

portance if true, but serious doubts have been cast upon their accuracy so that they have not been at all generally accepted.

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(To be concluded)

THE COMMITTEE OF ONE HUNDRED ON SCIENTIFIC RESEARCH OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE committee held its fourth meeting at the Hotel Belmont, New York City, convening shortly after two o'clock on the afternoon of December 26, 1916. Mr. Pickering was in the chair and others recorded as present were:

Raymond F. Bacon, Franz Boas, N. L. Britton, Alfred H. Brooks, Ernest W. Brown, Walter B. Cannon, J. J. Carty, J. McK. Cattell, C. R. Cross, Chas. B. Davenport, W. M. Davis, Henry H. Donaldson, H. L. Fairchild, Irving Hardesty, G. Ross Harrison, L. O. Howard, Ales Hrdlicka, W. J. Humphreys, Edward Kasner, A. E. Kennelly, Irving Langmuir, Berthold Laufer, Frederic S. Lee, Jacques Loeb, D. T. MacDougal, J. C. Merriam, G. A. Miller, T. H. Morgan, H. V. Neal, Edw. L. Nichols, A. A. Noyes, Richard M. Pearce, M. I. Pupin, Jos. W. Richards, F. K. Richtmyer, Peyton Rous, H. N. Russell, Frank Schlesinger, Geo. Otis Smith, J. Stieglitz, Chas. R. Stockard, E. L. Thorndike, A. M. Tozzer, Charles R. Van Hise, John B. Watson, A. G. Webster, David White, W. R. Whitney, Edmund B. Wilson, W. M. Wheeler, R. M. Yerkes.

After introductory remarks by the chairman, the secretary reported that, since the organization of the committee at Atlanta four years ago, it had lost by death: Charles E. Bessey, professor of botany, University of Nebraska; Theodore Gill, professor of zoology, George Washington University; Karl E. Guthe, professor of physics, University of Michigan; Joseph A. Holmes, chief of the Bureau of Mines, Washington, D. C.; Charles S. Minot, professor of comparative anatomy, Harvard Medical School, and F. W. Putnam, professor emeritus of anthropology, Harvard University. There had been added to the committee: Raymond F. Bacon, director of the Mellon

Institute for Industrial Research, the University of Pittsburgh; W. B. Cannon, professor of physiology, Harvard Medical School, and John C. Merriam, professor of paleontology, the University of California.

Since the meeting last year at Columbus the following subcommittees in different sciences had been appointed:

Mathematics: G. A. Miller, *Chairman*, Edward Kasner, E. H. Moore, W. F. Osgood, E. B. Van Vleck.

Astronomy: Edward C. Pickering, *Chairman*, E. W. Brown, E. B. Frost, H. N. Russell, F. Schlesinger.

Physics: Arthur G. Webster, *Chairman*, C. E. Mendenhall, Ernest Merritt, R. A. Millikan, M. I. Pupin.

Chemistry: Julius Stieglitz, *Chairman*, I. Langmuir, G. N. Lewis, W. A. Noyes, T. W. Richards. *Engineering:* A. E. Kennelly, *Chairman*, J. W. Richards, A. Sauveur, A. N. Talbot, C. C. Thomas.

Geology and Geography: Wm. M. Davis, *Chairman*, Alfred H. Brooks, L. C. Glenn, C. K. Leith, Bailey Willis.

Botany: George T. Moore, *Chairman*, D. H. Campbell, R. A. Harper, L. R. Jones, B. E. Livingston.

Zoology: Edwin G. Conklin, *Chairman*, F. R. Lillie, T. H. Morgan, G. H. Parker, Jacob Reighard.

Anatomy: Ross G. Harrison, *Chairman*, F. P. Mall, C. R. Stockard, C. M. Jackson, Irving Hardesty.

Pathology: Richard M. Pearce, *Chairman*, Theodore C. Janeway, Eugene L. Opie, Peyton Rous, H. Gideon Wells.

Physiology: W. B. Cannon, *Chairman*, Joseph Erlanger, Theodore Hough, Frederic S. Lee, Walter J. Meek.

Psychology: J. McKeen Cattell, *Chairman*, C. E. Seashore, E. L. Thorndike, John B. Watson, Robert M. Yerkes.

Anthropology: Franz Boas, *Chairman*, A. Hrdlicka, Alfred L. Kroeber, Berthold Laufer, Alfred M. Tozzer.

Reports were presented by the chairmen of nearly all the subcommittees. The report of the subcommittee on industrial research, presented by Mr. Bacon, was a special order, and by invitation was discussed by Mr. J. J. Carty, chairman of a committee of similar scope of the National Research Council and by Mr. F. K. Richtmyer, secretary of a corresponding committee of the American Physical Society.

This report, which was further discussed by several members, was printed in the issue of SCIENCE for January 5.

Other reports were presented, as follows:

Research on the Pacific Coast: Mr. Merriam.
 Research Funds: Mr. Cross.
 The Training of Students for Research: Mr. Brown.
 Mathematics: Mr. Miller.
 Astronomy: Mr. Pickering.
 Physics: Mr. Webster.
 Chemistry: Mr. Stieglitz.
 Engineering: Mr. Kennelly.
 Geology and Geography: Mr. Davis.
 Zoology: Mr. Conklin.
 Anatomy: Mr. Harrison.
 Pathology: Mr. Pearce.
 Physiology: Mr. Cannon.
 Psychology: Mr. Cattell.
 Anthropology: Mr. Boas.

The reports of the chairmen of the subcommittees were in most cases preliminary. They were discussed by various members. Those containing definite results or recommendations will be printed.

It was reported to the committee that, at the request of the National Research Council, the Committee on Policy of the American Association for the Advancement of Science had authorized the appointment by the president of the association of a committee on cooperation to include himself. The other members appointed by the president were: Mr. Nichols, chairman of the Committee on Policy, and Mr. Howard, permanent secretary of the association. Mr. Nichols and Mr. Howard had met in New York with Mr. Noyes and Mr. Conklin, representing the National Research Council, and took the following action:

The Committee on Cooperation recommends (1) that the Committee of One Hundred on Scientific Research of the American Association for the Advancement of Science cooperate with the National Research Council in those research movements in which both organizations are interested and especially in order to avoid duplication of effort that might arise from individual action of the two groups of committees which have already been appointed in the different sciences; (2) that the Committee of One Hundred, of the Association, cooperate with the National Academy of Sciences and the national scientific societies in the forma-

tion of single committees in the various branches of science, with the understanding that the present members of the association committees will become members of these committees of the National Research Council.

On motion of Mr. Noyes, this action was approved, except the final clause "with the understanding that the present members of the association committees will become members of these committees of the National Research Council." Mr. Noyes moved that:

In order to effect the cooperation provided by the preceding vote, the Committee of One Hundred on Research designate through its chairman members of the association to serve as members of the research committees of the National Research Council devoted to the various branches of science, with the understanding that those committees will consist of members designated in equal or approximately equal numbers by the association, the National Academy of Sciences, and the national scientific society representing the branch of research involved.

After discussion this motion was carried.

On motion of Mr. Boas, a subcommittee was authorized on cooperation between municipalities and incorporated institutions engaged in research.

The committee adjourned shortly after five o'clock to meet at two o'clock on the afternoon of the first day of the next annual meeting of the association, which will be on December 28, at Pittsburgh, Pa. J. McKEEN CATTELL,

Secretary

SCIENTIFIC EVENTS

CONGRESS ON MEDICAL EDUCATION, PUBLIC HEALTH AND MEDICAL LICENSURE

THE next Congress on Medical Education, Public Health and Medical Licensure, participated in by the Councils on Medical Education and on Health and Public Instruction of the American Medical Association, the Federation of State Medical Boards of the United States and the Association of American Medical Colleges, will be held at the Congress Hotel, Chicago, on February 5 and 6, 1917. According to the *Journal* of the American Medical Association the program of Monday morning, February 5, will be on medical education. The program follows: