

## FOREWORD

This issue of *The Physiologist*, containing the story of the American Physiological Society and how it operates is a special issue substituting for the regular August issue. The regular August issue normally carries the abstracts of the Fall Meeting presentations. The Fall Meeting for 1968 was cancelled due to the XXIVth Congress.

## CONTENTS

	Page
President's Message .....	137
The American Physiological Society .....	138
Brief History of the Society .....	147
Beaumont and APS Headquarters .....	151
Meetings .....	155
APS Relations with other Organizations .....	157
Membership .....	159
Ancillary Groups .....	161
Past Presidents .....	162
Present Officers .....	167
Activities and Duties of Officers and Committees .....	175
IUPS Nomenclature Committee .....	185

## PRESIDENT'S MESSAGE

LOREN D. CARLSON

This year the American Physiological Society has the pleasure of being the major host for many foreign physiologists attending the XXIV International Congress of Physiological Sciences. The members of the American Physiological Society have indicated their interest and sincerity in being excellent hosts by their contributions and by their support of the planning and preparation for the Congress over the past three years. I extend greetings for the Society to all visiting physiologists. With the general and comparative physiologists in the United States, we look forward to meeting our colleagues from around the world.

Since the United States last served as host for the International Congress in 1929, the Society has grown in size from 428 to 3,378 members and has increased its scope and influence throughout universities, industry and government. These changes place an obligation on the Society to look to the future. The history of the function of the Society has been essentially a history of the activities of its members. Now, as the Society increases in size, we must consider the role that the Society, through its officers, council, committees and members, should play in communications, advancement in education, influence and contribution in government; and devise the proper growth plan to meet the pressures of fragmentation as subspecialties in physiology continue to develop. The reduction of the technological gap and the recognition of the pressure of applied problems for solution, while maintaining the freedom for scientific endeavor and the stimulus of teaching in fundamental areas, require our attention.

Undoubtedly, the most powerful instrument of the Society is its group of publications. However, the Society also is deeply involved in education matters at all levels of instruction and has done much to further these endeavors. We may need to develop other resources, such as the development of educational techniques and means of communication in public affairs as well as among members and with other biologists.

Informal discussions and personal contacts have been the essence of the success of the Society's meetings. The Fall Meeting was initiated in 1948 to recapture some of the desirable elements of the small meeting. There were 422 registered at that meeting. There are now over a thousand who attend the Fall Meetings. It appears that many members are now "spot attending" our national meetings, i.e., coming to meetings for one or two days. As an example, 23,000 people attended the Federation Meetings in 1968 with an estimated 12,000 attendance at any one time. The exchange of scientific information is occurring within smaller groups. The vertical division of physiology into systems has been replaced by a horizontal stratification from molecular to control systems and our meeting structure should recognize this.

At the national as well as international level, meetings provide for open discussions and the exchange of information - the provision of the proper mechanisms to permit this is a most significant challenge.

## THE AMERICAN PHYSIOLOGICAL SOCIETY

Founded December 30, 1887; Incorporated June 2, 1923

### OFFICERS, 1968-1969

President - Loren D. Carlson, University of California Medical School, Davis, California 95616

President-Elect - C. Ladd Prosser, University of Illinois, Urbana, Illinois 61801

Past-President - Robert W. Berliner, National Institutes of Health, Bethesda, Maryland 20014

Council - L. D. Carlson (1970), C. L. Prosser (1971), R. W. Berliner (1969), A. C. Barger (1972), H. D. Patton (1971), J. R. Brobeck (1970), D. C. Tosteson (1969)

Executive Secretary-Treasurer - Ray G. Daggs, 9650 Rockville Pike, Bethesda, Maryland 20014

### STANDING COMMITTEES

Publications - A. C. Barger (1969), Chairman; Jere Mead (1971), D. S. Fredrickson (1969). Ex-officio - J. R. Brobeck, Physiological Reviews; J. M. Brookhart, Journal of Neurophysiology; A. P. Fishman, Handbooks; R. G. Daggs, Executive Secretary-Treasurer; Sara F. Leslie, Publications Manager and Executive Editor

Finance - J. M. Brookhart (1970), Chairman; R. M. Berne (1971), E. E. Selkurt (1969). Ex-officio - R. G. Daggs, Executive Secretary-Treasurer; W. A. Sonnenberg, Business Manager

Education - A. C. Guyton (1970), Chairman; L. E. McDonald (1971), A. R. Dawe (1971), W. C. Randall (1970), J. A. F. Stevenson (1970), L. H. Marshall (1969), E. W. Hawthorne (1969); Representatives from the Society of General Physiologists - I. J. Deyrup-Olsen (1970), J. W. Green (1970); Representatives from the Comparative Physiology Division of the American Society of Zoologists - G. C. Stephens (1969), I. J. Deyrup-Olsen (1971); R. G. Daggs, Executive Director of Education Programs

Membership Advisory - D. F. Bohr (1969), Chairman; L. E. Farhi (1971), J. B. Preston (1971), G. F. Cahill (1970), C. Eyzaguirre (1970), I. S. Edelman (1970)

Program Advisory - H. D. Lauson (1971), Chairman; N. B. Schwartz (1970), S. B. Barker (1969)

Public Affairs - V. B. Mountcastle (1970), Chairman; R. K. Crane (1970), B. F. Hoffman (1970)

Senior Physiologists - D. B. Dill (1971), Chairman; E. M. Landis (1971), H. Davis (1969), H. E. Essex (1969)

Perkins Memorial Fund - J. R. Pappenheimer (1974), Chairman; H. Rahn (1974), R. E. Forster (1970), J. R. Brobeck (1970). Ex-officio - R. G. Daggs, Executive Secretary-Treasurer

Porter Physiology Development Program - A. C. Barger (1971) and E. W. Hawthorne (1971), Co-chairmen; E. P. Radford, Jr. (1971), D. F. Opydyke (1971), A. B. Otis (1970), H. E. Morgan (1970), P. Bard (1969)

International Physiology - M. B. Visscher (1971), Chairman; L. D. Carlson (1973), R. E. Forster (1972), J. M. Brookhart (1969)

Legal Counsel - W. H. Pattison, Jr.

## REPRESENTATIVES TO OTHER ORGANIZATIONS

Federation Board - C. L. Prosser (1971), L. D. Carlson (1970), R. W. Berliner (1969)  
Federation Executive Committee - L. D. Carlson (1970)  
Federation Public Affairs Committee - V. B. Mountcastle (1970)  
Federation Public Information Committee - C. S. Tidball (1970)  
Federation Proceedings Editorial Committee - E. M. Landis (1971)  
U. S. National Committee for International Union of Physiological Sciences - L. D. Carlson (1973), R. E. Forster (1972), M. B. Visscher (1971), J. M. Brookhart (1969)  
U. S. National Committee for International Union of Biological Sciences - E. Knobil (1973)  
U. S. National Committee for International Union of Pure and Applied Biophysics - A. P. Gagge (1973)  
U. S. National Committee for Engineering in Medicine and Biology - J. W. Moore (1969)  
National Research Council, Division of Biology and Agriculture - D. K. Detweiler (1970); Division of Medical Sciences - N. W. Shock (1970)  
American Association for the Advancement of Science - W. G. Van der Kloot (1970), R. G. Daggs  
American Institute of Biological Sciences - H. Rahn (1969)  
National Society for Medical Research - B. J. Cohen (1970)  
American Society for Information Science - S. F. Leslie (1970)  
Council on Medical Education and Hospitals of the AMA - D. C. Tosteson (1970)  
Council of Academic Societies of the Assoc. of American Medical Colleges - R. E. Forster (1969), A. B. Otis (1969)

## PUBLICATIONS

Publications Committee - A. C. Barger, Chairman; D. S. Fredrickson, J. Mead  
Publications Manager and Executive Editor - S. F. Leslie  
American Journal of Physiology and Journal of Applied Physiology  
Section Editors - W. C. Randall, T. Cooper (Circulation); A. B. Du Bois, J. W. Severinghaus (Respiration); G. H. Giebisch (Renal and Electrolyte); O. D. Ratnoff (Hematology); E. Grim (Gastrointestinal); B. R. Landau, R. O. Scow (Endocrinology and Metabolism); J. D. Hardy (Environmental); C. L. Prosser (Comparative and General); D. P. Purpura (Neurophysiology)  
Journal of Neurophysiology - J. M. Brookhart (Chief Editor)  
Physiological Reviews - J. R. Brobeck, Chairman Editorial Board; E. Neil, Chairman European Committee; R. G. Daggs, Associate Editor  
Handbooks of Physiology - A. P. Fishman, Chairman of Editorial Committee  
The Physiologist - R. G. Daggs, Editor

## PAST OFFICERS

Presidents - 1888 H. P. Bowditch. 1889-1890 S. W. Mitchell. 1891-1895 H. P. Bowditch. 1896-1904 R. H. Chittenden. 1905-1910 W. H.

Howell. 1911-1913 S. J. Meltzer. 1914-1916 W. B. Cannon. 1917-1918 F. S. Lee. 1919-1920 W. P. Lombard. 1921-1922 J. J. R. MacLeod. 1923-1925 A. J. Carlson. 1926-1929 Joseph Erlanger. 1930-1932 W. J. Meek. 1933-1934 A. B. Luckhardt. 1935 C. W. Greene. 1936-1937 F. C. Mann. 1938-1939 W. E. Garrey. 1938 W. T. Porter Honorary President. 1940-1941 A. C. Ivy. 1942-1945 Philip Bard. 1946-1947 W. O. Fenn. 1948 M. B. Visscher. 1949 C. J. Wiggers. 1950 H. C. Bazett (April to July); D. B. Dill. 1951 R. W. Gerard. 1952 E. M. Landis. 1953 E. F. Adolph. 1954 H. E. Essex. 1955 W. F. Hamilton. 1956 A. C. Burton. 1957 L. N. Katz. 1958 Hallowell Davis. 1959 R. F. Pitts. 1960 J. H. Comroe, Jr. 1961 H. W. Davenport. 1962 H. S. Mayerson. 1963 Hermann Rahn. 1964 J. R. Pappenheimer. 1965 J. M. Brookhart. 1966 R. E. Forster. 1967 R. W. Berliner.

Secretaries - 1888-1892 H. N. Martin. 1893-1894 W. P. Lombard. 1895-1903 F. S. Lee. 1904 W. T. Porter. 1905-1907 L. B. Mendel. 1908-1909 Reid Hunt. 1910-1914 A. J. Carlson. 1915-1923 C. W. Greene. 1924-1929 W. J. Meek. 1930 A. C. Redfield. 1931-1932 A. B. Luckhardt. 1933-1935 F. C. Mann. 1936-1939 A. C. Ivy. 1940-1941 Philip Bard.

1942 C. J. Wiggers. 1943-1946 W. O. Fenn. 1947 M. B. Visscher.

Treasurers - 1888-1892 H. N. Martin. 1893-1894 W. P. Lombard. 1895-1903 F. S. Lee. 1904 W. T. Porter. 1905-1912 W. B. Cannon. 1913-1923 Joseph Erlanger. 1924-1926 C. K. Drinker. 1927-1936 Alexander Forbes. 1937-1940 W. O. Fenn. 1941 C. J. Wiggers. 1942-1946 Hallowell Davis. 1947 D. B. Dill.

Executive Secretary-Treasurer - 1948-1956 M. O. Lee. 1956 - R. G. Daggs.

## CONSTITUTION AND BYLAWS

### CONSTITUTION

(Adopted at the 1953 Spring Meeting)

#### ARTICLE I. Name

The name of this organization is THE AMERICAN PHYSIOLOGICAL SOCIETY.

#### ARTICLE II. Purpose

The purpose of the Society is to promote the increase of physiological knowledge and its utilization.

### BYLAWS

(Amended April 1966)

#### ARTICLE I. Principal Office

SECTION 1. The Society shall have its principal place of business at 9650 Rockville Pike, Bethesda, Maryland 20014. The Central Office shall house all activities delegated to the employees of the Society.

## ARTICLE II. Corporate Seal

SECTION 1. The corporate seal of the Society shall be a circle surrounded by the words, THE AMERICAN PHYSIOLOGICAL SOCIETY. The seal shall also show the founding date and the date and place of incorporation.

SECTION 2. The Executive Secretary-Treasurer shall have custody of the seal. It shall be used on all official documents requiring it, and shall be placed on the documents by the Executive Secretary-Treasurer upon approval by Council.

## ARTICLE III. Membership

SECTION 1. The Society shall consist of regular members, honorary members, associate members, retired members and sustaining associates.

SECTION 2. Regular Members. Any person who as conducted and published meritorius original research in physiology, who is presently engaged in physiological work, and who is a resident of North America shall be eligible for proposal for regular membership in the Society.

SECTION 3. Honorary Members. Distinguished scientists of any country who have contributed to the advance of physiology shall be eligible for proposal as honorary members of the Society.

SECTION 4. Associate Members. Advanced graduate students in physiology at a predoctoral level, teachers of physiology, and investigators who have not yet had the opportunity or time to satisfy the requirements for regular membership shall be eligible for proposal for associate membership in the Society provided they are residents of North America. Associate members may later be proposed for regular membership.

SECTION 5. Retired Members. A regular or associate member who has reached the age of 65 years and/or is retired from regular employment may, upon application to Council be granted retired member status.

SECTION 6. Sustaining Associates. Individuals and organizations who have an interest in the advancement of biological investigation may be invited by the President, with approval of Council, to become sustaining associates.

SECTION 7. Nominations for Membership. Two regular members of the Society must join in proposing a person for regular membership, honorary membership or associate membership, in writing and on forms provided by the Executive Secretary-Treasurer. The Membership Committee shall investigate their qualifications and recommend nominations to Council. Council shall nominate members for election at the Spring and Fall meetings of the Society. A list of nominees shall be sent to each regular member at least one month before the Spring and Fall meetings.

SECTION 8. Election of Members. Election of regular members, honorary members and associate members shall be by secret ballot at Spring and Fall business meetings of the Society. A two-thirds majority vote of the members present and voting shall be necessary for election.

SECTION 9. Voting. Only regular members shall be voting members. Honorary, retired and associate members shall have the privilege of attending business meetings of the Society but shall have no vote.

#### ARTICLE IV. Officers

**SECTION 1. Council.** The management of the Society shall be vested in a Council consisting of the President, the President-Elect, the immediate Past-President, and four other regular members. The terms of the President and of President-Elect shall be one year. The terms of the four additional Councilors shall be four years each and they shall not be eligible for immediate reelection except those who have served for two years or less in filling interim vacancies.

A quorum for conducting official business of the Society shall be five of the seven elected members of Council.

The Chairman of the Publications Committee; the Chairman of the Finance Committee; and the Executive Secretary-Treasurer are ex-officio members of the Council without vote. The Council may fill any interim vacancies in its membership. Council shall appoint members to all committees.

**SECTION 2. President.** A person shall serve only one term as President, except that if the President-Elect becomes President after September 30 he shall continue as President for the year beginning the next July 1. The President shall chair all sessions of the Council and business meetings of the Society and shall be an ex officio member of all committees without vote.

**SECTION 3. President-Elect.** The President-Elect shall serve as Vice-President of the Society and as official secretary of the Council. Should he have to function as President prematurely, the Council shall select from among its own members an official secretary.

**SECTION 4. Election of Officers.** Nominations and election of a President-Elect and Councilor(s) shall be by secret ballot at the Spring business meeting of the Society. They shall assume office on July 1 following their election.

**SECTION 5. Executive Secretary-Treasurer.** The Council shall be empowered to appoint and compensate an Executive Secretary-Treasurer who shall assist it in carrying on the functions of the Society including the receipt and disbursement of funds under the direction of the Council. He shall be responsible for management of the Central Office of the Society under general supervision of the Council.

#### ARTICLE V. Standing Committees

**SECTION 1. Publications Committee.** A Publications Committee composed of three regular members of the Society appointed by Council shall be responsible for the management of all of the publications of the Society. The term of each member of the Publications Committee shall be three years; a member may not serve more than two consecutive terms. The Council shall designate the Chairman of the Committee who shall be an ex officio member of the Council, without vote. Council is empowered to appoint and compensate a Publications Manager who shall assist in carrying out the functions of the Publications Committee under the supervision of the Executive Secretary-Treasurer. The President, Executive Secretary-Treasurer and the Publications Manager shall be ex officio members of the Publications Committee without vote. The

Committee shall have the power to appoint editorial boards for the Society's publications. The Committee shall present an annual report on publications and policies to the Council for approval and present an annual budget coordinated through the Executive Secretary-Treasurer, to the Finance Committee for its approval and recommendation to Council.

**SECTION 2. Finance Committee.** A Finance Committee, composed of three regular members of the Society appointed by Council, shall receive the total coordinated budget proposals annually from the Executive Secretary-Treasurer and shall determine the annual budgets, reserve funds and investments of the Society, subject to approval by the Council. The term of each member of the Finance Committee shall be three years, a member may not serve more than two consecutive terms. The Council shall designate the Chairman of the Committee who shall be an ex officio member of the Council, without vote. Council is empowered to appoint and compensate a Business Manager who shall assist in carrying out the functions of the Finance Committee under the supervision of the Executive Secretary-Treasurer. The President-Elect, Executive Secretary-Treasurer and the Business Manager shall be ex officio members of the Finance Committee, without vote.

**SECTION 3. Membership Committee.** A Membership Committee, composed of six or more regular members of the Society appointed by the Council, shall receive and review processed applications for membership and make recommendations for nomination to the Council. The term of each member of the Membership Committee shall be three years; a member shall not be eligible for immediate reappointment. The Chairman of the Committee shall be designated by the Council.

**SECTION 4. Education Committee.** An Education Committee, composed of five or more regular members of the Society and representatives of such other societies as may be designated by the Council appointed by the Council, shall conduct such educational, teaching and recruitment programs as may be required or deemed advisable. The term of each member of the Education Committee shall be three years. The Chairman of the Committee shall be designated by the Council. The Executive Secretary-Treasurer may act as Executive Director of the educational programs with approval of the Council. The Committee shall present an annual report to the Council and an annual budget through the Executive Secretary-Treasurer to the Finance Committee for its approval.

**SECTION 5.** The Council may appoint such special and other standing committees as it deems necessary or that are voted by the Society. The Council may name regular members of the Society as representatives to other organizations whenever it deems such action desirable.

## ARTICLE VI. Dues

**SECTION 1. Annual Dues.** The annual dues for regular members and associate members shall be determined by the Council and shall be paid in advance of July 1. Honorary members and retired members shall pay no membership dues.

**SECTION 2. Non-payment of dues.** A regular or associate member whose dues are two years in arrears shall cease to be a member of the Society, unless after payment of his dues in arrears and application to the Council, he shall be reinstated at the next meeting by vote of the Council. It shall be the duty of the President-Elect to notify the delin-



quent of his right to request reinstatement.

**SECTION 3. Retirement.** A regular or associate member who has been granted retired membership status is relieved from the payment of dues but retains the other privileges of his former membership status, except voting privileges.

## ARTICLE VII. Financial

**SECTION 1. Society Operating Fund.** The Society Operating Fund shall consist of all funds, other than Publication Operating Funds and Publication Contingency and Reserve Funds, restricted or unrestricted, uninvested or invested, short or long term. The Executive Secretary-Treasurer shall be the responsible agent to the Council with signatory powers. Signatory powers may be delegated to the Business Manager by the Executive Secretary-Treasurer.

**SECTION 2. Publications Operating Fund.** The Publications Operating Fund shall consist of all funds that involve receipts, expenses, short-term investments relating to the annual receipts, disbursements and continuing operation of the Society's publications. The Executive Secretary-Treasurer shall be the responsible agent to the Council with signatory powers. Signatory powers may be delegated to the Publication Manager and/or the Business Manager by the Executive Secretary-Treasurer.

**SECTION 3. Publications Contingency and Reserve Fund.** The Publications Contingency and Reserve Fund shall consist of the long-term capital investments of publication earnings. The Executive Secretary-Treasurer, with advice from the Finance Committee, shall have discretionary and signatory powers, except for withdrawals. Authority for any withdrawal from this fund, shall require the following five signatures: 1) the Chairman of the Publications Committee (alternate, the senior member of the Committee); 2) the President of the Society (alternate, the President-Elect); 3) the Executive Secretary-Treasurer (alternate, the Publications Manager); 4) and 5) any two members of Council. The Finance Committee shall not recommend to Council the expenditure of any of this capital fund for non-publication purposes without the consent of the Publications Committee. The Finance Committee shall be responsible for the separate investment of the reserve fund for publications; any capital gains from such investment shall accrue to the fund (capital losses will, however, reduce its value). Any dividends, interest or income, other than capital gains, from this invested fund may be used for emergency support of any of the activities of the Society, including publications, as determined annually by the Council but the primary goal shall be to increase the investment capital.

**SECTION 4. Fiscal Year.** The official fiscal year shall be from January 1 through December 31.

**SECTION 5. Audit.** All statements of net assets and related statements of income, expenditures and fund capital shall be audited annually by an independent auditing firm.

**SECTION 6. Bonding.** All persons having signatory powers for the funds of the Society shall be bonded.

## ARTICLE VIII. Publications

SECTION 1. The official organs of the Society shall be the American Journal of Physiology, the Journal of Applied Physiology, Physiological Reviews, the Journal of Neurophysiology, The Physiologist, and such other publications as the Society may own. All publications shall be under the jurisdiction and management of the Publications Committee unless otherwise designated by the Council. The names of the journals and publications may be changed by the Council on recommendation from the Publications Committee and any publication may be dropped by Council on recommendation from the Publications Committee.

#### ARTICLE IX. Meetings

SECTION 1. Spring Meeting. A meeting of the Society for transacting business, electing officers and members, presenting communications, and related activities, shall ordinarily be held in the Spring of each year.

SECTION 2. Fall Meeting. A Fall meeting of the Society shall be held at a time and place determined by the Council for presenting communications, electing members, and for transacting business except for the election of officers and adoption of amendments to the Bylaws. Under exceptional circumstances Council may cancel such a meeting.

SECTION 3. Special Meetings. Special meetings of the Society or of the Council may be held at such times and places as the Council may determine.

SECTION 4. Quorum. At all business meetings of the Society fifty regular members shall constitute a quorum.

SECTION 5. Parliamentary Authority. The rules contained in Roberts Rules of Order, Revised shall govern the conduct of the business meetings of the Society in all cases to which they are applicable and in which they are not inconsistent with the Bylaws or special rules of order of the Society.

#### ARTICLE X. Society Affiliations

SECTION 1. The Society shall maintain membership in such organizations as determined by Council.

#### ARTICLE XI. Regulations

SECTION 1. General Prohibitions. Notwithstanding any provision of the Constitution or Bylaws which might be susceptible to contrary interpretation:

- a. The Society is organized and operated exclusively for scientific and educational purposes.
- b. No part of the net earnings of the Society shall or may under any circumstances inure to the benefit of any member or individuals.
- c. No substantial part of the activities of the Society shall consist of carrying on propaganda, or otherwise attempt to influence local, state or national legislation. (All activities of the Society shall be determined by Council). The Society shall not participate in, or intervene in (including the

- publishing or distributing of statements) any campaign on behalf of any candidate for public office.
- d. The Society shall not be organized or operated for profit.

**SECTION 2. Distribution on Dissolution.** Upon lawful dissolution of the Society and after payment of all just debts and obligations of the Society, Council shall distribute all remaining assets of the Society to one or more organizations selected by the Council which have been approved by the United States Internal Revenue Service as organizations formed and dedicated to exempt purposes.

## **ARTICLE XII. General**

**SECTION 1. Records.** All official records, archives and historical material shall be held in the Central Office in the custody of the Executive Secretary-Treasurer.

**SECTION 2. Procedures and Customs.** The Society shall maintain a current Operational Guide detailing the procedures and current customs of the Society operations as well as the duties and responsibilities of officers, committees, and major employees. The Operational Guide shall be maintained current by the Executive Secretary-Treasurer as determined by the Council.

## **ARTICLE XIII. Amendments**

**SECTION 1. Presentation.** Amendments to these Bylaws may be proposed in writing, by any regular member, to Council at any time up to three months in advance of the Spring meeting, or at a business meeting of the Society. Such proposed amendments must be presented in writing at the following Spring business meeting for action by the Society.

**SECTION 2. Adoption.** These Bylaws may be amended at any Spring business meeting of the Society by a two-thirds majority vote of the regular members present and voting.

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## BRIEF HISTORY OF THE SOCIETY


The American Physiological Society was founded at a meeting held Friday, December 30, 1887 in the physiological laboratory of the College of Physicians and Surgeons, New York. The invitations to attend the meeting and participate in the organization were sent out by three men - Henry Pickering Bowditch, Professor of Physiology, Harvard Medical School, Boston; Silas Weir Mitchell, Medical Practitioner, Philadelphia; Henry Newell Martin, Professor of Biology, Johns Hopkins University, Baltimore. Professor Martin was one of the original members of the British Physiological Society founded in 1876. The American Physiological Society was formed along similar lines. The purpose given in the Rules of the British Society and the Constitution of the American Society are practically identical, namely, to promote the advancement of physiology and facilitate personal intercourse among physiologists.

The illustration is a facsimile of the souvenir distributed at the celebration of the Fiftieth Anniversary of the Society held in Baltimore, April 1, 1938. It commemorates the three founders of the Society.

The original membership list of the American Physiological Society showed a great diversity of individual specialties yet all had sound basic training and a continuing interest in physiology. The broad spectrum of individual interest still characterizes the membership of APS today. The original 28 members and their chief interests were:


Beyer, H. G., M.D., Ph.D. - cardiovascular physiology  
Bowditch, H. P., M.D. - muscle physiology  
Chapman, H. C., M.D. - anatomy  
Chittenden, R. H., Ph.D. - physiological chemistry  
Curtis, J. G., M.D. - surgery  
Dalton, J. C., M.D. - reproductive physiology  
Donaldson, H. H., Ph.D. - neurophysiology  
Ellis, F. W., M.D. - ophthalmology  
Goodale, G. L., M.D. - plant physiology  
Hall, G. S., Ph.D. - psychology  
Hare, H. H., M.D. - pediatrics  
Howell, W. H., Ph.D. - blood coagulation  
Jastrow, J., Ph.D. - psychology  
Lombard, W. P., M.D. - neurophysiology  
Martin, H. N., M.D. - experimental biology  
Mills, T. W., M.D. - comparative physiology  
Minot, C. S., Sc.D. - embryology  
Mitchell, S. W., M.D. - neurology  
Osler, W., M.D. - clinician  
Ott, I., M.D. - neurophysiology  
Reichert, E. T., M.D. - pharmacology  
Sedgwick, W. T., Ph.D. - public health  
Sewall, H., Ph.D., M.D. - immunology  
Smith, R. M., M.D. - clinician  
Vaughan, V. C., Ph.D., M.D. - physiological chemistry  
Warren, J. W., M.D. - nerve-muscle physiology

**FOUNDERS**




**HARVARD**

DR. H. P. BOWDITCH




**OF THE AMERICAN**




**AMERICAN COLLEGE OF PHYSICIANS**


DR. S. WEIR MITCHELL



**PHYSIOLOGICAL**

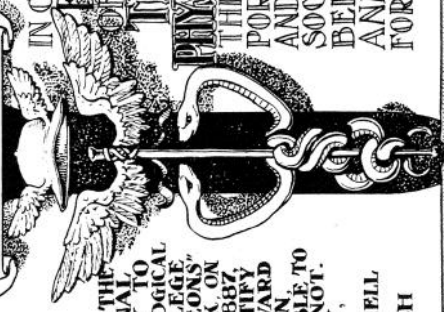


**PHYSIOLOGICAL SOCIETY**



**SOCIETY**

IN COMMEMORATION OF THE  
**FIFTIETH ANNIVERSARY**  
 OF THE FOUNDING OF  
**THE AMERICAN**  
**PHYSIOLOGICAL SOCIETY**



THIS MEMENTO WITH THE  
 PORTRAITS OF THE FOUNDERS  
 AND THE CALL FOR THE FIRST  
 SOCIETY MEETING, HAS  
 BEEN PREPARED FOR AN  
 ANNIVERSARY SOUVENIR  
 FOR THE FEDERATION.

YOU ARE INVITED TO  
 ATTEND A MEETING OF  
 PERSONS INTERESTED IN THE  
 FORMATION OF A NATIONAL  
 PHYSIOLOGICAL SOCIETY TO  
 BE HELD IN THE PHYSIOLOGICAL  
 LABORATORY OF THE "COLLEGE  
 OF PHYSICIANS AND SURGEONS"  
 437 W. 59TH ST. NEW YORK ON  
 FRIDAY, DECEMBER 30TH 1887  
 AT 10 A. M. PLEASE NOTIFY  
 DR. H. P. BOWDITCH, HARVARD  
 MEDICAL SCHOOL, BOSTON,  
 WHETHER YOU WILL BE ABLE TO  
 ATTEND THIS MEETING OR NOT.  
 YOURS TRULY,  
 S. WEIR MITCHELL  
 H. N. MARTIN  
 H. P. BOWDITCH

1887 ~ 1888

~ 1938 ~

Welch, H. W., M.D. - pathology  
Wood, H. C., M.D. - pharmacology

In the beginning the programs of the meetings covered the whole range of the medical sciences, experimental physiology, physiological chemistry, histology, pharmacology and pathology. It did not seem to be difficult for an average member to listen with profit to reports of work done outside his immediate bailiwick. But with the increase in number of scientific workers, and the growing specialization in problems and in technical procedures, divisions of interest became more apparent. The device of grouping papers on the program did not wholly satisfy the desire of specialists to get together over their own problems, and there arose a tendency to segment into groups.

The first major division of this kind to occur was the formation of a society of biochemists. At the 1906 annual meeting, Dr. Chittenden announced the fact of the organization of "The American Society of Biological Chemists," and expressed the hope that its relations with the Physiological Society would be most cordial. The two societies arranged to have their annual meetings together and acted in close affiliation on matters of common concern, until their final amalgamation in 1913 into the Federation.

Two years after the splitting off of the chemists the pharmacologists, at the December 1908 meeting, organized the "Society for Pharmacology and Experimental Therapeutics." While the Society of Biological Chemists and the Society for Pharmacology and Experimental Therapeutics may both be considered as buds from the parent stem of the Physiological Society, the fourth member of the biological quadrivium, the "American Society for Experimental Pathology" seems to have had more of an independent origin, although it was formed on the model of the Physiological Society and in part from its membership. When the other three societies had completed arrangements for the organization of the "Federation of American Societies for Experimental Biology" at the annual meeting in 1913, the newly formed Pathology Society was taken into the group. The development of these groups in this country took place through physiology which served in the beginning as a general designation for experimental work in biology and medicine, and in the process of their evolution the Physiological Society took a leading role. It is most fortunate that the separation which eventually took place, and which gave to each group its proper independence, was so arranged that a real physical and intellectual connection was maintained by the formation of a federation with a single place of meeting and a program in common. \*

Of more recent years at least two societies having their foundations

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\* By 1942 the Federation grew to include the American Institute of Nutrition (1940) and the American Association of Immunologists (1942). Each of the six constituent societies maintain their individuality but meet together once a year at an annual meeting conducted by the Federation.

in the American Physiological Society have been established - the "Society of General Physiologists," 1946 and the "Biophysical Society," 1958. There remains considerable overlap of memberships with the American Physiological Society.

There still remains a very high diversification of specific interests in the Physiological Society as witnessed by the formation of Ancillary Groups referred to later.

Since meritorious research work is the prime consideration for election to the American Physiological Society, it is obvious that the two most important activities of the Society are the organization of meetings at which the results of researches are presented and discussed, and the primary publication of the research contributions in physiology. Early in its existence the Society felt the need for a primary outlet for its research contributions. The first publication of the Society, the American Journal of Physiology, was started in 1897 and was financed by Dr. W. T. Porter, the first Editor. Dr. Porter in 1914 presented to the Society his copyright to the name of the Journal and transferred ownership with no recompense. Dr. D. R. Hooker took over as Editor and gradually made the Journal a sound financial enterprise. Upon Dr. Hooker's death Dr. M. O. Lee was appointed Editor in 1947.

As the Society grew and interests became more specialized more journals were added to the Society's group of publications. (See under Publications Committee).

## BEAUMONT AND APS HEADQUARTERS

The Society first set up central offices along with the Federation in 1947 at the National Academy of Sciences in Washington. Dr. M. O. Lee served as Executive Secretary of the Federation and also as Executive Secretary-Treasurer of the American Physiological Society. As the staff began to increase the combined offices were moved to Dupont Circle in Washington. By 1954 it was felt that the Federation and the Society should have their own building and home capable of expanding in future years. A site in the suburbs near the National Institutes of Health seemed desirable.

Through the particular efforts of Drs. M. O. Lee and W. F. Hamilton the 38 acre Hawley Estate in Bethesda, Maryland was found to be available for purchase. The Federation was definitely interested in the site but did not have the funds with which to purchase. The Board of Publication Trustees of the APS (now the Publications Committee, but then a semi-independent part of the APS) did have or could obtain the necessary funds. Accordingly the American Physiological Society purchased the property in March 1954. In order to make it possible for the Federation to then purchase and own the property the APS sold approximately 27 acres to a home developer. The remaining 11.4 acres were then sold to the Federation which along with APS took occupancy in August 1954.

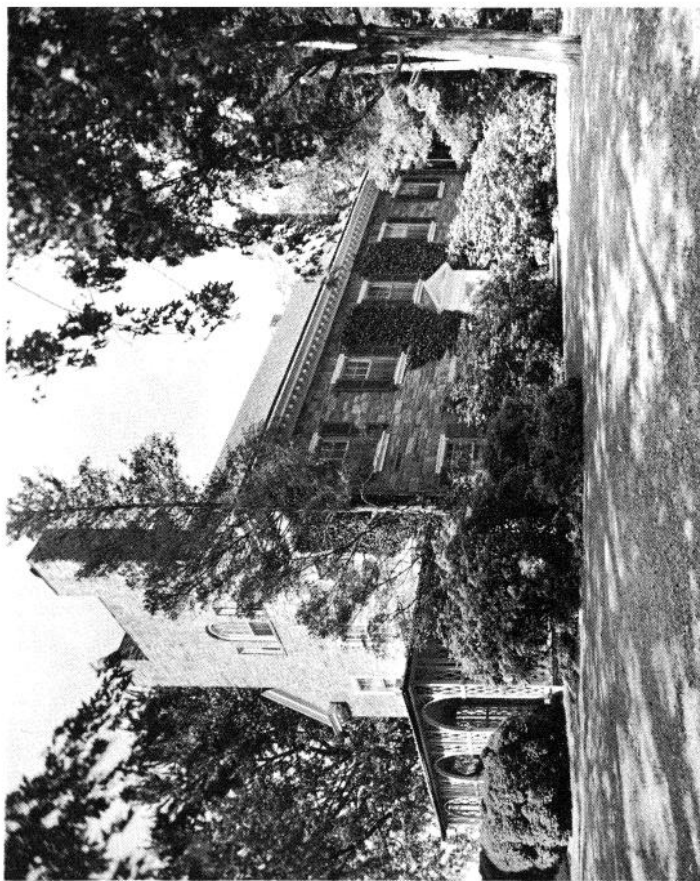
At the suggestion of Drs. Lee and Hamilton the house was named "Beaumont House" after the famous pioneer in the physiology and biochemistry of digestion. The house stands as a monument to this man who contributed so much in the early days of physiology in this country.

By 1956 the increased activities of the Federation and the American Physiological Society became too much for one Executive (Dr. Lee) to handle so the Society engaged Dr. R. G. Daggs as full time Executive Secretary-Treasurer. Dr. Lee remained Executive Director of the Federation and also Managing Editor for both the Federation and APS publications until his retirement in 1966.

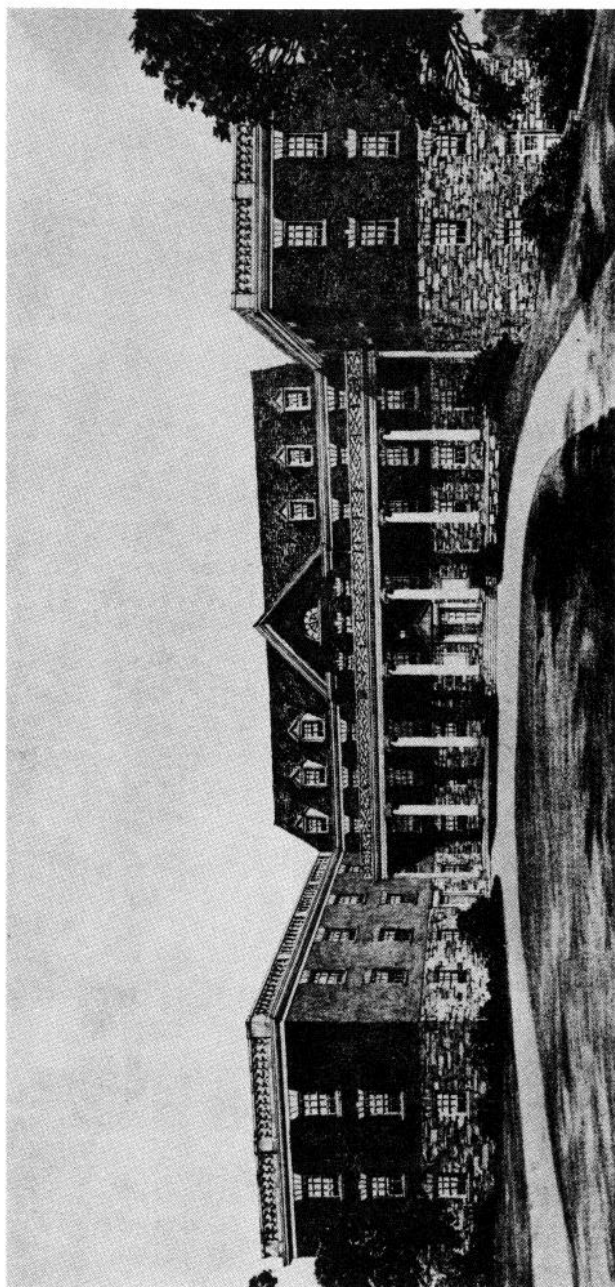
In 1961 two more societies of the Federation opened central offices in Beaumont House with full time Executive Secretaries - The American Society for Pharmacology and Experimental Therapeutics and the American Society of Biological Chemists. In 1965 both the American Institute of Nutrition and the American Society for Experimental Pathology established offices at Beaumont. The sixth society of the Federation, the American Association of Immunologists, opened its office at Beaumont in 1966. By this time the Federation had finally reached its objective of providing a home office for each of its constituent societies.

Early in 1961 it became apparent that the original Beaumont House (a converted private home built in 1929) could not house all of the activities of the Federation and the societies. The main portion of a new U-shaped building was completed and occupied in 1962. One wing was added and occupied in 1965 and the other wing in 1967.





BEAUMONT HOUSE



MILTON O. LEE BUILDING

Since the original house was named Beaumont House a name had to be found for the new building. In 1965 the Federation dedicated the new building and named it the Lee Building in honor of Milton O. Lee as recognition of his long and devoted service and leadership to the Federation. The American Physiological Society also honored Dr. Lee by commissioning the painting of his portrait which now hangs in the new quarters of the Society.



MILTON O. LEE PORTRAIT

The Society offices now occupy 24 rooms on the third floor of the Lee Building. All activities of the Society are carried on from these offices by a staff of 23 people.

## MEETINGS

Since one of the main purposes of the Society is to promote the increase in physiological knowledge it is evident that meetings be held where physiologists can present their recent research findings and discuss physiological problems. The first meeting of the Society was a special meeting held in Washington, D. C. in September 1888 in connection with the newly formed Triennial Congress of American Physicians and Surgeons. The first regular annual meeting of the Society was held in Philadelphia in December 1888. The Society continued its annual meetings in December through 1925 often meeting with the American Association for the Advancement of Science. In 1927 the annual meeting was changed to April and with few exceptions has remained in April ever since, and of recent years generally during the week containing April 15. The Society has had its Spring meeting with the Federation of American Societies for Experimental Biology meetings since the organization of the Federation in 1913.

### SPRING MEETING

Activities at the Spring meetings cover the following:

1. Meetings of Council and Committees
2. Two business meetings
3. Election of officers
4. Election of members
5. Presentation of papers, symposia, etc.
6. Thirty-minute introductory review talks preceding certain selected sessions
7. Teaching session
8. Meetings of Ancillary Groups, generally in the evenings

### FALL MEETING

By the middle 1940's the Federation meetings were becoming so large that it was difficult to schedule papers. Beginning in 1945 the Society discussed the possibility of holding a second annual meeting separate from the Federation in the hopes that a Fall meeting would drain off some of the papers and reduce the pressure of the Spring meeting but this effect has not been very evident. Even so the Fall meetings have been eminently successful particularly in providing a more relaxed atmosphere. The Fall meetings are generally held on university campuses where the ladies and children are welcome with a ladies program, tours to near by places of interest and of course the Society banquet. The Fall meetings were started in 1948 and are generally held the last part of August or early September.

Activities at the Fall meetings cover the following:

1. Meetings of Council and Committees
2. Refresher Course the first day
3. One business meeting
4. Election of members

5. Presentation of papers, symposia, etc.
6. Bowditch Lecture
7. Banquet and Past-President's Address

The arrangements and programming of the Fall meeting are handled by a Local Committee, with assistance from the Executive Secretary-Treasurer. The abstracts of papers presented, the Bowditch Lecture and the Past-President's address all appear in *The Physiologist*.

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#### APS MEETING CALENDAR

- 1968 Fall - International Physiological Congress, Washington, D. C.,  
August 25-30
- 1969 Spring - Atlantic City, N.J., April 13-18
- 1969 Fall - Davis, California, August 25-29
- 1970 Spring - Atlantic City, N.J., April 12-17
- 1970 Fall - Indiana Univ., Bloomington, Ind., August 30-September 3
- 1971 Spring - Chicago, Ill., April 12-17
- 1971 Fall - Univ. of Kansas, Kansas City, Kans.

## APS RELATIONS WITH OTHER ORGANIZATIONS

The American Physiological Society has formal relations with other organizations principally through APS appointed representatives to such organizations. Council makes these appointments. Reports back to Council are generally required.

### FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY

The American Physiological Society's primary affiliation is with FASEB. APS was a founding member of FASEB. The APS as well as the other constituent societies of FASEB has representation on various controlling bodies and committees of FASEB.

1. Federation Board - The President, President-Elect and Past President represent APS on this governing body.
2. Federation Executive Committee - working committee of the Board. APS has one representative.
3. Federation Public Affairs Committee - The Chairman of the APS Public Affairs Committee is the APS representative.
4. Federation Public Information Committee - APS has one appointed representative.
5. Federation Proceedings Editorial Board - APS has one appointed representative.
6. Federation Program Committee - APS has one appointed representative.

### AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

In the early days the APS occasionally met with the AAAS. Since 1924 APS had very little direct contact with AAAS but since 1952 APS generally has been represented on the AAAS program by sponsoring a symposium. APS has two appointed representatives on the governing board.

### AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES

In 1922 the Union of American Biological Sciences was established with the APS as a charter member. In 1947 the Union became the AIBS with APS as the first charter member. The APS never held meetings with the AIBS as did many other biological societies but continued to support AIBS because it represented biology as a whole. APS has one appointed representative on the governing board.

### NATIONAL RESEARCH COUNCIL

APS is represented on two of the Divisions - Division of Medical

Sciences and Division of Biology and Agriculture. Individual members of APS have been called on by NRC to serve on many ad hoc committees.

### U. S. NATIONAL COMMITTEES FOR INTERNATIONAL UNIONS

APS recommends persons to serve on the various national committees. Representatives are actually appointed by the National Academy of Sciences.

1. U. S. National Committee for International Union of Physiological Sciences - APS has four representatives. This is the major link between the APS and international physiology. The IUPS publishes a News Letter which is distributed to APS members. Two International Physiological Congresses have been held in the U. S. A. with APS playing a major part of the role as host - the Congress in Boston in 1929 and the XXIV Congress being held in Washington this year, 1968.
2. U. S. National Committee for International Union of Biological Sciences - APS has one representative.
3. U. S. National Committee for International Union of Pure and Applied Biophysics - APS has one representative.
4. U. S. National Committee for Engineering in Medicine and Biology - APS has one representative.

### NATIONAL SOCIETY FOR MEDICAL RESEARCH

APS supports this organization which has to do primarily with animal care and animal experimentation matters. APS has one appointed representative on their board.

### COUNCIL ON MEDICAL EDUCATION AND HOSPITALS OF THE AMERICAN MEDICAL ASSOCIATION

APS has one appointed representative on the Council.

### COUNCIL OF ACADEMIC SOCIETIES OF THE ASSOCIATION OF AMERICAN MEDICAL COLLEGES

APS has two appointed representatives on this Council.

### AMERICAN SOCIETY FOR INFORMATION SCIENCE

The organization was until recently the American Documentation Institute. APS has one appointed representative.

## MEMBERSHIP

The status of membership as of August 1, 1968 was as follows:

Active Members	3016
Retired Members	159
Honorary Members	18
Associate Members	255
	<hr/> 3448

According to the Bylaws regular membership in the Society is restricted to those persons who are residents of North America.

Honorary membership is for distinguished scientists of any country who have contributed to the advance of physiology. The present list of honorary members is as follows:

E. D. Adrian, England	G. Kato, Japan
F. Bremer, Belgium	Y. Kuno, Japan
J. C. Eccles, U. S. A.	G. Liljestrand, Sweden
R. Granit, Sweden	C. Monge, Peru
W. R. Hess, Switzerland	G. Moruzzi, Italy
A. V. Hill, England	F. J. W. Roughton, England
A. L. Hodgkin, England	H. H. Ussing, Denmark
B. A. Houssay, Argentina	K. von Frisch, Germany
A. Hurtado, Peru	H. H. Weber, Germany

Associate membership is also limited to those persons who are residents of North America. This category of membership is primarily for persons who are teachers of physiology and investigators who have not yet had the opportunity or time to satisfy the requirements for active membership. Associate members may later be proposed for active membership. Since associate members are not recognized by the Federation they are considered as non-members at the Spring meeting. Neither do they have voting privileges. They do have all privileges of active members at the Fall meeting, except voting privileges.

The Society also has a category of membership known as Sustaining Associates. These are individuals or organizations who have an interest in the advancement of biological investigation and wish to contribute to the activities of the Society. Sustaining Associates are invited to membership by the President with approval of Council.

### Analysis of Active Membership:

- 90% are from the U. S. A.
- Average age of active members is 49 years
- 49% hold Ph.D. degrees
- 37% hold M. D. degrees
- 12% hold both Ph. D. and M. D. degrees
- 2% hold other degrees, such as D. V. M., D. Sc., D. D. S., etc.



Of those that do research 25 per cent or more of their time have the following major interests:

Cardiovascular Physiology -	18%	of members
Neurophysiology -	16%	" "
Endocrinology -	12%	" "
Respiratory Physiology -	6%	" "
Environmental Physiology -	5%	" "
Cellular Physiology -	5%	" "
Renal Physiology -	4%	" "
Transport Physiology -	4%	" "
Muscle Physiology -	4%	" "
All other -	15%	" "

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## ANCILLARY GROUPS

The American Physiological Society has been very eager to represent all kinds of physiology, however, it does not have any official subdivisions or special interest sections like the Zoologists or the Psychologists. The Society provides facilities for special meetings or dinners at the time of the Spring meetings whenever requests have been received and has not discouraged these special interests in any way. In fact the Central Office of the Society has, in a few cases, unofficially handled their funds.

A list of the present special interest groups is as follows. As the years go by certain groups fade away and new ones spring up.

Adrenal Physiology Group	Neuroendocrine Discussion Group
Cardiac Muscle Society	Neurophysiology Group
Circulation Group	Parietal Cell Club
Coagulation Group	Physiology of Exercise Group
Comparative Physiology Group	Red Cell Club
Gastrointestinal Section	Renal Group
Histamine Club	Respiration Group
Liver Group	Temperature Regulation Group
Metabolic Discussion Group	

## PAST PRESIDENTS

The following pages show pictures of all the Presidents of the American Physiological Society through 1966. The President for 1967 is the current Past-President. The term for President was not limited to one term until 1948. From then on a President could serve only one year.

# PRESIDENTS OF THE AMERICAN PHYSIOLOGICAL SOCIETY



H.P. BOWDITCH  
1888 AND 1891-1895



S.W. MITCHELL  
1889-1890



R.H. CHITTENDEN  
1896-1904



W.H. HOWELL  
1905-1910



S.J. MELTZER  
1911-1913



W.B. CANNON  
1914-1916



F.S. LEE  
1917-1918



W.P. LOMBARD  
1919-1920



J.J.R. MACLEOD  
1921-1922



A.J. CARLSON  
1923-1925

# PRESIDENTS OF THE AMERICAN PHYSIOLOGICAL SOCIETY

164

THE PHYSIOLOGIST



J. ERLANGER  
1926 - 1929



W. J. MEEK  
1930 - 1932



A. B. LUCKHARDT  
1933 - 1934



C. W. GREENE  
1935



F. C. MANN  
1936 - 1937



W. E. GARREY  
1938 - 1939



W. T. PORTER  
HONORARY 1938



A. C. IVY  
1940 - 1941



P. BARD  
1942 - 1946



W. O. FENN  
1947

# PRESIDENTS OF THE AMERICAN PHYSIOLOGICAL SOCIETY



M.B. VISSCHER  
1948



C.J. WIGGERS  
1949



H.C. BAZETT  
1950 APRIL-JULY



D.B. DILL  
1950



R.W. GERARD  
1951



E.M. LANDIS  
1952



E.F. ADOLPH  
1953



H.E. ESSEY  
1954



W.F. HAMILTON  
1955



A.C. BURTON  
1956

# PRESIDENTS OF THE AMERICAN PHYSIOLOGICAL SOCIETY

166



L. N. KATZ  
1957



H. DAVIS  
1958



R. F. PITTS  
1959



J. H. COMROE, JR.  
1960



H. W. DAVENPORT  
1961



H. S. MAYERSON  
1962



H. RAHN  
1963



J. R. PAPPENHEIMER  
1964



J. M. BROOKHART  
1965



R. E. FORSTER  
1966

THE PHYSIOLOGIST

PRESENT OFFICERS  
1968-69



PRESIDENT

LOREN D. CARLSON. Born Davenport, Iowa, May 5, 1915; married 1941; four children. B.S. St. Ambrose College 1937; Ph.D. Univ. of Iowa 1941. Univ. of Iowa, Research Associate General Physiology 1941-42; U.S. Air Force, Major 1942-46; Univ. of Washington, Instructor of Zoology 1945, Assistant Professor of Physiology 1946-49, Director of General Education 1949-53, Associate Professor 1949-55, Professor 1955-60; Univ. of Kentucky Medical Center, Professor of Physiology and Biophysics 1960-66; Univ. of California at Davis, Chairman of Division of Sciences Basic to Medicine and Chairman of Department of Human Physiology 1966 - . Environmental and aviation physiology; respiration and metabolism.

American Physiological Society - Member 1945 - , Membership Committee 1961-65, Editorial Board American Journal of Physiology 1961-63, Handbook Editorial Committee 1967 - , Council 1966 - , President-Elect 1967, President 1968.

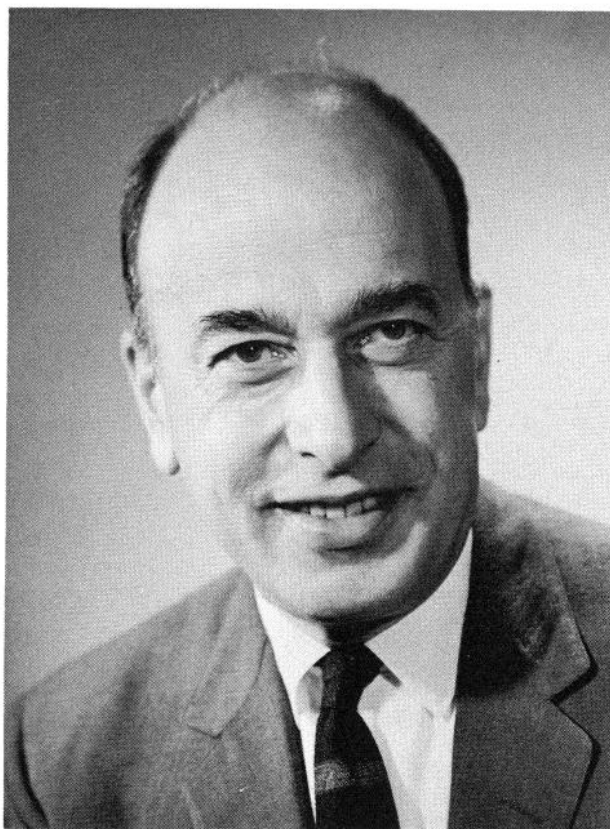




#### PRESIDENT-ELECT

C. LADD PROSSER. Born Avon, N.Y., May 12, 1907; married 1934; three children. A.B. Univ. of Rochester 1929; Ph.D. Johns Hopkins Univ. 1932. Harvard Medical School, and Cambridge Univ., England, Fellow in Physiology 1932-34; Clark Univ., Research Associate 1934-35, Assistant Professor Physiology 1935-38, Associate Professor 1938-39; Univ. of Illinois, Assistant Professor of Zoology 1939-43, Associate Professor 1943-49, Professor of Physiology 1949 - . Nerve and muscle physiology; comparative physiology; radiation biology; adaptation.

American Physiological Society - Member 1935 - , Education Committee 1956-60, Editorial Board American Journal of Physiology 1966 - , Council 1965 - , Handbook Editorial Committee 1967 - , President-Elect 1968.



## PAST-PRESIDENT

ROBERT W. BERLINER. Born New York, N.Y., March 10, 1915; married 1941; four children. B.S. Yale Univ. 1936; M.D. Columbia Univ. 1939. Presbyterian Hospital, N.Y., Intern 1939-41; Goldwater Memorial Hospital, Resident Physician 1942-43; New York Univ. Coll. of Medicine, Assistant in Medicine 1943-44, Instructor, 1944-47; Columbia College of Physicians and Surgeons, Assistant Professor of Medicine 1947-50; NIH, National Heart Institute, Chief Laboratory Kidney and Electrolyte Metabolism 1950-62; Director of Intramural Research 1954-68, Acting Director of Laboratories and Clinics NIH 1968 - . Renal physiology.

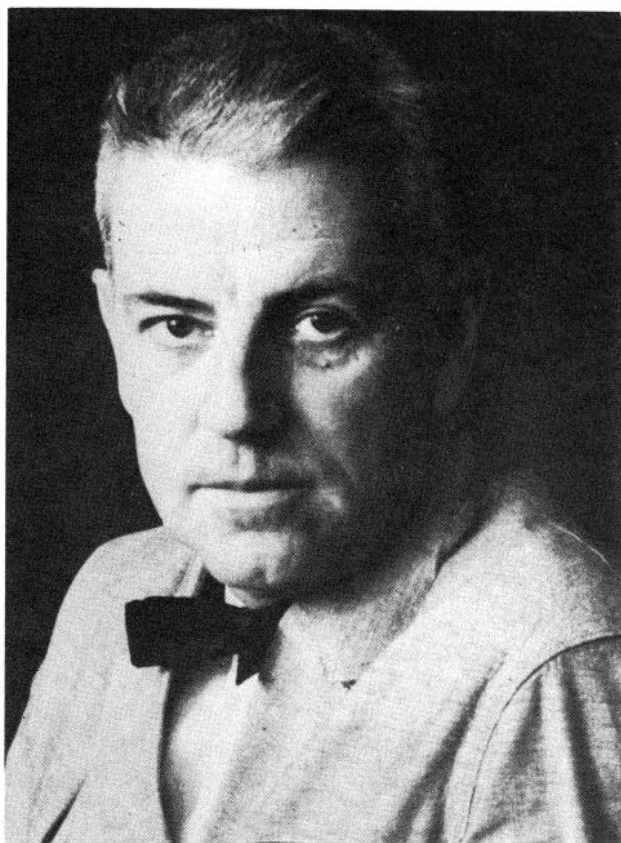
American Physiological Society - Member 1950 - , Editorial Board American Journal of Physiology 1956-61, Publications Committee 1961-66, Chairman Publications Committee 1963-66, Council 1965-68, President-Elect 1966, President 1967, Past-President 1968.



## COUNCILMAN

HARRY D. PATTON. Born Bentonville, Ark., March 10, 1918; married 1943; two children. B. A. Univ. of Arkansas 1939; Ph.D. Yale Univ. 1943; M.D. 1946. Johns Hopkins Univ., Instructor in Psychobiology 1946-47; Univ. of Washington School of Medicine, Assistant Professor of Physiology and Biophysics 1947-50, Associate Professor 1950-56, Professor 1956 - . Sympathetic nervous system; neuroendocrines; pyramidal tract.

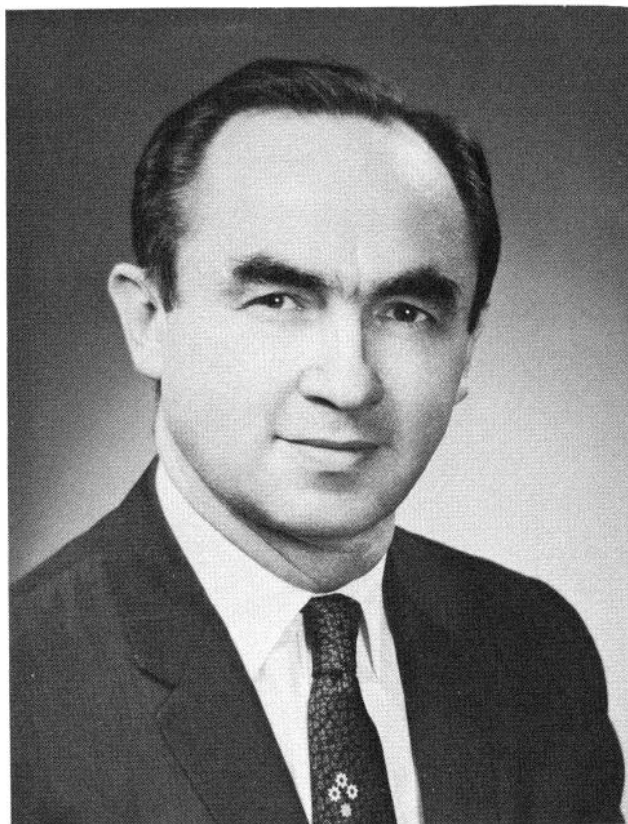
American Physiological Society - Member 1947 - , Editorial Board Journal of Neurophysiology 1961-64, Membership Committee 1964-67, Council 1965 - .



## COUNCILMAN

JOHN R. BROBECK. Born Steamboat Springs, Colo., April 12, 1914; married 1940; four children. B. S. Wheaton College 1936; L. L. D. (hon.) 1960; M. S. Northwestern Univ. 1937; Ph. D. 1939; M. D. Yale Univ. 1943. Yale Univ. School of Medicine, Instructor in Physiology 1943-45, Assistant Professor 1945-48, Associate Professor 1948-52; Univ. of Pennsylvania School of Medicine, Professor 1952 - . Neurophysiology; endocrinology and metabolism; regulation of food intake and energy exchange.

American Physiological Society - Member 1943 - , Education Committee 1960-63, Editorial Board American Journal of Physiology 1959-62, Chairman Editorial Board Physiological Reviews 1963 - , Council 1966 - .



## COUNCILMAN

A. CLIFFORD BARGER. Born Greenfield, Mass., February 1, 1917; married 1943; three children. A.B. Harvard Univ. 1939, M.D. 1943; Peter Bent Brigham Hospital, Medical House Officer 1943, Assistant Resident 1945, Assistant in Medicine 1946-53, Associate Staff 1953-58; U.S. Army 1944-45; Harvard Medical School, Research Fellow 1946-47, Instructor 1948-50, Associate 1950-53, Assistant Professor Physiology 1953-55, Associate Professor 1955-61, Professor 1961 - . Cardiovascular physiology; congestive failure; exercise.

American Physiological Society - Member 1949 - , Publications Committee 1961-63, Chairman Publications Committee 1963 and 1966 - , Council 1968 - .



## COUNCILMAN

DANIEL C. TOSTESON. Born Wauwatosa, Wis., February 5, 1925; married 1949; four children. B.S. Harvard Univ. 1944; M.D. 1949. Columbia Univ. College of Physicians and Surgeons, Intern 1949-51; Brookhaven National Labs., Research Fellow 1951-53; National Heart Institute, Lab. of Kidney and Electrolyte Metabolism 1953-55 and 1957-58; Univ. of Copenhagen, Research Fellow 1955-56; Cambridge Univ., Research Fellow 1956-57; Washington Univ. School of Medicine, Associate Professor of Physiology 1958-61; Duke Univ. School of Medicine, Professor of Physiology and Pharmacology 1961 - . Membrane physiology.

American Physiological Society - Member 1953 - , Education Committee 1960-64, Council 1968 - .



#### EXECUTIVE SECRETARY-TREASURER

RAY G. DAGGS. Born McKees Rocks, Pa., June 26, 1904; married 1929; two children. B.S. Bucknell Univ. 1926, D.Sc. (hon.) 1955; Ph.D. Univ. of Rochester 1930. Rochester School of Medicine, Instructor in Physiology 1930-33, Assistant Professor 1933-36; Univ. of Vermont College of Medicine, Associate Professor 1937-40, Head of Department of Physiology, 1941; U. S. Army, Colonel Sn. C. 1941-46; Army Medical Research Laboratory, Fort Knox, Director of Research 1946-56; American Physiological Society, Executive Secretary-Treasurer 1956 - . Environmental physiology; physiology of nutrition; scientific administration and education.

American Physiological Society - Member 1935 - , Editorial Board Journal of Applied Physiology 1951-54, Editor of The Physiologist 1957 - , Associate Editor of Physiological Reviews 1958 - , Director of Education Activities 1960 - .

## ACTIVITIES AND DUTIES OF OFFICERS AND COMMITTEES (How the Society Operates)

### COUNCIL

The Society is governed by an elected Council consisting of the President, the President-Elect, the immediate Past-President (each serving for a one-year term), and four additional elected Councilors, each having a four-year term. One Councilor retires each year. A four-year term Councilor or one who has served for three years is not eligible for immediate re-election, however he is eligible for election after the expiration of one year. A Councilor is eligible for election to the position of President-Elect. A Councilor elected to fill an unexpired term (of a Councilor elected President-Elect or of a Councilor deceased) is immediately eligible for election as a full term Councilor if he has not served more than two years. Elections take place at the Spring meeting and are effective July 1. The Chairmen of the Publications Committee and the Finance Committee along with the Executive Secretary-Treasurer are ex-officio members of Council without vote.

Council generally meets three times a year for a two day period in late February at the Central Office in Bethesda and just preceding the Spring and Fall meetings of the Society.

Council manages all Society affairs. Detail work is done by Committees and the Executive Secretary-Treasurer, all of whom are responsible to Council.

Council makes all appointments and designates Chairmen of Committees; receives reports from Committees; nominates those proposed for membership; receives the audited financial statements and approves the budget; determines the membership dues and the subscription prices of journals; determines the place of the Fall meeting; passes on all policy matters.

### PRESIDENT

The President chairs all sessions of Council and Business meetings of the Society; serves as a representative of the Society on the Federation Board; signs all legal documents, etc. for the Society or delegates signatory powers; selects the Bowditch lecturer; arranges tours for selected Councilman; invites, with Council approval, Sustaining Associates to affiliate with the Society; serves as ex-officio member of the Publications Committee.

### PRESIDENT-ELECT

The President-Elect serves for one year beginning July 1 following election at the Spring meeting. He becomes President July 1 of the following year.

The President-Elect serves as Vice-President of the Society and as official Secretary of Council; serves as a representative of the Society



on the Federation Board and reports to Council actions taken by the Federation Board; notifies candidates of election to membership; serves as ex-officio member of the Finance Committee.

#### PAST-PRESIDENT

The Past-President (President of the preceding year) serves as a voting member of Council for a term of one year; serves as a representative of the Society on the Federation Board; delivers the address at the Fall meeting; introduces the speaker and chairs the meeting for the Bowditch Lecture; represents Council on various committees and ad hoc groups when called upon to do so.

#### EXECUTIVE SECRETARY-TREASURER

The Executive Secretary-Treasurer assists in carrying on the functions of the Society, including receipt and disbursement of funds under direction of Council; is responsible for management of the Central Office; maintains files and archives of the Society; acts as Executive Director of Educational Programs under the general supervision of the Education Committee; is responsible for the Spring meeting program and arrangements; assists the Local Committee with the Fall meeting; is Editor of The Physiologist and Associate Editor of Physiological Reviews; serves as a non-voting member of the Publications Committee; maintains membership records and submits status reports to Council; certifies financial statements and budgets of the Society Operating Fund and Publications Operating Fund to the Finance Committee and serves as a non-voting member of the Finance Committee; as Treasurer has discretionary and signing powers for the Publication Contingency and Reserve Fund (This does not apply to withdrawals which require five signatures); as Treasurer serves as a non-voting member of the Perkins Memorial Fund Committee and the Porter Physiology Development Program Committee; performs any other duties delegated by Council.

#### PUBLICATIONS COMMITTEE

In addition to the three appointed members of the Committee the following serve as ex officio members without vote: - The President, Chairman of the Physiological Reviews Editorial Board; Chief Editor of the Journal of Neurophysiology; Chairman of the Handbook Committee; Publications Manager; Executive Secretary-Treasurer.

The Committee manages all publications of the Society under general policies determined by Council; appoints Editorial Boards, Section Editors, Associate Editors, etc; renders a detailed annual report to Council.

PUBLICATIONS MANAGER AND EXECUTIVE EDITOR

The Society maintains its own editorial and redactory services. The Publications Manager is appointed by Council on recommendation of the Publications Committee and is responsible to the Publications Committee and the Executive Secretary-Treasurer; is responsible for editorial management of all publications including publications correspondence, supervision of copy-editing, and printing arrangements.



Miss Sara F. Leslie  
Publications Manager and Executive Editor

## PUBLICATIONS

The Society edits and publishes all its journals, handbooks and special publications.

### A. American Journal of Physiology

The journal contains original research articles on subjects in practically all fields of physiology. It has been published continuously since 1897. It is published monthly and subscription service is on a calendar-year basis only.

### B. Physiological Reviews

The journal contains invited critical reviews of selected physiological topics with occasional reviews in biochemistry and nutrition. The review material is under the control of an American Editorial Board and a European Editorial Committee. Reviews are invited from leading scientists worldwide. It has been published continuously since 1921. It is published quarterly - January, April, July and October. Subscription service is on a calendar-year basis only. Occasional supplements on selected symposia topics are issued under separate covers. Reprints of reviews are available within two years of publication date.

### C. Journal of Neurophysiology

The journal contains original research articles on neurophysiology and closely related topics with emphasis on the experimental approach. It has been published continuously since 1938. It is published bimonthly and subscription service is on a calendar-year basis only.

### D. Journal of Applied Physiology

The journal contains original research articles with special emphasis given to environmental and respiratory physiology of man and animals. It has been published continuously since 1948. It is published monthly and subscription service is on a calendar-year basis only.

### E. The Physiologist

The Physiologist is essentially a "house organ" type of publication mainly for the Society membership. However, in addition to reports of Society activities, it contains articles and information of interest to all physiologists - such as the Bowditch Lectures; abstracts of papers presented at the Fall meeting; special introductory talks at the Spring meeting sessions; articles on education; etc. It has been published continuously since 1957. It is published quarterly - February, May, August and November. Subscription service is on a calendar-year

basis only. All members of the Society receive The Physiologist gratis. Reprints of the individual abstracts of the papers presented at the Fall meetings are available.

#### F. Handbooks of Physiology

The Society has enlisted the cooperation of physiological scientists over the world in attempting to provide a mechanism in this series for comprehensive but critical presentation of the state of knowledge in the various fields of functional biology. There are one or more volumes per section, each section dealing with a different sub-discipline of functional biology. Volumes appear as they are completed.

Section 1 - Neurophysiology. Three volumes.

Section 2 - Circulation. Three volumes.

Section 3 - Respiration. Two volumes.

Section 4 - Adaptation to Environment. One volume

Section 5 - Adipose Tissue. One volume.

Section 6 - Alimentary Canal. Five volumes.

Section 7 - Renal and Electrolyte Physiology. (in preparation)  
Two volumes.

Section 8 - Endocrinology. (in preparation) Six volumes.

#### G. Other Publications

From time to time the Society publishes special publications such as: - History of the American Physiological Society; Some Founders of Physiology; A Graphic Analysis of the Respiratory Gas Exchange; etc.

#### FINANCE COMMITTEE

In addition to the three appointed members of the Committee the following serve as ex-officio members without vote: - The President-Elect; Business Manager; Executive Secretary-Treasurer.

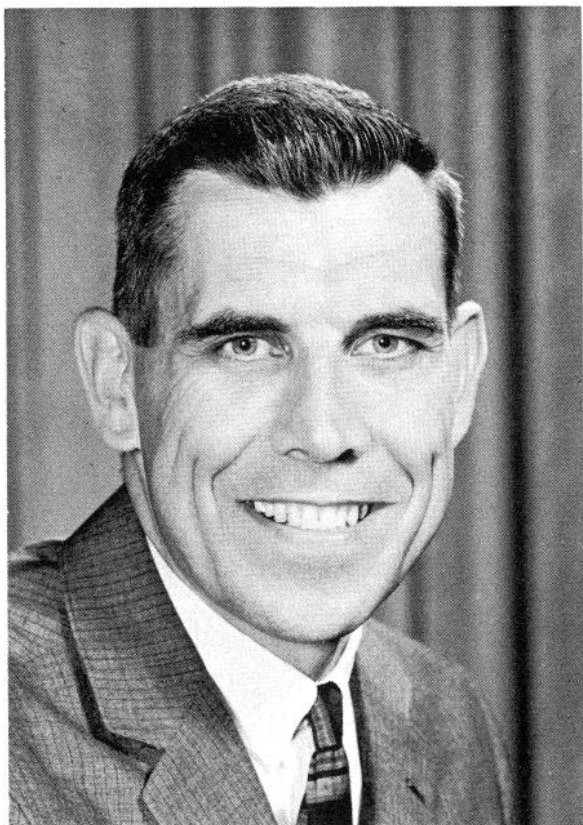
The Committee manages all financial affairs of the Society under general policies determined by Council; reviews official audits; coordinates all budget proposals submitted by the Treasurer and Business Manager; reviews salaries of permanent staff; recommends amounts and places of all investments; reviews disbursements and considers ways and means of securing adequate income.

The official fiscal year is from January 1 through December 31. Membership dues are from July 1 to July 1 and prorated to the fiscal year.

The Society maintains three major accounts as defined in the Bylaws.

BUSINESS MANAGER

The Society maintains its own Business Office under the supervision of the Business Manager. The Business Manager, appointed by Council on recommendation of the Finance Committee, is responsible to the Finance Committee and the Executive Secretary-Treasurer; is responsible for general management of all fiscal matters including billing, receipt of funds and all fiscal, tax and government reports; preparation of budgets and special reports to the Finance Committee through the Executive Secretary-Treasurer.



Mr. Walter A. Sonnenberg, C. P. A.  
Business Manager

### MEMBERSHIP COMMITTEE

The Committee receives and reviews all processed applications for membership that have been received in the Central Office. The Committee meets twice a year just preceding the Spring and Fall meetings to agree on recommendations regarding applications to be submitted to Council by the Chairman. Council makes nominations for membership which are sent to all regular members at least one month prior to being placed on the ballot for election at the next Business Meeting.

Approval for membership nomination generally includes intent to remain a resident of North America (U. S. and possessions, Canada and Mexico); independent contributions to physiological research as evidenced by publication in physiological primary research journals; evidence of major interest in physiological fields; evidence of interest in the activities of the American Physiological Society; detailed positive recommendations from two regular members of the Society.

### EDUCATION COMMITTEE

The Committee conducts such educational, teaching and recruitment programs as may be required, deemed advisable, or recommended by Council. Funds for special activities are generally obtained from grants to APS from various agencies, subject to approval by the Finance Committee and Council.

Present activities include the following: -

1. Organization of a Teaching Session for the Spring meeting. This involves a half-day session generally devoted to matters pertaining to the teaching of physiology.
2. Organization of a Refresher Course for the day before the Fall meeting. This involves a full-day session generally devoted to new and unique ways of teaching some particular phase of physiology including laboratory teaching techniques.
3. Publishes and distributes, free of charge, the following educational brochures: -
  - a. Consider Physiology - A career brochure detailing career training and opportunities in physiology. Primarily for high school students.
  - b. Choosing a Career - Details the times in the educational process when decisions must be made relative to courses in high school, college, graduate school and post-graduate training.
  - c. Physiology in Colleges and Graduate Schools - Details areas of training and requirements for the Ph.D. degree. Contains a table listing universities where specific training in sub-disciplines of physiology may be obtained.
  - d. Specialty Fliers - Details training requirements

and opportunities in the following sub-disciplines: - Medical Physiology; Comparative Physiology; Veterinary Physiology; Marine Physiology.

4. Publishes, for sale at cost, a loose leaf collection of Laboratory Experiments in General Physiology. It is a set of selected, tested experiments in the field of cellular and general physiology primarily designed for advanced undergraduate students. The set is not a systematic coverage of the various aspects of the field, but rather presents separate experiments from which a selection may be made by the teacher.
5. The Committee supplies education articles for The Physiologist.
6. In cooperation with the College of Physicians organizes and staffs a Course for Physicians every other year. This course presents subjects of a physiological nature that are of particular interest to practicing physicians.

Some past activities of the Committee were: -

1. Workshops for Teachers of College Physiology - Aimed at bringing together a diversified group of college teachers who would compare notes on teaching problems and materials.
2. Summer Traineeships - These enabled college teachers to spend summer periods in research laboratories to work with experienced physiologists and learn new techniques.
3. Visiting Scientist Program - Experienced physiologists and teachers were sent to colleges requesting assistance. Scientists conferred with the administration, teachers and students relative to specific scientific and teaching problems. The gap between the "high-powered researcher" and the "isolated small-college teacher" was lessened in many instances.

#### PROGRAM ADVISORY COMMITTEE

The Committee is composed of three members appointed by Council. The Committee organizes special sessions such as symposia and the thirty-minute introductory talks for the Spring meeting.

Programming of abstracts for presentation at the Spring meeting is done by the Executive Secretary-Treasurer and programming of all sessions at the Fall meeting is done by the Local Committee.

### RULES FOR PRESENTATION OF PAPERS

Spring Meeting. A regular member, retired member or honorary member may present orally or be co-author of not more than one scientific paper, except upon special invitation of Council. An associate member or a non-member may present orally one scientific paper only if the paper is co-authored by a regular member, retired member or honorary member. A person's name may appear only once. Special additional rules are invoked from time to time to limit the total number of orally presented papers.

Fall Meeting. A regular member, retired member, honorary member or associate member may present orally not more than one paper, except upon invitation of Council. In addition a regular member, retired member, honorary member, or associate member may be co-author of papers and sponsor non-member papers.

### PUBLIC AFFAIRS COMMITTEE

The Committee is composed of three members appointed by Council. The Chairman is appointed as the Society's representative on the Federation Public Affairs Committee.

The Committee deals with all matters pertaining to public affairs that affect physiologists; coordinates activities with the Federation Public Affairs Committee; deals with matters pertaining to animal legislation and advises Council of actions to be taken.

### PERKINS MEMORIAL FUND COMMITTEE

The Committee is composed of two Past-Presidents of the Society, two members of Council, and a member of the Perkins family. The Executive Secretary-Treasurer serves ex-officio without vote.

The Fund is supported by gifts in memory of John F. Perkins, Jr.

The general purpose of the Fund is to aid and encourage enterprises in physiology which have cultural as well as scientific merit as judged by Council.

The Committee supervises administration of the Fund and selects recipients. The Finance Committee supervises investment of the Fund.

Each application is to be made jointly by a visiting scientist and his host. Ordinarily the joint applicants will have made financial arrangements for the visiting scientist himself before applying to the Fund for family support. The application is to contain an account of these arrangements, together with a description of the proposed scientific work and a brief account of how the visitor intends to make use of the cultural benefits.



PORTER PHYSIOLOGY DEVELOPMENT PROGRAM COMMITTEE

The Committee is composed of seven members of the Society appointed by Council. The Executive Secretary-Treasurer serves ex-officio without vote.

The funds for the Program are provided by the Harvard Apparatus Company.

The general purpose of the Program is to stimulate and assist in the improvement of underdeveloped American departments of physiology in colleges and medical schools.

The Committee supervises administration of the funds; approves visiting scientists; approves teaching and training fellowships; recommends to Harvard Apparatus Company specific needs for laboratory and teaching equipment; councils on curriculum improvements.

SENIOR PHYSIOLOGISTS COMMITTEE

The Committee is composed of four Past-Presidents of the Society appointed by Council.

The Committee deals with all matters pertaining to older members who are retired; conducts an informal placement service for senior physiologists; submits articles on senior physiologists for publication in *The Physiologist*.

INTERNATIONAL PHYSIOLOGY COMMITTEE

The Committee is composed of the APS members of the U. S. National Committee for the International Union of Physiological Sciences. Council nominates to the National Academy of Sciences persons to act as APS representatives on the U. S. National Committee for IUPS. Arrangements are made so that the President of APS, in the year of an International Physiological Congress, will be nominated as an official representative of the U. S. A.

The Committee handles all matters pertaining to International Physiological affairs, on consultation with Council.

The Executive Secretary-Treasurer mails the IUPS Newsletter to all regular members of the Society.

## IUPS NOMENCLATURE COMMITTEE

The purpose of this committee is to define those scientific terms used in physiology, the meaning of which is either controversial or needs a more precise definition. Although the committee has made some progress it feels it needs the support and help of physiologists in general. The committee would like to receive suggestions about physiological words, terms, etc., the use of which need classification or better definition. Suggestions should include a brief description of what the word or term means to the respondent. There is a growing need for precise definitions of physiological terms particularly with respect to computer programming for documentation. The committee intends to publish their definitions on a world wide basis under the auspices of IUPS.

Suggestions should be sent to the Chairman of the Committee, Professor Hans Schaefer, Physiologisches Institut der Universitat, Schliessfach 1347, D 6900 Heidelberg, West Germany.

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