

Election of AAAS Officers

The following nominees for AAAS offices were selected by the AAAS Committee on Nominations and Elections at a meeting held on 4 May. All have agreed to serve if elected.

President-Elect (one to be elected)
Athelstan Spilhaus
Alvin M. Weinberg

Members of the Board of Directors
(two to be elected)
Richard H. Bolt
Lewis M. Branscomb
Gordon J. F. MacDonald
Mina S. Rees

Members of the Committee on Council Affairs (three to be elected)
Louis J. Battan
Forrest I. Boley
Merrill M. Flood
Gordon K. Teal
Clarke Williams
Frank Bradshaw Wood

On petition signed by no fewer than 30 members of the Council and submitted to the Executive Officer no later

than 1 November, the names of additional nominees may be included on the election ballot that will be mailed to Council members shortly after 1 November. Results of the election will be announced at the Council meeting on 30 December in Dallas, Texas.

Brief biographies of the nominees follow.

For President-Elect

The nominee who is elected will serve as president-elect in 1969, as president in 1970, and as retiring president and chairman of the Board of Directors in 1971.

Athelstan Spilhaus

Athelstan Spilhaus, 56 (meteorology, oceanography), research assistant, Massachusetts Institute of Technology, 1933-35; assistant director of technical services, Union of South Africa Defense Forces, 1935-36; research assistant in oceanography, Woods Hole Oceanographic Institution, 1936-37, investi-

gator in physical oceanography, 1938-60; assistant professor of meteorology to professor and director of research, New York University, 1937-48; dean, Institute of Technology, University of Minnesota, 1949-66; president, Franklin Institute, 1967-; meteorological adviser to Union of South Africa Government, 1947; Baker Mission to Korea, 1952; U.S. representative to Executive Board, UNESCO, 1954-58; U.S. National Committee for the International Geophysical Year; Advisory Panel on General Sciences, Office of the Secretary of Defense; Scientific Advisory Board, U.S. Air Force; chairman, National Fisheries Center and Aquarium Advisory Board, Department of the Interior; National Academy of Sciences-National Research Council: Committee on Polar Research, Committee on Natural Resources, Pacific Science Board, chairman, Committee on Oceanography, 1961-64; trustee, International Oceanographic Institution, Pacific Science Center Foundation, Aerospace Corporation, American Museum of Electricity, St. Paul Institute; U.S. Commissioner, Seattle World's Fair, 1961-63; director, Marine Technology Society; chairman, Scientific Advisory Committee, American Newspaper Publishers Association; Board of Directors, American Museum of Archaeology; Advisory Board, Nova University; National Science Board, 1966-72; author of "Our New Age," Sunday illustrated feature, *Satellite of the Sun*, 1958, *Turn to the Sea*, 1959, *The Ocean Laboratory*, 1966; inventor of bathythermograph and Spilhaus space clock; Legion of Merit, U.S. Air Force, 1946; Exceptional Civilian Service Medal, U.S. Air Force, 1952; Patriotic Civilian Service Award, Department of the Army, 1959.

AAAS activities: Representative to Board of Trustees, Science Service, 1963-71; Board of Directors, 1964-67; Council, 1964-67; Board of Directors representative to Committee on Public Understanding of Science, 1966-67, and to Commission on Science Education, 1967; Committee on AAAS Meetings, 1967-70.

Alvin M. Weinberg

Alvin M. Weinberg, 53 (research administration, nuclear technology, science and public policy), research assistant in mathematical biophysics, University of Chicago, 1939-41, research associate, Metallurgical Laboratory,



Athelstan Spilhaus



Alvin M. Weinberg



Richard H. Bolt

1941–45; staff member, Oak Ridge National Laboratory, 1945–, section chief, physics, 1947–48, director, Physics Division, 1948–49, research director, 1949–55, director, 1955–; vice president, Union Carbide Corporation's Nuclear Division, 1965–; regents' lecturer, University of California, Santa Barbara, 1966; Council, American Physical Society, 1955–59; Scientific Advisory Board, U.S. Air Force, 1956–59; president, American Nuclear Society, 1959–60; President's Science Advisory Committee, 1960–62, chairman, Panel on Scientific Information; President's Committee on National Medal of Science, 1966–; member, National Academy of Sciences, Council, 1967–, Committee on Science and Public Policy, Committee on Social and Behavioral Urban Research, vice-chairman, Committee on Applied Science and Technological Progress; author of *Reflections on Big Science*; coauthor of *The Physical Theory of Neutron Chain Reactors*; co-winner, Atoms-for-Peace Award, 1960; E. O. Lawrence Memorial Award, 1960; University of Chicago Alumni Medal, 1966.

For Board of Directors

Two of the four nominees are to be elected for 4-year terms.

Richard H. Bolt

Richard H. Bolt, 57 (physics), associate in physics, University of Illinois, 1940–41; technical director, underwater sound project, Massachusetts Institute



Lewis M. Branscomb

of Technology, 1941–42; scientific liaison officer, Office of Scientific Research and Development, London, 1943; chief technical aide, Division 6, National Defense Research Committee, 1944–45; associate professor of physics, Massachusetts Institute of Technology, 1946–54, professor of acoustics, 1954–64, director, Acoustics Laboratory, 1946–57; principal consultant, Biophysics and Biophysical Chemistry Study Section, National Institutes of Health, 1957–60; associate director and head of Science Resources Planning Office, National Science Foundation, 1960–63; fellow, Center for Advanced Study in the Behavioral Sciences, 1963–64; chairman of the board, Bolt Beranek and Newman Inc., 1953–; lecturer in political science, Massachusetts Institute of Technology, 1964–; president, Acoustical Society of America, 1949–50; president, International Commission on Acoustics, 1951–57; first chairman, Armed Forces–National Research Council Committee on Hearing and Bio-acoustics, 1953–55; Subcommittee on Aircraft Noise, National Advisory Committee on Aeronautics, 1953–57; president, Second International Congress on Acoustics, 1956; Committee on Operating Problems, National Aeronautics and Space Administration, 1959; Governing Board, American Institute of Physics; trustee, Pacific Science Center Foundation, 1963–66; coauthor of *Sonics*, 1955; Biennial Award, Acoustical Society of America, 1942.

AAAS activities: Council, 1957–59; Committee on Science in the Promotion of Human Welfare, 1965–69.

Lewis M. Branscomb

Lewis M. Branscomb, 42 (physics), physicist, National Bureau of Standards, 1951–; lecturer in physics, University of Maryland, 1952–53; chief, Atomic Physics Section, National Bureau of Standards, 1954–60, chief, Atomic Physics Division, 1960–62, chief, Laboratory Astrophysics Division (Boulder, Colorado), 1962–; professor adjoint, University of Colorado, 1962–; fellow, Joint Institute for Laboratory Astrophysics, 1962–, chairman, 1962–65, 1968–69; visiting staff member, University College, London, 1957–58; Reaction Rate Working Group, Defense Atomic Support Agency, 1960–65; chairman, Division of Electron Physics, American Physical Society, 1961; Advisory Committee on Ballistic Missile Defense, Advanced Research Projects Agency, 1961; President's Science Advisory Committee, 1965–, chairman, Panel on Space Science and Technology; Standing Committee for Controlled Thermonuclear Research, Atomic Energy Commission, 1966–68; Board of Editors, American Physical Society, 1966–; editor-elect, *Reviews of Modern Physics*, 1968; Rockefeller Public Service Award, 1957–58; Outstanding Scientific Achievement Award, Washington Academy of Sciences, 1959; Gold Medal for Exceptional Service, Department of Commerce, 1961; Arthur Flemming Award, District of Columbia Junior Chamber of Commerce, 1962; Samuel W. Stratton Award, Department of Commerce, 1966; Career Service Award, National Civil Service League, 1968.

Gordon J. F. MacDonald

Gordon J. F. MacDonald, 39 (geophysics), assistant professor of geology and geophysics, Massachusetts Institute of Technology, 1954–55, associate professor of geophysics, 1955–58; staff associate, Geophysical Laboratory, Carnegie Institution of Washington, 1955–63; professor of geophysics, University of California, Los Angeles, 1958–68, director, Atmospheric Research Laboratory, 1960–66, associate director, Institute of Geophysics and Planetary Physics, 1960–68, chairman, Department of Planetary and Space Science, 1965–66; vice president for research, Institute for Defense Analyses, 1966–67, executive vice president, 1967–68; vice chancellor for research and grad-

uate affairs, University of California, Santa Barbara, 1968–; Vanuxem Lectures, Princeton University, 1959; Fulbright lecturer, France, 1962; lecturer, Italian Physical Society, Italy, 1962; Phi Beta Kappa Visiting Scholar Program, 1965 and 1966; member, National Academy of Sciences, Committee on Atmospheric Sciences, 1961–, Space Science Board, 1962–, Earth Sciences Division, 1967–, chairman-designate, 1968; Technical Advisory Board, Department of Commerce, 1964–66; Advisory Panel for Weather Modification, National Science Foundation, 1964–67; National Aeronautics and Space Administration: Science and Technology Committee for Manned Space Flight, 1964–, Lunar and Planetary Missions Board, 1967–; U.S.–Japan Committee on Scientific Cooperation, Department of State, 1965–67; President's Science Advisory Committee, 1965–, and numerous PSAC panels; Board of Trustees, Institute for Defense Analyses, 1966–; Defense Science Board, 1967–; Special Study Group on Noise and the Sonic Boom in Relation to Man, Department of the Interior, 1967–; U.S. Committee for the Global Atmospheric Research Program, 1968–; editor, *Reviews of Geophysics*, 1962–, *Journal of Atmospheric Sciences*, 1964–; associate editor of several other journals; coauthor of *The Rotation of the Earth*, 1960; American Academy of Arts and Sciences Monograph Prize in Physical and Biological Sciences, 1959; James B. Macelwane Award, American Geophysical Union, 1965.

AAAS activities: Committee on Pub-

lic Understanding of Science, 1963–65; Holiday Science Lecturer, 1965; Editorial Board, 1965–; Committee of Judges, AAAS-Westinghouse Science Writing Awards, 1967; Committee of Judges, AAAS-Newcomb Cleveland Prize, 1967–69.

Mina S. Rees

Mina S. Rees (mathematics), instructor to professor and dean of faculty, Hunter College, 1926–61; professor and dean of graduate studies, City University of New York, 1961–68, provost, Graduate Division, 1968–; technical aide and executive assistant to chief, Applied Mathematics Panel, National Defense Research Committee, Office of Scientific Research and Development, 1943–46; head, Mathematics Branch, Office of Naval Research, 1946–49, director, Mathematical Sciences Division, 1949–52, deputy science director, 1952–53; National Research Council: Mathematics Division, 1953–56, chairman, Subcommittee on Applied Mathematics, Committee on Survey of Research in Mathematics in U.S.A., 1954–56; chairman, Advisory Committee on Mathematics, National Bureau of Standards, 1954–57; Advisory Panel on Mathematics, National Science Foundation, 1955–58; trustee, American Mathematical Society, 1955–59; councilor, New York Academy of Sciences, 1957–60; Conference Board of the Mathematical Sciences, 1959–62; Advisory Board, School Mathematics Study Group, 1962–65; Commission on Administration, American Council on Education, 1963–; National Science Board,



Louis J. Battan

1964–; Executive Committee, Council of Graduate Schools, 1967–; President's Certificate of Merit, 1948; King's Medal for Service in the Cause of Freedom (British), 1948; First Award for Distinguished Service to Mathematics, 1962; New York City's Public Service Award for Professional Achievement, 1964; American Association of University Women Achievement Award, 1965.

AAAS activities: Vice president and chairman, Section on Mathematics (A), 1954; Council, 1954, 1958–68; Board of Directors, 1958–60, 1962–68; Committee on Public Understanding of Science, 1962–63; Committee on Publications, 1967–71.

For Committee on Council Affairs

Three of the six nominees are to be elected for 3-year terms.

Louis J. Battan

Louis J. Battan, 45 (meteorology), radar weather officer, Army Air Force, 1944–46; research meteorologist, U.S. Weather Bureau, 1947–51; research meteorologist and lecturer, University of Chicago, 1951–58; associate director, Institute of Atmospheric Physics, and professor of meteorology, University of Arizona, 1958–; American Meteorological Society: Council, 1959–61, 1968–, president, 1966–67; Committee on Atmospheric Sciences, National Academy of Sciences, 1966–; associate editor, *Journal of Meteorology*, 1961, *Journal of Atmospheric Sciences*, 1962–65; author of *Radar Meteorology*, 1959, *The Nature of Violent Storms*, 1961,



Gordon J. F. MacDonald



Mina S. Rees



Forrest I. Boley

Radar Observes the Weather, 1962, *Cloud Physics and Cloud Seeding*, 1962, *The Thunderstorm*, 1964, *The Unclean Sky*, 1966; coauthor of *Earth and Space Science*, 1966; Meisinger Award, American Meteorological Society, 1962.

AAAS activities: Council, 1966-68.

Forrest I. Boley

Forrest I. Boley, 42 (physics), assistant professor to professor, Wesleyan University, 1951-61, chairman of department, 1960-61; visiting scientist, Royal Institute of Technology, Stockholm, 1957-58; physicist, University of California, Lawrence Radiation Laboratory, 1961-64; professor of physics and astronomy, Dartmouth College, 1964-;



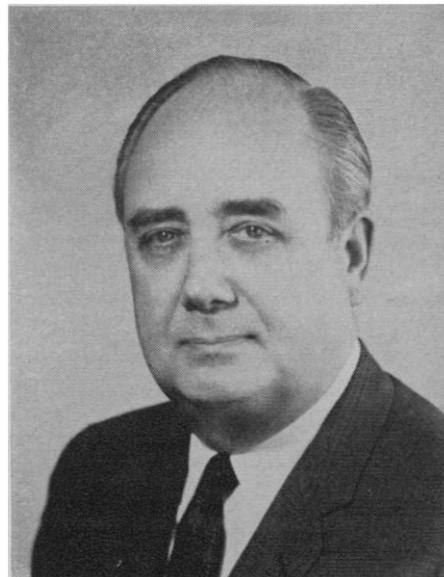
Merrill M. Flood

associate editor, *American Journal of Physics*, 1958-64, editor, 1966-.

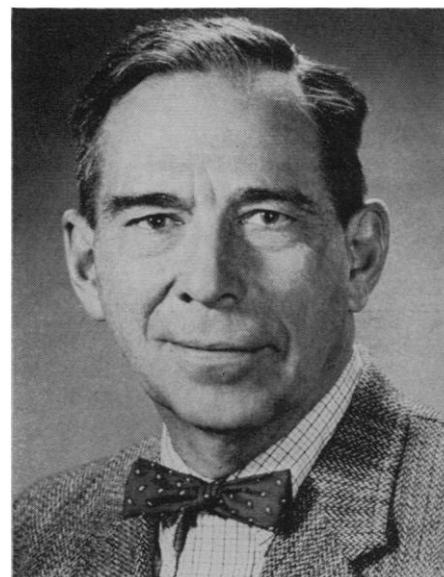
AAAS activities: Committeeman-at-large, Section on Physics (B), 1967-70; Council, 1967-70.

Merrill M. Flood

Merrill M. Flood, 59 (mathematics), instructor, University of Nebraska, 1929-31; instructor to director of Applied Mathematics Group, Princeton University, 1932-46; official investigator, Office of Scientific Research and Development, 1940-46; owner, Merrill Flood and Associates, 1942-49; expert consultant to the Secretary of War, 1946-47; assistant deputy director of research and development, Department of the Army, 1947-48; executive director, secretary-treasurer, and managing editor, American Statistical Association, 1948-49; project officer for logistics, RAND Corporation, 1949-52; professor of industrial and management engineering, Columbia University, 1953-56, director, Institute for Research in the Management of Industrial Production, 1954-56; associate director, Engineering Research Institute, and head of Willow Run Laboratories, University of Michigan, 1956-58, professor of industrial engineering, 1956-67, professor and senior research mathematician, Mental Health Research Institute, 1959-67, professor of mathematical biology (psychiatry), 1960-67; principal scientist, System Development Corporation, 1967-; visiting professor of business administration, University of California, Berkeley, 1963-64; visiting professor of management, Massachusetts Institute of Technology, 1965-66; regents' lecturer, University of California, Irvine, 1968; Institute of Management Sciences: chairman of founding constitution committee, 1953, president, 1955, editor of *Management Science-Series B*, 1964-; Council, Society for Industrial and Applied Mathematics, 1955-58; Operations Research Society of America: Council, 1956-59 and 1961-64, president, 1961; Executive Council, Society for Biomedical Computing, 1962-; vice president, American Institute of Industrial Engineers, 1963-67; chairman, Science Information Council, National Science Foundation, 1966-67; Council, Conference Board of the Mathematical Sciences, 1967-; Operations Research Council, Mayor of New York City, 1967-68; Editorial Advisory Board, *Science Citation Index*, 1966-.



Gordon K. Teal



Clarke Williams



Frank Bradshaw Wood

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Edited by C. LADD PROSSER
Published July 1967

A symposium presented at the Berkeley Meeting of AAAS, December 1965. AAAS Publication No. 84, 398 pages, 41 tables, 127 illustrations, bibliography, index. Regular Price \$12.50. AAAS Members' Cash Orders \$10.50.

Molecular Mechanisms of Temperature Adaptation is a collection of papers on the general physiology of temperature adaptation in cold-blooded animals, plants, and microorganisms. Twenty-four contributors from the Soviet Union, Germany, Canada, Denmark, and the United States report recent research findings on the diverse molecular mechanisms of response, acclimation, and adaptation to heat and cold in bacteria, plant cells and tissues, insects, fishes, amphibians, and reptiles.

AAAS

1515 Massachusetts Ave., NW
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AAAS activities: Council, 1958-; Congressional Science Seminar Lecturer, 1962.

Gordon K. Teal

Gordon K. Teal, 61 (chemistry), research associate, Columbia University, 1932-35; research physical scientist, Bell Telephone Laboratories, 1930-53; assistant vice president, Texas Instruments Incorporated, 1953-64, director of materials and components research, 1953-54, director of Research Division, 1954-57, director of research, 1957-61, director of research and engineering, 1961-62, international technical director, 1963-64; director, Institute for Materials Research, National Bureau of Standards, 1965-67; assistant vice president in charge of technical development, Equipment Group, Texas Instruments Incorporated, 1967-; American Chemical Society tour speaker, 1952, 1953, and 1954; National Academy of Sciences-National Research Council: Panel on Selenium, 1956, Panel on Semiconductors, 1957, Materials Advisory Board, 1960-64; Materials Panel of Advisory Group on Electronic Parts, Office of the Assistant Secretary of Defense, 1956-59; Institute of Radio Engineers: Editorial Board, 1958-61, director, 1959, director-at-large, 1962; president, Texas Academy of Science, 1960; chairman, Executive Technical Development Board, Polytechnic Institute of Brooklyn, 1963-; Outstanding Alumnus Award, Baylor University, 1964; 1966 Inventor of the Year Award, Patent, Trademark and Copyright Research Institute, George Washington University; Medal of Honor, Institute of Electrical and Electronics Engineers, 1968.

AAAS activities: Committeeman-at-large, Section on Industrial Science (P), 1968-71; Council, 1968-71.

Clarke Williams

Clarke Williams, 66 (nuclear engineering, physics), assistant engineer, New York Central Railroad, 1925-26; assistant in physics, Columbia University, 1926-30; instructor in physics, City College of New York, 1930-44, assistant professor, 1944-48; assistant chairman, Nuclear Reactor Group, Brookhaven National Laboratory, 1946-51, associate chairman, Reactor Science and Engineering Department, 1951-52, chairman, Nuclear Engineering Department, 1952-62, deputy director, 1962-; scientific staff, Office of Scientific



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E. A. Cohen, A. J. R. Bourn, and S. L. Manatt, NMR Studies of Some Pentafluorobenzenes

F. A. L. Anet and J. L. Sudmeyer, Determination of the Relative Signs of Coupling Constants in Some Organomercuric Compounds by Internuclear Double and Triple Magnetic Resonance

Gerd N. LaMar, Proton Magnetic Resonance Studies of Magnetic Anisotropy in Di-Adducts of Cobalt(II)-bis(Acetylacetonate)

*VOLUME 1, 1969 (Bimonthly), \$25.00
Personal Subscription,* \$15.00*

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27 SEPTEMBER 1968

Research and Development (Columbia University), 1941-44; group leader, Manhattan Project (Carbide and Carbon Chemical Company), 1944-46; senior scientist, Los Alamos Scientific Laboratory, 1947-48; New York State Advisory Committee on Atomic Energy, 1956-59; American Nuclear Society: Board of Directors, 1957-60, National Program Committee, 1957, chairman, Planning and Coordination Committee, 1957-58, Education Committee, 1960, vice president, 1962, president, 1963-64, director of publications, 1965-67; Board of Directors, Skills Unlimited, 1962-; General Advisory Committee on Atomic Energy, New York State, 1966-; Subcommittee on Oceanography, Nassau-Suffolk Bi-County Planning Board; Atomic Safety and Licensing Board Panel, Atomic Energy Commission, 1967-; Board of Trustees, Williams College, 1967-; Committee on Radioactive Waste Disposal, National Academy of Sciences, 1968-.

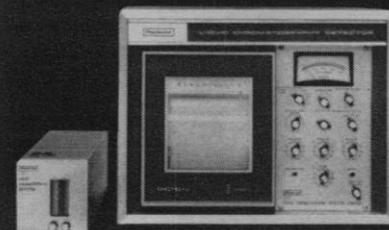
AAAS activities: Council, 1967-.

Frank Bradshaw Wood

Frank Bradshaw Wood, 52 (astronomy), research associate, Princeton University, 1946; National Research Council fellow, Steward Observatory, University of Arizona, and Lick Observatory, University of California, 1946-47; assistant professor and assistant astronomer, Steward Observatory, University of Arizona, 1947-50; associate professor to Flower professor, University of Pennsylvania, 1950-68, executive director, Astronomical Observatories, 1950-54, director, 1954-68; professor and director, Optical Astronomical Observatories, University of Florida, 1968-; ensign to lieutenant commander, U.S. Naval Reserve (active duty), 1941-46; Fulbright research scholar, Mount Stromlo Observatory, 1957-58; visiting professor, American Astronomical Society, 1959-; Council, American Astronomical Society, 1958-61; International Astronomical Union: Organizing Committee and chairman, Committee on Cooperative Observational Programs, Commission 42, 1961-67, secretary, Commission 38, 1964, 1967, president, Commission 42, 1967-.

AAAS activities: Secretary, Section on Astronomy (D), 1958-69; Council, 1958-69; Committee of Judges, AAAS-Newcomb Cleveland Prize, 1961-63; Committee on Council Affairs, 1961-64.

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