

show a healthy growth and development during the past year. Exchange lectureships between chapters have been very successful where they have been tried. Thirty-four representatives attended the convention and banquet the same evening, at which time Professor Paul S. Welch, of the University of Michigan, gave a very excellent discussion of the work and needs of European biological stations and compared them with similar stations in America. The officers for the year are as follows: *President*, Richard Hartshorne; *vice-president and secretary*, Sidney M. Caldwell; *treasurer*, C. E. Mickel; *editor*, L. H. Tiffany. The 1927 meeting will be held in Nashville contemporaneously with the meetings of the American Association for the Advancement of Science.

The Sigma Delta Epsilon Graduate Women's Scientific Fraternity held its fifth annual convention following a breakfast on Wednesday morning. An open breakfast meeting was arranged for Thursday morning. About fifty members were present, representing each of the seven chapters. The national officers elected for 1927 are: *President*, Julia T. Colpitts; *first vice-president*, Emma L. Fisk; *second vice-president*, Esther Griffith; *secretary*, Amy G. McKeel, Cornell University, Ithaca, New York; *treasurer*, Emma Fleer.—On Wednesday Dr. Christiana Smith spoke of the work of the Association to Aid Scientific Research Work by Women, to which Sigma Delta Epsilon is a contributor. This association offers \$2,000 to be awarded in April, 1928, to a woman who has carried on research work of distinction. For the breakfast on Thursday morning, invitations were extended to all women interested in science and over one hundred were present. The president gave a brief history of Sigma Delta Epsilon, which exists to unite women in friendship through science. Dr. Florence R. Sabin, honorary member of Sigma Delta Epsilon, then gave an inspiring talk on "The Blood Cells in Tuberculosis."

The Pi Mu Epsilon Mathematical Fraternity held its annual convention Monday afternoon, with an unusually large and enthusiastic attendance of delegates. The University of Pennsylvania chapter entertained all attending members from other chapters at a dinner Monday evening, at which Professor H. S. Everett, of Bucknell University, presided.

#### THE ORGANIZATION AND WORK OF THE AMERICAN ASSOCIATION

The American Association for the Advancement of Science aims to advance science in the New World in every feasible way. Booklets on the nature and work of the association and full information on all topics concerning it may be secured at any time from the

office of the permanent secretary, in the Smithsonian Institution Building, Washington, D. C. All who are in any way interested in the advancement of knowledge are invited to become members if they are not already enrolled.

#### OFFICERS OF THE ASSOCIATION FOR 1927

##### PRESIDENT

Arthur A. Noyes, California Institute of Technology, Pasadena, Calif.

##### RETIRING PRESIDENT

L. H. Bailey, 103 Sage Place, Ithaca, N. Y.

##### VICE-PRESIDENTS, RETIRING VICE-PRESIDENTS AND SECRETARIES OF THE SECTIONS

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Vice-President, Dunham Jackson, University of Minnesota, Minneapolis, Minn.

Retiring Vice-President, Edward V. Huntington, Harvard University, Cambridge, Mass.

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##### Section B (Physics):

Vice-President, A. H. Compton, University of Chicago, Chicago, Ill.

Retiring Vice-President, William Duane, Bio-Physical Laboratories, Harvard University, 695 Huntington Ave., Boston, Mass.

Secretary, A. L. Hughes, Washington University, St. Louis, Mo.

##### Section C (Chemistry):

Vice-President, Roger Adams, University of Illinois, Urbana, Ill.

Retiring Vice-President, Lauder W. Jones, Princeton University, Princeton, N. J.

Secretary, Gerhard Dietrichson, Massachusetts Institute of Technology, Cambridge, Mass.

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Vice-President, Walter S. Adams, Mt. Wilson Observatory, Pasadena, Calif.

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Vice-President, Charles Schuchert, Yale University, New Haven, Conn.

Retiring Vice-President, G. H. Ashley, State Capitol, Harrisburg, Pa.

Secretary, G. R. Mansfield, U. S. Geological Survey, Washington, D. C.

##### Section F (Zoological Sciences):

Vice-President, C. E. McClung, University of Pennsylvania, Philadelphia, Pa.

Retiring Vice-President, Winterton C. Curtis, University of Missouri, Columbia, Mo.

Secretary, Geo. T. Hargitt, Syracuse University, Syracuse, N. Y.

##### Section G (Botanical Sciences):

Vice-President, William Crocker, Boyce Thompson Institute for Plant Research, Yonkers, N. Y.

Retiring Vice-President, Benjamin M. Duggar, Missouri Botanical Garden, St. Louis, Mo.

Secretary, Sam F. Trelease, Columbia University, New York, N. Y.

*Section H (Anthropology):*

Vice-President, R. J. Terry, Washington University, St. Louis, Mo.

Retiring Vice-President, R. Bennett Bean, University of Virginia, University, Va.

Secretary, Fay Cooper Cole, University of Chicago, Chicago, Ill.

*Section I (Psychology):*

Vice-President, Knight Dunlap, Johns Hopkins University, Baltimore, Md.

Retiring Vice-President, Margaret Floy Washburn, Vassar College, Poughkeepsie, N. Y.

Secretary, Frank N. Freeman, University of Chicago, Chicago, Ill.

*Section K (Social and Economic Sciences):*

Vice-President, W. S. Leathers, Vanderbilt University, Nashville, Tenn.

Retiring Vice-President, Joseph H. Willits, University of Pennsylvania, Philadelphia, Pa.

Secretary, F. L. Hoffman, Babson Institute, Babson Park, Mass. (Dr. Hoffman has resigned and no successor has been elected.)

*Section L (Historical and Philological Sciences):*

Vice-President, Harry Elmer Barnes, Smith College, Northampton, Mass.

Retiring Vice-President, W. Carl Rufus, University of Michigan, Ann Arbor, Mich.

Secretary, Frederick E. Brasch, Library of Congress, Washington, D. C.

*Section M (Engineering):*

Vice-President, A. N. Talbot, University of Illinois, Urbana, Ill.

Retiring Vice-President, C. R. Richards, Lehigh University, Bethlehem, Pa.

Secretary, N. H. Heck, U. S. Coast and Geodetic Survey, Washington, D. C.

*Section N (Medical Sciences):*

Vice-President, G. Canby Robinson, Vanderbilt University, Nashville, Tenn.

Retiring Vice-President, Rufus I. Cole, Rockefeller Hospital, New York, N. Y.

Secretary, A. J. Goldforb, College of the City of New York, New York, N. Y.

*Section O (Agriculture):*

Vice-President, L. E. Call, Kansas State Agricultural College, Manhattan, Kans.

Retiring Vice-President, C. F. Marbut, U. S. Bureau of Soils, Washington, D. C.

Secretary, P. E. Brown, Iowa State College, Ames, Iowa.

*Section Q (Education):*

Vice-President, Arthur I. Gates, Teachers College, Columbia University, New York, N. Y.

Retiring Vice-President, Melvin E. Haggerty, University of Minnesota, Minneapolis, Minn.

Secretary, A. S. Barr, University of Wisconsin, Madison, Wis.

PERMANENT SECRETARY

Burton E. Livingston, Johns Hopkins University, Baltimore, Md. (Association mail address: Smithsonian Institution Building, Washington, D. C.)

GENERAL SECRETARY

W. J. Humphreys, U. S. Weather Bureau, Washington, D. C.

TREASURER

John L. Wirt, Carnegie Institution of Washington, Washington, D. C.

SECRETARY OF THE COUNCIL AND PROGRAM EDITOR

Sam F. Trelease, Columbia University, New York, N. Y.

EXECUTIVE ASSISTANT

Sam Woodley, Smithsonian Institution Building, Washington, D. C.

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NEWS MANAGER

Austin H. Clark, U. S. National Museum, Washington, D. C.

MANAGER OF EXHIBITION

H. S. Kimberly, Smithsonian Institution Building, Washington, D. C.

MEMBERS OF THE EXECUTIVE COMMITTEE OF THE COUNCIL<sup>4</sup>

J. McKeen Cattell (1930), *chairman*, Garrison-on-Hudson, N. Y.

A. A. Noyes, president of the association (1927), California Institute of Technology, Pasadena, Calif.

Burton E. Livingston, permanent Secretary (1928), Smithsonian Institution Building, Washington, D. C.

W. J. Humphreys, general secretary (1928), U. S. Weather Bureau, Washington, D. C.

Herman L. Fairchild (1927), University of Rochester, Rochester, N. Y.

Vernon Kellogg (1928), National Research Council, Washington, D. C.

F. R. Moulton (1929), University of Chicago, Chicago, Ill.

W. A. Noyes (1927), University of Illinois, Urbana, Ill.

M. I. Pupin (1929), Columbia University, New York, N. Y.

Henry B. Ward (1930), University of Illinois, Urbana, Ill.

Edwin B. Wilson (1928), Harvard School of Public Health, Boston Mass.

MEMBERS OF THE COMMITTEE ON GRANTS FOR RESEARCH<sup>4</sup>

Aleš Hrdlička (1927) (for Psychology, Anthropology, Education, Economics), *chairman*, U. S. National Museum, Washington, D. C.

B. M. Davis (1927) (for Botany), University of Michigan, Ann Arbor, Mich.

<sup>4</sup> The number in parentheses denotes the year at the end of which the member's term of office is to expire.

Nevin M. Fenneman (1928) (for Geology), University of Cincinnati, Cincinnati, Ohio.

Joseph Erlanger (1928) (for Physiology), Washington University School of Medicine, St. Louis, Mo.

L. G. Hoxton (1929) (for Physics), University of Virginia, University, Va.

Vernon Kellogg (1929) (for Zoology), National Research Council, Washington, D. C.

W. Lash Miller (1930) (for Chemistry), 8 Hawthorne Ave, Toronto, Ont., Canada.

Oswald Veblen (1930) (for Mathematics), Princeton University, Princeton, N. J.

(The permanent secretary acts as secretary of the Committee on Grants.)

#### GENERAL OFFICERS OF THE COMMITTEE OF ONE HUNDRED ON SCIENTIFIC RESEARCH

Chairman, A. A. Noyes, president of the Association, California Institute of Technology, Pasadena, Calif.

Secretary, Rodney H. True, University of Pennsylvania, Philadelphia, Pa.

#### Other Officers

Lists of the members of the section committees and of other committees may be secured from the permanent secretary's office at any time, as well as other information regarding the organization of the association.

#### FUTURE ANNUAL MEETINGS

The American Association meets annually in convocation week, the dates for the meetings being determined by a rule adopted by the council. When New Year's day falls on Thursday, Friday or Saturday the meeting period is the week (Monday to Saturday, inclusive) in which New Year's day occurs. When New Year's day falls on Sunday the meeting period is the preceding week. And when New Year's day falls on Monday, Tuesday or Wednesday the meeting opens on December 27 and continues through January 2. Plans of individuals and societies may thus be made years in advance. It requires just twenty-eight years to complete the cycle of dates and days. Dates and meeting places for the next six annual meetings are shown below.

1927-28 (Nashville): Monday, December 26 to Saturday, December 31, 1927.

1928-29 (New York): Thursday, December 28, 1928, to Wednesday, January 2, 1929.

1929-30 (probably Des Moines): Friday, December 27, 1929, to Thursday, January 2, 1930.

1930-31 (probably Cleveland): Monday, December 29, 1930, to Saturday, January 3, 1931.

1931-32 (probably New Orleans): Monday, December 28, 1931, to Saturday, January 2, 1932.

1932-33 (Chicago): Monday, December 26, to Saturday, December 31, 1932.

#### SPECIAL NOTES AND NOTICES

(1) This issue of SCIENCE is sent to all members whose dues have been paid for 1926, whether they have regularly received this journal or *The Scientific Monthly*. For those who have not yet paid their dues for 1927, this is the last issue to be sent until payment shall have been made. Annual dues for the current year were due last October 1. The journal has been continued through January to the few who are still in arrears, with the hope that they might find it convenient to pay before the end of the month and with the thought that they would appreciate receiving these reports of the fifth Philadelphia meeting.

(2) The next meeting of the association will be at Nashville, Tenn., from Monday, December 26, to Saturday, December 31, 1927. That will be an especially interesting meeting in many ways. The attendance will probably be relatively small, with relatively few meetings of the associated societies and a consequent degree of freedom from complexity not possible in the case of the larger meetings. Announcements about the Nashville meeting will appear in SCIENCE from time to time, especially in the issue of December 2.

(3) The association needs more members and better support. Members are asked to secure new annual, life and sustaining members, and also donors, who may be willing to make contributions to the general endowment or for special purposes. Annual members are asked to become life members as soon as possible. All members of associated organizations are asked to join the association if they are not already enrolled. Any member of any affiliated organization is now allowed to become a member of the association without paying the usual entrance fee of five dollars. Write to the permanent secretary for more information.

(4) Members of the association each receive with membership a subscription to either SCIENCE or *The Scientific Monthly*. Sample copies may be had on request, from the permanent secretary's office.

(5) Members who take SCIENCE may receive *The Scientific Monthly* by making an additional payment of three dollars a year. Those who take the *Scientific Monthly* may receive SCIENCE by making a like additional payment. In other words, a member may have annual membership and both journals by paying eight dollars per year. This is according to a new arrangement adopted at the fifth Philadelphia meeting.

(6) Any member may receive the *Science News Letter* at the special reduced price of three dollars a year.

(7) The total enrollment of the association was 14,635 on January 10. On that date there were 10,790 paid-up annual members, 3 living sustaining members, 407 living life members and 23 living emeritus members. Altogether, there were 11,223 members in good standing. One hundred and thirty-five new members joined at the Philadelphia meeting.