

osteologist (curator of osteology in the Peabody Museum of Yale University); Albert H. Hardy, chief assistant; C. F. Westerberg, assistant topographer; H. S. Arnold, M.D., medical adviser; Philip A. Means, assistant in archeology; L. M. Kirkpatrick, secretary. The surgeon has not yet been named.

HIRAM BINGHAM,
Director

THE COMMITTEE OF ONE HUNDRED ON
SCIENTIFIC RESEARCH OF THE AMER-
ICAN ASSOCIATION FOR THE
ADVANCEMENT OF
SCIENCE

THIS committee, authorized by the council of the association and appointed at and after the Atlanta meeting by President Wilson and President Eliot with the advice of the committee of policy, met at the Cosmos Club, Washington, on the afternoon of April 20, 1914. Mr. Pickering was in the chair, and the following members were present:

Messrs. C. L. Alsberg, E. W. Brown, J. McK. Cattell, C. B. Davenport, K. E. Guthe, George E. Hale, Ross G. Harrison, L. O. Howard, C. S. Howe, William H. Howell, W. J. Humphreys, William W. Keen, C. Kenneth Mees, George A. Miller, E. L. Nichols, Arthur A. Noyes, Henry F. Osborn, E. C. Pickering, Ira Remsen, Frank Schlesinger, Elihu Thomson, O. H. Tittmann, Thomas L. Watson, Arthur G. Webster, William M. Wheeler and R. S. Woodward.

The membership of the committee was completed by election, and there was a long and important discussion on scientific research in America and the means by which it can be advanced by the committee. Among the questions fully discussed were (1) the use of research funds and the establishment of a central bureau under the auspices of the association, the National Academy or the Smithsonian Institution; (2) research work in educational institutions, the extent to which it is supported and should be regarded as the function of the institution and its professors and instructors; (3) the research work of industrial laboratories and its relation to the universities; (4) the selection of men in univer-

sities competent to undertake research work and the preparation that should be given to them, and (5) the fuller recognition and better opportunities that should be given to those who have unusual qualifications for scientific research. It was agreed that the principal work of the committee should be entrusted to sub-committees. The whole committee will meet at Philadelphia on the afternoon of Monday, December 28, 1914, at the hotel headquarters of the American Association.

Sub-committees were authorized in each of the five directions above noted. The three last-mentioned topics were emphasized, respectively, by Mr. C. Kenneth Mees, Mr. Ernest W. Brown and Mr. Theodore W. Richards, and a sub-committee on each of the subjects will be formed with their advice. The committees named are:

Executive Committee: E. C. Pickering, *Chairman*, Charles D. Walcott, William H. Welch, Edmund B. Wilson, J. McKeen Cattell, *Secretary*.

Sub-committee on Research Funds: Charles S. Minot, *Chairman*, Simon Flexner, E. C. Pickering, R. S. Woodward, Charles R. Cross, *Secretary*.

Sub-committee on Research in Educational Institutions: Edward L. Nichols, *Chairman*, Edwin G. Conklin, Arthur A. Noyes, John M. Coulter, J. McKeen Cattell, *Secretary*.

The full membership of the Committee of One Hundred is as follows:

Eliot, Charles W., president of the association, president emeritus of Harvard University, *Chairman*.

Pickering, E. C., director of the Harvard College Observatory, *Chairman of the Executive Committee*.

Adams, Frank D., professor of geology, McGill University.

Alsberg, C. L., chief of the Bureau of Chemistry, U. S. Department of Agriculture.

Ames, J. S., professor of physics, Johns Hopkins University.

Angell, J. R., professor of psychology, University of Chicago.

Baldwin, S. E., professor of law in Yale University and governor of Connecticut.

Bancroft, W. D., professor of physical chemistry, Cornell University.

Bessey, Charles E., professor of botany, University of Nebraska.

- Boas, Franz, professor of anthropology, Columbia University.
- Britton, N. L., director of the New York Botanical Garden.
- Brown, Ernest W., professor of mathematics, Yale University.
- Campbell, Douglas H., professor of botany, Stanford University.
- Campbell, W. W., director of Lick Observatory.
- Chamberlin, T. C., professor of geology, University of Chicago.
- Chittenden, R. H., professor of physiological chemistry, Yale University.
- Cole, Alfred D., professor of physics, Ohio State University.
- Conklin, Edwin G., professor of zoology, Princeton University.
- Cottrell, F. G., professor of physical chemistry, University of California.
- Coulter, John M., professor of botany, University of Chicago.
- Councilman, W. T., professor of pathology, Harvard University.
- Cross, Charles R., professor of physics, Massachusetts Institute of Technology.
- Davenport, C. B., director of the Station for Experimental Evolution, Carnegie Institution.
- Davis, William M., emeritus professor of geology, Harvard University.
- Day, Arthur L., director of the Geophysical Laboratory, Carnegie Institution.
- Dewey, John, professor of philosophy, Columbia University.
- Donaldson, H. H., professor of neurology, Wistar Institute of Anatomy.
- Fairchild, H. L., professor of geology, Rochester University.
- Farlow, W. G., professor of cryptogamic botany, Harvard University.
- Fisher, Irving, professor of economics, Yale University.
- Flexner, Simon, director of the laboratories, Rockefeller Institute for Medical Research.
- Franklin, Edward C., professor of organic chemistry, Stanford University.
- Gill, Theodore, professor of zoology, George Washington University.
- Goodale, George L., emeritus professor of botany, Harvard University.
- Guthe, Karl E., professor of physics, University of Michigan.
- Hale, George E., director of Mount Wilson Solar Observatory, Carnegie Institution.
- Harrison, Ross G., professor of comparative anatomy, Yale University.
- Hayford, John F., director of the College of Engineering, Northwestern University.
- Holmes, Joseph A., chief of the Bureau of Mines.
- Howard, L. O., chief of the Bureau of Entomology.
- Howe, Charles S., president of the Case School of Applied Science.
- Howell, William H., professor of physiology, The Johns Hopkins University.
- Humphreys, W. J., professor of meteorology, U. S. Weather Bureau.
- Hunt, Reid, professor of pharmacology, Harvard University.
- Jordan, David Starr, president of Stanford University.
- Keen, William W., emeritus professor of surgery, Jefferson Medical College, president of the American Philosophical Society.
- Kemp, James F., professor of geology, Columbia University.
- Leuschner, Armin O., professor of astronomy, University of California.
- Lillie, Frank R., professor of embryology, University of Chicago.
- Loeb, Jacques, head of department of experimental biology, Rockefeller Institute for Medical Research.
- MacDougal, D. T., director of the department of botanical research, Carnegie Institution.
- MacLaurin, R. C., president of the Massachusetts Institute of Technology.
- McMurrich, J. Playfair, professor of anatomy, University of Toronto.
- Mall, Franklin P., professor of anatomy, Johns Hopkins University.
- Marvin, C. F., chief of the U. S. Weather Bureau.
- Mees, C., Kenneth, Eastman Kodak Company, Rochester, N. Y.
- Mendenhall, T. C., president emeritus, Worcester Polytechnic Institute.
- Michelson, A. A., professor of physics, University of Chicago.
- Miller, G. A., professor of mathematics, University of Illinois.
- Millikan, R. A., professor of physics, University of Chicago.
- Minot, Charles S., professor of comparative anatomy, Harvard Medical School.
- Moore, E. H., professor of mathematics, University of Chicago.
- Moore, George T., director of the Missouri Botanical Garden.

- Morgan, T. H., professor of experimental zoology, Columbia University.
- Morley, Edward W., emeritus professor of chemistry, Western Reserve University.
- Morse, Edward S., director, Peabody Academy of Science.
- Moulton, Forest R., professor of astronomy, University of Chicago.
- Neal, Herbert V., professor of biology, Tufts College.
- Nichols, Edward L., professor of physics, Cornell University.
- Noyes, Arthur A., director of the research laboratory of physical chemistry, Massachusetts Institute of Technology.
- Noyes, W. A., professor of chemistry, University of Illinois.
- Osborn, Henry F., president of the American Museum of Natural History, research professor of zoology, Columbia University.
- Pearce, R. M., professor of research medicine, University of Pennsylvania.
- Putnam, E. W., professor emeritus of anthropology, Harvard University.
- Remsen, Ira, professor of chemistry, Johns Hopkins University.
- Richards, Theodore W., professor of chemistry, Harvard University.
- Rosa, Edward B., chief physicist, Bureau of Standards.
- Schlesinger, Frank, director of the Allegheny Observatory.
- Sedgwick, William T., professor of biology, Massachusetts Institute of Technology.
- Smith, E. F., provost of the University of Pennsylvania.
- Smith, G. Otis, director of the U. S. Geological Survey.
- Smith, Hugh M., U. S. commissioner of fisheries.
- Smith, Theobald, professor of comparative pathology, Harvard University.
- Stieglitz, Julius, professor of analytical chemistry, University of Chicago.
- Stiles, Ch. Wardell, zoologist, U. S. Public Health Service.
- Stratton, Samuel W., director of the Bureau of Standards.
- Thomson, Elihu, Thomson-Houston and General Electric Companies.
- Titchener, Edward B., professor of psychology, Cornell University.
- Tittmann, Otto H., chief of the U. S. Coast and Geodetic Survey.
- Van Hise, Charles R., president of the University of Wisconsin.
- Walcott, Charles D., secretary of the Smithsonian Institution.
- Ward, Henry B., professor of zoology, University of Illinois.
- Watson, Thomas L., professor of economic geology, University of Virginia, and director of the Virginia Geological Survey.
- Webster, Arthur G., professor of physics, Clark University.
- Welch, William H., professor of pathology, Johns Hopkins University, president of the National Academy of Sciences.
- Wheeler, William M., professor of economic entomology, Harvard University.
- Whitney, Willis R., director of the research laboratory, General Electric Company.
- Wilson, Edmund B., professor of zoology, Columbia University.
- Woodward, Robert S., president of the Carnegie Institution of Washington.
- Cattell, J. McKeen, professor of psychology, Columbia University, *Secretary*.

SCIENTIFIC NOTES AND NEWS

DR. WOLDEMAR VOIGT, professor of theoretical physics at Göttingen, will next year be the visiting professor from Germany to Harvard University.

ON the recommendation of the council and of the special committee on the Hayden Award the Academy of Natural Sciences of Philadelphia has this year conferred the memorial gold medal on Henry Fairfield Osborn in recognition of his distinguished work in vertebrate paleontology.

DR. SIMON FLEXNER, director of the laboratories of the Rockefeller Institute for Medical Research, has received notice through the French ambassador in Washington that the cross of chevalier of the legion of honor has been conferred upon him by the president of the French Republic. This honor has been bestowed in recognition of the services which Dr. Flexner has rendered to medical science through his own discoveries and through his administration of the Rockefeller Institute. Special mention is made in the award of the assistance given to France at the time of the epidemic of cerebro-spinal meningitis, which prevailed in 1909, by sending to the Pasteur