 1979-80, Section of Teachers of Pharmaceutics, American Association of Colleges of Pharmacy. President, Rho Chi Society (National); Board of Directors and Professional Education Committee, Memphis and Shelby County Unit, American Cancer Society; Professional Advisory Committee, Northeast Memphis Mental Health Center. AAAS activities: Council, 1978-80.

Section T-Information, Computing, and Communication

Council Delegate (one to be elected).

Belver C. Griffith
Rita G. Lerner

Belver C. Griffith (information science), 1931; B.A., University of Virginia, 1948; M.A., 1953, and Ph.D., 1957, University of Connecticut. Professor, Graduate School of Library and Information Science, Drexel University, since 1969. Previously with Bell Telephone Laboratories, State of New Jersey, and American Psychological Association. Univer-

sity Research Achievement Award, Drexel University, 1980. Committee on Information in the Behavioral Sciences, NAS-NRC, 1968-71; Committee on Publication and Communication, International Union of Psychological Sciences, 1968-70; Committee on the Social Organization of Science, Social Science Research Council, 1968-70; Board of Directors, National Information Retrieval Colloquium, 1972-77; Biomedical Communications Study Section, NIH, 1973-76; Research Advisory Committee, Aslib, London, 1975-76; Awards Committee, American Society for Information Science, 1978-79.

Rita G. Lerner (information science), 1929; A.B., Radcliffe College, 1949; A.M., 1951, and Ph.D., 1956, Columbia University. With American Institute of Physics since 1969; manager, Marketing Services Division, since 1979. Previously with Columbia University. Chairman, Metropolitan New York Chapter, American Society for Information Science, 1974-75; Executive Committee, 1976-77, and chairman, Program Committee, 1978-80, Association of Information Dissemination Centers. Chairman, Finance Committee, ASID-IC; program chairman, Journals Committee, Professional and Scholarly Publishing Division, Association of American Publishers; co-editor, *Encyclopedia of Physics*; Publications Committee and Committee on Intersociety Cooperation, ASIS; editor, Information Science Series, Dowden, Hutchinson & Ross, Inc. AAAS activities: Electorate Nominating Committee, Section on Information, Computing, and Communication, 1978-80.

Chairperson-Elect (one to be elected).

Marilyn C. Bracken
Manfred Kochen

Marilyn C. Bracken (information science, public administration), 1935; B.S., Carnegie-Mellon University, 1957; M.A., 1967, and Ph.D., 1971, American University. Deputy assistant administrator, Program Integration and Information, Office of Pesticides and Toxic Substances, U.S. Environmental Protection Agency, since 1978. Previously with Melpar, Inc., National Bureau of Standards, George Washington University, National Library of Medicine, National Agricultural Library, USDA, Consumer Product Safety Commission, MITRE Corporation, and Energy and Environment Information Systems. Honor Award for Outstanding Contributions to the Consumer Product Safety Commission, 1974; Consumer Product Safety Commission Chairman's Special Citation, 1977; Distinguished Alumna Award, American University, 1978; contributing editor, *Bulletin of the American Society for Information Science*, 1974-79; Council, Environmental Health Sciences Section, Pan American Medical Association, 1975-79; councilor-at-large, ASIS, 1975-78. Chairperson, U.S. Interagency Toxic Substances Data Committee and Special Program on the Control of Chemicals, Organization for Economic Cooperation and Development; chairperson, Toxic Substances Priority Committee, EPA; U.S. chairperson, Project on Identity and Control of Toxic Substances under U.S./Japan Environment Agreement; Toxic Substances Strategy Committee, Council on Environmental Quality. AAAS activities: Electorate Nominating Committee, Section on Information, Computing, and Communication, 1977-79, chairperson, 1977 and 1979.

Manfred Kochen (information science),

1928; B.S., Massachusetts Institute of Technology, 1950; M.A., 1951, and Ph.D., 1955, Columbia University. With University of Michigan since 1965; professor, Mental Health Research Institute, since 1969. Previously with Biot & Arnold, Paul Rosenberg Associates, Columbia University, Institute for Advanced Study, and IBM. Ford fellow, Harvard University, 1955-56; distinguished lecturer, 1968, and Award of Merit, 1974, American Society for Information Science; national lecturer, Association for Computing Machinery. Chairman, Futures Committee, Michigan Chapter, Special Interest Group on Behavioral and Social Sciences, ASIS; Council and Publications and Education Committees, ASIS; associate editor, *Behavioral Science* and *Journal of the Association for Computing Machinery*; managing editor, *Human Systems Management*; president, WISE Fund, Inc. AAAS activities: Electorate Nominating Committee, Section on Information, Computing, and Communication, 1978-80, chairman, 1980.

Member-at-Large of the Section Committee (one to be elected).

Davis B. McCarn
Everett M. Rogers

Davis B. McCarn (computers, information science), 1928; B.A., Haverford College, 1951. Director, Computerized Bibliographic Services, H. W. Wilson Company (Bronx), beginning in 1980. Previously with Defense Intelligence Agency, National Library of Medicine, and Online Information International, Inc. William A. Jump Memorial Award for Outstanding Young Federal Executive, 1963; DHEW Superior Service Award for development of MEDLINE, 1976. MEDLARS II Advisory Committee; Board of Editors, *Online Review*; editor, *Journal of the American Society for Information Science*.

Everett M. Rogers (communication research), 1931; B.S., 1949, M.S., 1955, and Ph.D., 1957, Iowa State University. Professor of communications, Institute for Communication Research, Stanford University, since 1975. Previously with Ohio State University, Michigan State University, and University of Michigan; Fulbright lecturer, National University of Colombia, 1963-64; distinguished visiting professor, University of Southern California, 1975, and New Mexico State University, 1977. Paul D. Converse Award, American Marketing Association, 1975; member, Rural Health Delegation to China, Committee on Scholarly Communication with the People's Republic of China, NAS, 1978. President, International Communication Association; chairperson, Advisory Committee on the Mass Media and Natural Disasters, NAS; Editorial Boards, *Sage Review Yearbook of Communication Research*, *Communication Abstracts*, *Studies in Family Planning*, *International and Intercultural Communication Annual*, *Social Networks*, *Knowledge: Creation, Diffusion, Utilization*, and *Journal of Communication*.

Members of the Electorate Nominating Committee (two to be elected).

Marcia J. Bates
Toni Carbo Bearman
Colin K. Mick
Simon M. Newman

Marcia J. Bates (information science), 1942; B.A., Pomona College, 1963; M.L.S., 1967,

and Ph.D., 1972, University of California, Berkeley. With University of Washington since 1976; associate professor, School of Librarianship, beginning in 1980. Previously with University of California, Berkeley, and University of Maryland. Special Interest Group Cabinet councilor, 1973-74, and Publications Awards Committee, 1978, American Society for Information Science. Senator, University of Washington Faculty Senate.

Toni Carbo Bearman (information science), 1942; A.B., Brown University, 1969; M.S., 1973, and Ph.D., 1977, Drexel University. Special projects consultant, Institute of Electrical Engineers (London), since 1979. Previously with American Mathematical Society, Brown University, Drexel University, and National Federation of Abstracting and Indexing Services (executive director). CON-version of SERIALS Advisory Committee, 1974-78; Committee on Intersociety Cooperation, American Society for Information Science, 1974-78, chairman, 1976-78; chairman, Delaware Valley Chapter, ASIS, 1976-77; Board of Trustees, Center for Literacy, 1976-78; vice chairman, Committee Z39, and chairman, Subcommittee 1 Program and Planning of Committee Z39, American National Standards Institute, 1977-78. Council and Networking and International Relations Committees, ASIS; Board of Directors, American Society of Indexers; Executive Committee, Association of Information and Dissemination Centers; Editorial Boards, *Serials Librarian*, *Resource Sharing*, and *Library Networks*; treasurer, U.S. National Committee, UNESCO General Information Program; Department of Commerce Technical Advisory Board, Committee on STI Policy. AAAS activities: Section Committee, Section on Information, Computing, and Communication, 1975-79; Council, 1978.

Colin K. Mick (communication research), 1941; B.A., University of Alaska, 1963; M.A., 1969, and Ph.D., 1972, Stanford University. President, Applied Communication Research, since 1974; with Decision Information Services since 1977, vice president and director of research since 1979. Previously with University of Alaska and Stanford University. Chair, Special Interest Group on Technology, Information and Society, American Society for Information Science, 1975-78. SIG Steering Committee, ASIS.

Simon M. Newman (information science), 1906; A.B., B.S., and M.E., Columbia University; M.P.L. and J.D., American University. Consultant in Washington, D.C., since 1961. Previously with U.S. Patent Office. Watson Davis Award, American Society for Information Science, 1977; chairman, Potomac Valley Chapter, 1960, Special Interest Group on Classification Research, 1961, and Constitution and Bylaws Committee, 1974-77, ASIS. Parliamentarian and member, Constitution and Bylaws Committee, ASIS. AAAS activities: Council and Section Committee, Section on Information, Computing, and Communication, 1966-67.

Section U-Statistics

Council Delegate (one to be elected).

Paul Meier
John W. Pratt

Paul Meier (statistics), 1924; B.S., Oberlin College, 1945; M.A., 1947, and Ph.D., 1951, Princeton University. With University of Chi-

cago since 1957; professor of statistics since 1962; Ralph and Mary Otis Isham professor of statistics and of pharmacological and physiological sciences since 1975. Previously with Lehigh University, Princeton University, and Johns Hopkins University; visiting professor, Harvard University, 1975-76. Fellow, American Academy of Arts and Sciences; vice president, American Statistical Association, 1965-67; president, Biometric Society, Eastern North American Region, 1967; past member of various committees, NIH, NAS, NRC, APHA, ASA, VA, and others. Director, Data Quality Control Center for the Persantine-Aspirin Reinfarction Study and Data Audit Center for the International Mexiletine Antiarrhythmia and Coronary Prevention Trial; Operations Committee, VA Heart Valve Replacement Study; Policy and Data Monitoring Board, Multicenter Investigation for Limitation of Infarct Size; Editorial Board, *Journal of Surgical Research*; Committee on National Statistics; Data Monitoring Committee, National Cooperative Dialysis Study, National Institute of Arthritis, Metabolism, and Digestive Diseases. AAAS activities: Electorate Nominating Committee, Section on Statistics, 1975-77.

John W. Pratt (teaching), 1931; A.B., Princeton University, 1952; Ph.D., Stanford University, 1956. With Harvard University since 1957; professor, Business School, since 1966. Previously with University of Chicago; visiting research professor, Kyoto University, 1972-73. Guggenheim fellow, 1971; editor, *Journal of the American Statistical Association*, 1965-69; Council, Institute of Mathematical Statistics, 1970-72; Executive Committee, Social Science Research Council, 1971-76; Census Advisory Committee, American Statistical Association, 1975-76; chairman, Study Group on Environmental Monitoring, NRC, 1975-77; Steering Committee on Analytic Studies, U.S. Environmental Protection Agency, 1975-77. Reviewer, *Mathematical Reviews*. AAAS activities: chairperson, Section on Statistics, 1977; Council, 1978.

Chairperson-Elect (one to be elected).

Yvonne M. M. Bishop
Joan R. Rosenblatt

Yvonne M. M. Bishop (statistics), 1925; B.A., University of London, 1947; M.Sc., 1961, and Ph.D., 1967, Harvard University. Deputy assistant administrator, Energy Data Operations, Energy Information Administration, U.S. Department of Energy, since 1979. Previously with Sidney Farber Cancer Center and Harvard School of Public Health. President, Boston Chapter, 1970-71, and member, Committee on Women, 1973-75, American Statistical Association; associate editor, 1972-75, and president, Eastern North American Region, 1978, Biometric Society; Review Committee, Epidemiology Section, National Institute of Mental Health, 1972-75; consultant, InterAmerican Tropical Tuna Commission, 1977. Publications Committee and Careers Brochure Committee, ASA; Board of Scientific Counselors, National Institute of Environmental Health Sciences. AAAS activities: Electorate Nominating Committee, Section on Statistics, 1974-76.

Joan R. Rosenblatt (statistics), 1926; A.B., Barnard College, 1946; Ph.D., University of North Carolina, 1956. With National Bureau of Standards since 1955; deputy director, Center for Applied Mathematics, since 1978.

Achievement Award in Mathematics, Washington Academy of Sciences, 1966; Federal Woman's Award, 1971; Gold Medal, U.S. Department of Commerce, 1976; program secretary, 1965-68, and Council, 1975-77, Institute of Mathematical Statistics; chairman, Section on Physical and Engineering Sciences, American Statistical Association, 1975. Board of Directors and Committee on Energy Statistics, ASA; Council, Conference Board of the Mathematical Sciences; Education Committee, Society for Industrial and Applied Mathematics; Chemical Division Awards Committee, American Society for Quality Control. AAAS activities: Electorate Nominating Committee, Section on Statistics, 1977-79, chairperson, 1979.

Member-at-Large of the Section Committee (one to be elected).

David V. Hinkley
Peter J. Huber

David V. Hinkley (statistics), 1944; B.Sc., University of Birmingham, 1965; D.I.C., Imperial College, London, 1969; Ph.D., University of London, 1969. With University of Minnesota since 1973; currently chairman and professor of statistics. Previously with Imperial College; visiting assistant professor, Stanford University, 1971-73. Special invited lecturer, Institute of Mathematical Statistics, 1975 and 1980; SRC senior research fellow, U.K., 1978; associate editor, *Journal of the American Statistical Association*, 1972-76, and *Biometrika*, 1976-79; Publications Committee, ASA, 1978-80. Committee on Fellows and Ad Hoc Emergency Committee, IMS; editor, *Annals of Statistics*.

Peter J. Huber (statistics), 1934; Ph.D., Eidgenössische Technische Hochschule, 1961. Professor of statistics, Harvard University, since 1978. Previously with Eidgenössische Technische Hochschule. Council, Bernoulli Society; associate editor, *Zeitschrift für Wahrscheinlichkeitstheorie*.

Members of the Electorate Nominating Committee (two to be elected).

Theodore W. Anderson
Richard E. Barlow
William H. Lawton
Fred C. Leone

Theodore W. Anderson (statistics, econometrics), 1918; B.S., Northwestern University, 1939; M.A., 1942, and Ph.D., 1945, Princeton University. Professor of statistics and economics, Stanford University, since 1967. Previously with Northwestern University, Princeton University, University of Chicago, and Columbia University; fellow, 1957-58, and visiting scholar, 1972-73 and 1980, Center for Advanced Study in the Behavioral Sciences. Fellow, American Academy of Arts and Sciences; member, National Academy of Sciences; Guggenheim fellow, 1947-48; editor, *Annals of Mathematical Statistics*, 1950-52; president, Institute of Mathematical Statistics, 1962-63; vice president, American Statistical Association, 1971-73.

Richard E. Barlow (mathematical statistics), 1931; B.A., Knox College, 1953; M.A., University of Oregon, 1955; Ph.D., Stanford University, 1960. With University of California, Berkeley, since 1963; professor of operations research and statistics since 1970; director, Operations Research Center, since 1976. Previously with Institute for Defense Analysis and General Telephone Research Labora-

tories. Associate editor, *Annals of Statistics* and *Annals of Probability*, 1976-79. Management Committee, *Technometrics*.

William H. Lawton (statistics), 1937; A.A., 1957, A.B., 1959, M.A., 1962, and Ph.D., 1965, University of California, Berkeley. With Eastman Kodak Company since 1962; supervisor, Corporate Commercial Analysis, since 1977. Shewell Award, 1970; Wilcoxon Award, 1971 and 1974; editor, *Technometrics*, 1973-76; Board of Directors, American Statistical Association, 1974-76; chairman, Section on Physical and Engineering Sciences, ASA, 1979; Advisory Panel for the Center of Applied Mathematics, National Bureau of Standards, 1978-80. Chairman, *Technometrics* Management Committee.

Fred C. Leone (statistics), 1922; B.A., Manhattan college, 1942; M.S., Georgetown University, 1943; Ph.D., Purdue University, 1949. Executive director, American Statistical Association, since 1973. Previously with Georgetown University, Purdue University, Case Institute of Technology, and University of Iowa; professional fellow, University of California, Berkeley, 1962-63; Fulbright professor, University of São Paulo, 1968-69. Council, ASA, 1957-58 and 1963-68; editor, *Technometrics*, 1963-68; regional editor, *Statistical Theory and Method Abstracts*, 1969-73. Board and chair, Section on Physical and Engineering Sciences, ASA; Board of Trustees, Federal Statistics Users' Conference; Council, Bernoulli Society, International Statistical Institute.

Section W-Atmospheric and Hydrospheric Sciences

Council Delegate (one to be elected).

Joost A. Businger
Jerome Spar

Joost A. Businger (atmospheric sciences), 1924; Ph.D., University of Utrecht, 1954. With University of Washington since 1958; professor, Department of Atmospheric Sciences, since 1965. Previously with University of Wisconsin. Second Half Century Award, American Meteorological Society, 1978. Technical editor, English edition, *Izvestiya, Atmospheric and Oceanic Physics*; editor, Antarctic Research Series volume on Plateau Station; member representative, University Corporation for Atmospheric Research.

Jerome Spar (meteorology), 1918; B.S., City College of New York, 1940; M.S., 1943, and Ph.D., 1950, New York University. Professor of meteorology, Department of Earth and Planetary Sciences, City College of New York, since 1973. Previously with U.S. Army Air Corps, New York University, and U.S. Weather Bureau. Associate editor, *Journal of Geophysical Research* (Oceans and Atmospheres). AAAS activities: Electorate Nominating Committee, Section on Atmospheric and Hydrospheric Sciences, 1974-75.

Chairperson-Elect (one to be elected).

Margaret A. LeMone
Frederick Sanders

Margaret A. LeMone (meteorology), 1946; A.B., University of Missouri, 1967; Ph.D., University of Washington, 1972. With National Center for Atmospheric Research since 1972; staff scientist since 1973. Woodrow Wilson and NSF fellow, 1967; Honorable Mention, NCAR Science Publication Award,

1977; head, Board on Women and Minorities, American Meteorological Society, 1975-78; Council, AMS, 1977-80. AAAS activities: Electorate Nominating Committee, Section on Atmospheric and Hydrospheric Sciences, 1977-79, chairperson, 1978-79.

Frederick Sanders (meteorology), 1923; B.A., Amherst College, 1944; Sc.D., Massachusetts Institute of Technology, 1954. With MIT since 1949; professor of meteorology since 1969. Previously with U.S. Air Force and U.S. Weather Bureau; consultant, ESSA National Hurricane Research Laboratory, 1967-68. National Weather Association Award for Outstanding Contribution to Applied Meteorology, 1977; Council, American Meteorological Society, 1977-80. Chairman, Steering Committee, Project SESAME.

Member-at-Large of the Section Committee (one to be elected).

Reid A. Bryson
Robert A. Duce

Reid A. Bryson (climatology), 1920; A.B., Denison University, 1941; Ph.D., University of Chicago, 1948. With University of Wisconsin, Madison, since 1946; professor of meteorology and of geography since 1968; director, Institute for Environmental Studies, since 1970. Previously with U.S. Army Air Corps; professor, University of Arizona, 1956-57. Banta Medal for Literary Achievement, 1978; president, Wisconsin Phenological Society, 1961. President-elect, Wisconsin Academy of Sciences, Arts and Letters; Committee on Problem-Oriented Research, NSF; Committee on Climatic Change, American Meteorological Society; advisory editor, *Environmental Conservation*; Science Advisory Board, Institute for Arctic and Alpine Research.

Robert A. Duce (atmospheric chemistry), 1935; B.A., Baylor University, 1957; Ph.D., Massachusetts Institute of Technology, 1964. With University of Rhode Island since 1970; professor of chemical oceanography since 1973. Previously with MIT and University of Hawaii; visiting professor, University of Texas, 1975; collaborateur étranger, CFR/CNRS, France, 1976-77; visiting scientist, NOAA Environmental Research Laboratories, 1977. Chairman-elect, Hawaiian Section, American Chemical Society, 1969; Ocean Sciences Committee, NAS-NRC, 1973-75; Science Advisory Board, Environmental Protection Agency, 1976-79; chairman, Committee on Atmospheric Chemistry and Radioactivity, American Meteorological Society, 1973-74. Executive Committee, Advisory Committee for Ocean Sciences, NSF; secretary, IAMAP Commission on Atmospheric Chemistry and Global Pollution; SCOR Working Group 44, Ocean/Atmosphere Material Exchange; chairman, Executive Committee, Sea/Air Exchange Program, NSF; Executive Committee, Global Atmospheric Measurement Experiment for Tropospheric Aerosols and Gases Program, NSF; GESAMP-WMO Working Group on the Interchange of Pollutants between the Atmosphere and Ocean; Board of Editors, *Marine Chemistry*.

Members of the Electorate Nominating Committee (two to be elected).

E. Ann Berman
Duncan C. Blanchard
W. Lawrence Gates
Clayton A. Paulson

E. Ann Berman (meteorology), 1947; B.S., Michigan State University, 1969; M.S., 1970, and Ph.D., 1974, University of Wisconsin. With Environmental Research and Technology since 1974; manager, Resource Development, since 1979. Board on Women and Minorities, American Meteorological Society.

Duncan C. Blanchard (atmospheric science), 1924; B.S., Tufts University, 1947; M.S., Pennsylvania State University, 1951; Ph.D., Massachusetts Institute of Technology, 1961. Senior scientist, Atmospheric Sciences Research Center, State University of New York, Albany, since 1968. Previously with General Electric Company and Woods Hole Oceanographic Institution. Coffin graduate fellow, General Electric Company, 1949; Associates fellow, Woods Hole Oceanographic Institution, 1956-58; treasurer, Electrostatics Society of America, 1970-71. Member of several committees at SUNY, Albany.

W. Lawrence Gates (atmospheric sciences), 1928; S.B., 1950, S.M., 1951, and Sc.D., 1955, Massachusetts Institute of Technology. Professor and chairman, Department of Atmospheric Sciences, and director, Climatic Research Institute, Oregon State University, since 1976. Previously with MIT, Air Force Cambridge Research Center, University of California, Los Angeles, Travelers Research Center, and Rand Corporation. Former member of numerous committees and working groups, American Meteorological Society, NAS, Scripps Institution of Oceanography, National Oceanic and Atmospheric Administration, World Meteorological Organization, and Environmental Protection Agency. Among current appointments: associate editor, *Journal of Physical Oceanography*; Working Group on Numerical Experimentation, GARP Joint Organizing Committee, and Working Group on Atmospheric Carbon Dioxide, Commission for Atmospheric Sciences, WMO; Committee on the Role of the Polar Regions in Climatic Change, Climate Dynamics Panel, U.S. Committee for GARP, and project leader, Working Group VIII, US-USSR Bilateral Agreement on Cooperation in the Field of Environmental Protection, NAS; Committee on Climate Variations, AMS.

Clayton A. Paulson (air-sea interaction), 1938; B.A., Augsburg College, 1960; Ph.D., University of Washington, 1967. With Oregon State University since 1971; professor of physical oceanography since 1979. Previously with University of Washington. NATO associate in meteorology and Danish AEC fellow, 1970-71. Chairman, NATO Special Program Panel on Air-Sea Interaction; Polar Research Board, NRC; SCOR Working Group 58 on the Arctic Ocean Heat Budget.

Section X-General

Council Delegate (one to be elected).

Thomas F. Jones
Herbert Scoville, Jr.

Thomas F. Jones (education), 1916; B.S., Mississippi State University, 1939; M.S., 1940, and Sc.D., 1952, Massachusetts Institute of Technology. With MIT since 1974; vice president for research since 1975; professor, School of Engineering, since 1977. Previously with Naval Research Laboratory, Purdue University, and University of South Carolina. Meritorious Civilian Service Award, U.S. Navy, 1947; South Carolinian of

the Year, 1966; member, National Academy of Engineering; National Science Board, 1966-72; Executive Committee, Highway Research Board, 1967-70; president, Southern Association of Land-Grant Colleges and State Universities, 1970; chairman, Advisory Committee for Applied Science and Research Applications Policy, NSF, 1976-79. Vice president for public affairs and chairman, Projects Board, American Society for Engineering Education; Advisory Committee of Engineering and Applied Science Directorate, NSF; Council on Research Policy and Graduate Education, National Association of State Universities and Land-Grant Colleges; Board of Directors, Oak Ridge Associated Universities.

Herbert Scoville, Jr. (physical chemistry), 1915; B.S., Yale University, 1937; Ph.D., University of Rochester, 1942. Retired from government service in 1969; currently consultant, writer, and lecturer. Previously with National Defense Research Committee, U.S. Atomic Energy Commission (Los Alamos Laboratory), Armed Forces Special Weapons Project, Central Intelligence Agency, and U.S. Arms Control and Disarmament Agency (assistant director, Science and Technology). Director, Arms Control Program, Carnegie Endowment for International Peace, 1969-71; secretary, Federation of American Scientists, 1970-74. President, Arms Control Association; Boards, New Directions and Council for a Livable World; Board of Advisors, Center for Defense Information. AAAS activities: Committee on Science in the Promotion of Human Welfare, 1973-74; Electorate Nominating Committee, Section X-General, 1974-76; Council, 1978-80; Committee on Council Affairs, 1979-80.

Chairperson-Elect (one to be elected).

Daniel Alpert
Clarence C. Ohlke

Daniel Alpert (science, technology, and society), 1917; B.S., Trinity College, 1937; Ph.D., Stanford University, 1942. Professor of physics, University of Illinois, since 1957; director, Center for Advanced Study, and associate director, Computer-Based Education Research Laboratory, since 1972. Previously with Manhattan Project and Westinghouse Research Laboratories. Newcomb Cleveland Prize, AAAS, 1954; Guggenheim fellow, 1965; chairman, Committee on Science, Technology, and Regional Economic Development, NAS-NAE, 1967-69; former editor, *Journal of Vacuum Science and Technology*. Trustee, Institute for Defense Analyses and Trinity College; Commission on Sociotechnical Systems, NRC. AAAS activities: Electorate Nominating Committee, Section X-General, 1974 and 1977-79, chairman, 1974 and 1979.

Clarence C. Ohlke (public administration), 1916; B.S., University of Missouri, 1940. Consultant in areas of public policy since 1973. Previously with City of Kansas City, Missouri, U.S. Department of the Navy, U.S. Atomic Energy Commission, National Science Foundation, and Drexel University (director, Center for Urban Research and Environmental Studies). Certificates of Appreciation, AEC, 1960 and 1966; Commendation, National Science Board, 1973; Distinguished Service Award, NSF, 1973. AAAS activities: Committee on Public Understanding of Science, 1977-79.

Member-at-Large of the Section Committee (one to be elected).

Joseph F. Coates
Dael Wolfe

Joseph F. Coates (administration), 1929; B.S., Polytechnic Institute of Brooklyn, 1951; M.S., Pennsylvania State University, 1953. President, J. F. Coates, Inc., since 1979. Previously with Atlantic Refining Company, Onyx Chemical Company, Institute for Defense Analyses, National Science Foundation, and Office of Technology Assessment. Marshall Dimock Award, American Society for Public Administration, 1976. AAAS activities: secretary, Section X-General, 1974-78.

Dael Wolfe (science administration), 1906; B.S., 1927, and M.S., 1928, University of Washington; Ph.D., Ohio State University, 1931. With University of Washington since 1970; professor emeritus since 1976. Previously with Ohio State University, University of Mississippi, University of Chicago, American Psychological Association, Commission on Human Resources and Advanced Training, and AAAS (executive officer). Presidential Certificate of Merit, 1948; Air Force Exceptional Service Medal, 1957. Chairman, Advisory Board, Geophysical Institute; Board of Directors, Biological Sciences Curriculum Study; chairman, Board of Directors, Pacific Science Center; chairman, Board of Trustees, James McKeen Cattell Fund. AAAS activities: Section Committee, Section on Psychology, 1949-51; Board of Directors (ex officio), 1954-70; Committee on Publications, 1974; Committee on Scientific Freedom and Responsibility, 1976-78; member-at-large of the Section Committee, Section X-General, 1977-80.

Members of the Electorate Nominating Committee (two to be elected).

Dean Abrahamson
Arlene Blum
T. Keith Glennan
Edward B. Montgomery

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