

Stanford University, was again chosen a director from the sixth district.

The following were elected councillors-at-large: Edward Mallinckrodt, Jr., vice-president of the Mallinckrodt Chemical Works, St. Louis; Professor Harry N. Holmes, head of the department of chemistry in Oberlin College; Treat B. Johnson, professor of organic chemistry at Yale University.

Balloting for the fourth councillor resulted in a tie between William J. Hale, director of organic chemical research, Dow Chemical Company, Midland, Mich., and Joel H. Hildebrand, professor of chemistry in the University of California. The tie will be broken by vote of the society's council at the meeting in St. Louis early in April.

The election of officers of the professional divisions of the society was also announced.

DIVISION OF INDUSTRIAL AND ENGINEERING CHEMISTRY—R. J. McKay, New York, *chairman*; R. E. Wilson, Whiting, Ind., *vice-chairman*; E. M. Billings, Rochester, N. Y., *secretary-treasurer*.

PAINT AND VARNISH DIVISION—W. T. Pearce, Fargo, N. D., *chairman*; P. E. Marling, Dayton, Ohio, *vice-chairman*; E. W. Boughton, New York, *secretary-treasurer*.

DIVISION OF AGRICULTURAL AND FOOD CHEMISTRY—F. C. Blanck, Washington, *chairman*; R. C. Roark, Washington, *vice-chairman*; C. S. Brinton, Philadelphia, *secretary*.

DIVISION OF BIOLOGICAL CHEMISTRY—P. E. Howe, Washington, *chairman*; M. X. Sullivan, Washington, *secretary*.

DIVISION OF CELLULOSE CHEMISTRY—L. E. Wise, Syracuse, N. Y., *chairman*; J. L. Parsons, Erie, Pa., *vice-chairman*.

DIVISION OF CHEMICAL EDUCATION—B. S. Hopkins, Urbana, Ill., *chairman*; H. R. Smith, Chicago, *vice-chairman*; R. A. Baker, Syracuse, N. Y., *secretary*; J. L. Wood, St. Louis, *assistant secretary*; E. M. Billings, Rochester, N. Y., *treasurer*.

FERTILIZER DIVISION—E. W. Magruder, Norfolk, Va., *chairman*; W. H. Ross, Washington, *vice-chairman*; H. C. Moore, Chicago, *secretary*.

DIVISION OF HISTORY OF CHEMISTRY—L. C. Newell, Boston, *chairman*; T. L. Davis, Cambridge, Mass., *secretary*.

DYE DIVISION—M. L. Crossley, Bound Brook, N. J., *chairman*; E. B. Bolton, Wilmington, Del., *vice-chairman*; H. T. Herrick, Washington, *secretary*.

ORGANIC DIVISION—W. L. Evans, Columbus, Ohio, *chairman*; F. C. Whitmore, Evanston, Ill., *secretary*.

DIVISION OF GAS AND FUEL CHEMISTRY—A. C. Fieldner, Pittsburgh, *chairman*; S. P. Burke, New York, *vice-chairman*; O. O. Malleis, Pittsburgh, *secretary-treasurer*.

DIVISION OF MEDICINAL CHEMISTRY—A. W. Dox, Detroit, *chairman*; F. Fenger, Chicago, *vice-chairman*; A. E. Osterberg, Rochester, Minn., *secretary*.

PETROLEUM DIVISION—J. B. Hill, Philadelphia, *chairman*; F. W. Padgett, University of Oklahoma, *vice-chairman*; C. L. Johnson, Kansas City, *secretary-treasurer*.

SUGAR DIVISION—F. J. Bates, Washington, *chairman*; F. W. Zerban, New York, *secretary-treasurer*.

DIVISION OF WATER, SEWAGE AND SANITATION CHEMISTRY—S. E. Coburn, Boston, *chairman*; W. D. Collins, Washington, *secretary*.

RUBBER DIVISION—H. L. Fisher, New York, *chairman*; A. H. Smith, Akron, Ohio, *vice-chairman*; H. E. Simmons, Akron, Ohio, *secretary-treasurer*.

DIVISION OF COLLOID CHEMISTRY—H. B. Weiser, Houston, Texas, *chairman*; F. E. Bartell, University of Michigan, *secretary*.

OFFICERS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

A FULL account of the Nashville meeting of the American Association for the Advancement of Science by the permanent secretary will be printed in the issues of SCIENCE for January 27 and February 3. Officers were elected as follows:

President

Henry Fairfield Osborn, president of the American Museum of Natural History.



Vice-presidents and Chairmen of the Sections

A—Mathematics: R. C. Archibald, Brown University.

B—Physics: P. W. Bridgman, Harvard University.

C—Chemistry: C. E. K. Mees, Eastman Kodak Company.

D—Astronomy: J. S. Plaskett, Dominion Astrophysical Observatory, Victoria, B. C.

E—Geology and Geography: Frank Leverett, University of Michigan.

F—Zoological Sciences: M. F. Guyer, University of Wisconsin.

G—Botanical Sciences: C. E. Allen, University of Wisconsin.

H—Anthropology: Fay-Cooper Cole, University of Chicago.

I—Psychology: H. C. Warren, Princeton University.

M—Engineering: R. L. Sackett, Pennsylvania State College.

N—Medical Sciences: A. J. Goldforb, College of the City of New York.

O—Agriculture: C. A. Mooers, University of Tennessee.

Q—Education: Truman L. Kelley, Leland Stanford University.

Secretaries of Sections

Sect. A (Math.): C. N. Moore, University of Cincinnati.

Sect. N (Med.): H. Austin, University of Pennsylvania.

Sect. H (Anthrop.): C. H. Danforth, Stanford University.

Members of the Council

A. H. Compton, University of Chicago.

Austin H. Clark, Smithsonian Institution.

Members of the Executive Committee

John Johnston, U. S. Steel Corporation.
David R. Curtiss, Northwestern University.

Committee on Grants

Karl Kellerman, Bureau of Plant Industry.
W. S. Adams, Mount Wilson Observatory.

Board of Trustees of Science Service

J. McKeen Cattell.

Finance Committee

A. L. Day (reelected).

SCIENTIFIC NOTES AND NEWS

DR. H. J. MULLER, professor of zoology at the University of Texas, has been awarded the \$1,000 prize of the American Association for the Advancement of Science for his paper on "The Effects of X-radiation on Genes and Chromosomes," read at the Nashville meeting.

At the meeting of the Geological Society of America held in Cleveland from December 29 to 31 the Penrose gold medal of the society was conferred upon Professor Emeritus T. C. Chamberlin, of the University of Chicago, in recognition of his distinguished contributions to geology.

SIR ERNEST RUTHERFORD, Cavendish professor of experimental physics and director of the Cavendish Laboratory at the University of Cambridge, has been elected a foreign associate member of the French Academy of Sciences. He was already a corresponding member of the academy.

THE council of the British Physical Society has awarded the Duddell medal for 1927 to Dr. F. E. Smith, F.R.S., director of scientific research at the Admiralty. This medal is given annually for work in connection with the development of scientific instruments or of materials used in their manufacture.

C. TATE REGAN, director of the British Museum (Natural History), and Dr. F. A. Bather, keeper of the department of geology in the museum, have been elected as honorary members of the Yorkshire Philosophical Society.

PROFESSOR P. KOEBE, of Leipzig, has been elected a member of the Saxon Academy of Sciences.

THE King of Belgium will confer upon M. Brillard, the president of the technical commission of the Union Internationale de Radiophonie, the decoration of Chevalier of the Order of Leopold in recognition of his services to the cause of radio broadcasting.

PROFESSOR EDWIN G. BORING, director of the psy-

chological laboratory at Harvard University, has been elected president of the American Psychological Association.

DR. MARSHALL H. SAVILLE, professor of American archeology at Columbia University, was elected president of the American Anthropological Association at the annual meeting held at Andover, Mass.

MISS ALICE C. EVENS, of the U. S. Hygienic Laboratory, Washington, was elected president of the Society of American Bacteriologists at the recent annual meeting in Rochester. Miss Evens is at present confined to a hospital with Malta fever, acquired during experimentation on the disease.

DR. C. MACFIE CAMPBELL, professor of psychiatry in the Harvard Medical School, has been reelected president of the Massachusetts Society for Mental Hygiene.

At the annual meeting of the Royal Academy of Medicine in Ireland, Sir William Taylor was elected president, and Louis L. Cassidy, the secretary for foreign correspondence.

At its annual meeting in Chicago in November, the American Society of Animal Production elected E. W. Sheets, chief of the division of animal husbandry of the U. S. Bureau of Animal Industry, *president*. H. T. Gramlich, head of the department of animal husbandry, University of Nebraska, was made *vice-president*, and James R. Wiley, professor of animal husbandry, Purdue University, *secretary-treasurer*.

PRESIDENT COOLIDGE has approved senate joint resolution no. 48 and senate joint resolution no. 49, providing for the filling of two vacancies on the board of regents of the Smithsonian Institution by the appointment of the Hon. Charles Evans Hughes and Dr. John C. Merriam.

DR. WILLIAM J. HALE, director of organic research of the Dow Chemical Company and past-chairman of the division of chemistry and chemical technology of the National Research Council, has been appointed chairman of a committee of the division to foster cooperative researches between industries and academic institutions. This cooperative plan was instituted by Dr. Hale while he was chairman of the division.

THE newly-organized economic committee of the League of Nations has appointed a subcommittee to prepare a program of inquiry into the economic employment of the riches of the sea. This committee will consist of Sir Sydney Chapman (Great Britain), M. Serruys (France), M. Jahn (Norway) and Mr. Ito (Japan). The main object of this inquiry is to decide whether and under what conditions, and in