

1929 (New York)—Thursday, December 27, 1928, to Wednesday, January 2, 1929.

1930 (undecided)—Friday, December 27, 1929, to Thursday, January 2, 1930.

1931 (undecided)—Monday, December 29, 1930, to Saturday, January 3, 1931.

1932 (undecided)—Monday, December 28, 1931, to Saturday, January 2, 1932.

1933 (Chicago)—Monday, December 26, to Saturday, December 31, 1932.

It is hoped that many societies not generally meeting with the Association will meet with it at the larger, four-yearly meetings, at Washington, New York and Chicago.

SPECIAL NOTICES TO MEMBERS AND PROSPECTIVE MEMBERS OF THE A. A. A. S.

1. The present issue of *SCIENCE* is sent to all persons whose names are on the roll of the association, whether they regularly receive this journal or the *Scientific Monthly*. For those who have not yet paid their annual dues for 1924, this is the last issue to be sent until after the payment shall have been made. Annual dues were due last October 1. The journal has been continued through January to those few who are still in arrears, with the hope that they would find it convenient to pay before the end of the month. It was also thought that those who are still in arrears would appreciate receiving this special issue with its account of the recent Cincinnati meeting.

2. Owing to the early date (August 6) set for the opening of the Toronto meeting of the British Association for the Advancement of Science, it has been decided to hold no meeting of the American Association next summer. Members of the American Association have been cordially invited to participate in the meeting of the British Association. Further announcements about the meeting will appear in *SCIENCE* from time to time. The American Association has expressed its desire to help in every feasible way to make the Toronto meeting of its sister association a success.

3. The next meeting of the American Association will be the Washington meeting, from Monday, December 29, 1924, to Saturday, January 3, 1925. This will be one of the larger four-yearly meetings and it will doubtless be very well attended and exceptionally representative of American science. Preparations for the Washington meeting are already under way and announcements about it will appear in *SCIENCE* from time to time. The preliminary announcement is to be mailed to all members about December 1.

4. *Prospective new members* who are members of any affiliated society are allowed to join the association during 1924 without payment of the usual entrance fee, without reference to when they may have

become members of the affiliated society. This is a special offer, in celebration of the seventy-fifth anniversary. It is hoped that large numbers of new members may be enrolled this year.

5. All members of the association are requested and urged to make special efforts this year to secure new members, thus benefiting the new members and at the same time increasing the strength of the association and making it possible for its work to be correspondingly widened.

BURTON E. LIVINGSTON,
Permanent Secretary

SCIENTIFIC NOTES AND NEWS

At a meeting of the Board of Trustees of the Marine Biological Laboratory, Wood's Hole, held recently in New York City, it was announced that gifts amounting to \$1,400,000 had been received for building and endowment purposes for the laboratory. Of this sum \$500,000 was given by the Rockefeller Foundation, \$100,000 by the Carnegie Corporation, \$400,000 by Mr. John D. Rockefeller, Jr., and \$400,000, representing the capitalization of a five per cent. basis of a hitherto annual contribution of \$20,000 by the Friendship Fund, Inc., which was founded by Mr. Charles R. Crane. Plans prepared by Mr. Charles A. Coolidge, architect, have been studied in detail during the last two years and the building committee has been authorized to begin operations as soon as practicable.

PROFESSOR NIELS BOHR, of Copenhagen, has received \$40,000 from the Rockefeller International Education Board, which he may use to modernize his laboratory and to buy new instruments.

PROFESSOR FLOYD K. RICHTMYER, of the department of physics of Cornell University, was elected to succeed Professor Henry B. Ward, of the University of Illinois, as national president of Sigma Xi at its recent annual meeting in Cincinnati.

DR. T. WAYLAND VAUGHAN, of the U. S. Geological Survey, left Washington on January 20, to take up his work as director of the Scripps Institute of Biological Research at La Jolla.

HERBERT E. GREGORY, professor of geology in Yale University, returns to Honolulu on February 1 to resume his duties as director of Bernice P. Bishop Museum.

PROFESSORS BOHR (Copenhagen), Einstein (Berlin) and von Kries (Freiburg) have been elected foreign members of the Göttingen Academy of Sciences.

BRITISH New Year honors include, as we learn from *Nature*, the advancement of Sir Donald Macalister, president of the General Medical Council, to be a

baronet. Knighthoods have been conferred on Dr. Byrom Bramwell, for services to medicine; Dr. H. L. Ferguson, dean of the Faculty of Medicine, University of Otago, Dunedin, New Zealand; Mr. T. H. Mottram, H.M., chief inspector of mines, and Mr. H. Murray, assistant forestry commissioner.

DR. W. BOTTING HEMSLEY, keeper of the herbarium and library of the Royal Botanic Gardens, Kew, from 1899 to 1908, well known by his work on insular floras and on the floras of China and of Central America, attained his eightieth birthday on December 29. He was elected a fellow of the Royal Society in 1889.

THE council of the Geological Society of London has made the following awards: Wollaston Medal, Arthur Smith Woodward; Murchison Medal, Walcott Gibson; Lyell Medal, William Wickham King; Murchison Fund, Leonard Frank Spath; Wollaston Fund, Cecil Edgar Tilley; Lyell Fund, J. W. Tutcher and Hugh Hamshaw Thomas.

EX-GOVERNOR JAMES HARTNESS, of Vermont, a former president of the American Society of Mechanical Engineers, was elected to succeed Dean M. E. Cooley, of the University of Michigan, as president of the American Engineering Council of the Federated American Engineering Societies at a meeting of the council on January 10 and 11. Vice-presidents elected were: L. P. Alford, of New York, and Charles R. Gow, of Boston. Other vice-presidents are: Calvert Townley, of New York, and Gardner S. Williams, of Ann Arbor, Mich. Dr. H. E. Howe, of Washington, was re-elected treasurer, and L. W. Wallace, of Washington, was again chosen executive secretary.

AT the January meeting of the Louisiana Section of the American Chemical Society, Dr. S. A. Mahood, of Tulane University, was elected president; Dr. J. F. Brewster, of the Audubon Sugar Experiment Station, vice-president, and Mr. H. R. Stevens, of the Crescent City Carbonate Company, secretary-treasurer.

AT the annual meeting of the Society of American Foresters, held recently in Baltimore, Professor Walter Mulford, of the University of California, was elected president, with Professor R. T. Fisher, of Harvard University, vice-president, R. V. Reynolds, of Washington, D. C., secretary, and F. W. Besley, of Baltimore, treasurer.

OFFICERS of the Association of Official Agricultural Chemists for 1924 elected at the Washington, D. C., meeting are as follows: *President*, R. E. Doolittle, Bureau of Chemistry, Chicago; *vice-president*, C. A. Browne, Bureau of Chemistry, Washington, D. C.; *secretary-treasurer*, W. W. Skinner, Bureau of Chemistry, Washington, D. C. Dr. H. W. Wiley is *honorary president*.

DR. FREDERICK L. HOFFMAN, consulting statistician of the Prudential Insurance Company of America, has been elected a corresponding member of the Cancer Research Society of France.

DR. JOHN E. TEEPLE, treasurer of the American Chemical Society and past president of the Chemists' Club, was honored at a dinner given by some fifty of his friends at the Chemists' Club, New York, on the eve of his fiftieth birthday, January 3. Fitting remembrances were presented to him by the hosts of the occasion.

A. P. SPOONER has been appointed head of the metallurgical department of the Bethlehem Steel Co., Bethlehem, Pa., succeeding Robert M. Bird, who has resigned after a connection with the company of about 22 years.

DR. W. F. FARAGHER, of the Mellon Institute of Industrial Research, has been appointed an assistant director.

PROFESSOR EDGAR JAMES SWIFT, head of the department of psychology in Washington University, has been appointed a member of the consultant staff of the St. Louis Psychiatric Clinic.

FREDERICK F. MURRAY, of the Hardwood Manufacturers Institute of Chicago, has been elected chairman of the executive committee of the forest products division of The American Society of Mechanical Engineers for 1924. The forest products division is working in cooperation with organizations in the interest of conservation and reforestation of our timber lands.

PROFESSOR WILLIAM M. SMITH, professor of mathematics at Lafayette College, has been granted leave of absence during the second semester. He expects to spend most of this time at the University of Cambridge.

FOREIGN public health officials now in the United States are Dr. Steven Weis, sectional councilor, Ministry of Health, Hungary; Professor H. N. Neeb, retired chief of the Military Medical Service in the Dutch East Indies, and professor of hygiene in the University of Dandoeng, Java. Dr. Weis is making a three months' visit in America as the guest of the International Health Board of the Rockefeller Foundation in order to study American public health methods. Professor Neeb is specially interested in the problem of sanitation and with Mr. C. A. Holmquist, director of the Division of Sanitation, recently visited the Albany City filtration plant, pumping station and the sewage disposal works.

DR. ALBERT SCHNEIDER, of North Pacific College, Portland, lost valuable manuscripts in the Berkeley fire of last September, including "Applied Therapeutics," practically ready for publication; a full report on "The Use of Emetin in the Treatment and Pre-

vention of Cancer," his notes on cancer experiments, and the notes, drawings, correspondence, etc., on Mexican Bitter Bush (*Castela Nicholsoni*), drawings, notes and manuscripts on "The Compound Microscope in Detective Work"; also many volumes of books.

THE students and friends of the late Professor H. P. Cushing have erected a bronze tablet to his memory in his former lecture room at Western Reserve University, where he established the second department of geology in Ohio, and taught the subject from 1892 until his death in 1921.

As memorials to Röntgen, the University of Würzburg has founded a Röntgen Museum and has erected a bust in the auditorium of the Physical Institute, where he announced on January 29, 1896, his discovery of the röntgen rays. The magistracy has also named a street "Röntgen Ring."

PROFESSOR RALPH E. MAYER, head of the department of engineering and drafting and secretary of the Faculty of Applied Science at Columbia University, died on January 23, in St. Luke's Hospital, from heart failure. He was sixty-five years old.

DR. ALOIS MRAZEK, professor of zoology at the Prague University, died on November 27.

THE annual general meeting of the American Philological Society, Philadelphia, will be held on April 24, 25 and 26, 1924, beginning at 2 P. M. on Thursday, April 24.

THE nineteenth annual meeting of The American Association of Museums will be held at Washington, D. C., on May 12 and 13 and will be preceded by a week-end of entertainment. These dates have been set by the executive committee with reference to the meeting of the American Federation of Arts which is to be held on the three succeeding days. The Association of Art Museum Directors will also meet just before or just after The American Association of Museums.

THE fifty-fourth annual meeting of the American Fisheries Society will be held in Quebec on September 10, 11 and 12.

THE Federation of American Societies for Experimental Biology, comprising the sciences of physiology, biological chemistry, pharmacology and experimental pathology, has maintained for some years a central office from which information may be obtained by men who are looking for positions in these sciences, or by institutions looking for individuals to fill vacant positions. Persons, whether members of the federation or not, and institutions desiring to avail themselves of this service, may do so at any time. Dr. E. D. Brown, of the University of Minnesota, who has been secretary of this information bureau since its organization, has recently resigned, and all communications should be addressed to Professor C. W. Edmunds, University of Michigan, Ann Arbor, Michigan.

THE fourth year of the American School in Europe for prehistoric studies will open July 1. Enrollment may be for the summer term or for the entire year; there is no tuition fee. The work of the summer term consists of excavations sufficient to give the students first-hand knowledge of methods and culture sequence; of excursions to the most important Paleolithic, Neolithic, Bronze and Iron-Age stations; the study of museum collections; and lectures given not only by the director of the school, but also (in various places) by distinguished European anthropologists. After consultation with the director, students may choose for the winter term the center of learning which may offer them the best facilities for the working out of the problems in which they are interested. Students of both sexes are admitted from both North and South America. Applications should be sent to the chairman of the Governing Board, Dr. George Grant MacCurdy, Yale University, New Haven, Connecticut.

THE New York *Times* reports that the North Carolina State Board of Education, headed by Governor Cameron Morrison, on January 23 voted against the teaching in the public schools of that state of any form of evolution which makes it appear that man descended from any of the lower orders of animals, monkeys, or anything else. The board's stand was embodied in a vote to bar from the list of biologies to be adopted by the state high schools all text-books which in any way intimate an origin of the human race other than that contained in the Bible. "Evolution," Governor Morrison is reported to have said, "means progress, but does not mean that man, God's highest creation, is descended from a monkey or any other animal. I do not believe he is, and I will not consent that any such doctrine, or intimation of such a doctrine, shall be taught in our public schools."

R. S. CONWAY, honorary secretary of the trustees of *Discovery*, writes to the London *Times* as follows: "I shall be glad if you will allow me to let your readers know that the popular journal of knowledge *Discovery*, although its cessation has been recently announced, will nevertheless continue to be published. The number for January should appear within a few days of the New Year; and Mr. John Murray, or any bookseller, is authorized to accept orders for 1924 at the same rate as hitherto—namely, 1s. per number, or 12s. 6d. for the year (including postage), if the subscription be prepaid. For the power of continuing their work the trustees and committee of *Discovery* are indebted to the generous intervention of a guarantor, who prefers to remain anonymous, and an educational trust with which he is associated, and which is no less concerned than the founders of *Discovery* to stimulate popular interest in the growth of knowledge. Arrangements for the future joint conduct of the journal will be announced in due course. Meanwhile I am instructed by Sir Joseph J. Thomson, O.M., and the

other trustees to appeal to all the friends of *Discovery* to continue to support it and to extend its circulation by every means."

PROFESSOR HARRY N. HOLMES, Chairman of the Committee on Colloids of the National Research Council, announces that the papers and discussions presented at the First Annual Colloid Symposium, held at Madison, Wisconsin, in June, 1923, have been published by the Department of Chemistry of the University of Wisconsin. The monograph comprises 420 pages. The twenty-two papers cover a wide range of theoretical considerations and applications to medicine and the industries, from the University Cooperative Company of Madison, Wisconsin.

THE Cleveland Museum of Natural History is completing its first field season in the excavation of fossil fishes from the Cleveland Shale (Upper Devonian) of northern Ohio. Under the direction of J. E. Hyde, curator of geology for the museum and professor of geology in Western Reserve University, Mr. Peter Bungart, a well-known and experienced collector in these shales, has been continuously in the field from the first of May to the end of November. This is the first sustained, systematic attempt to secure this material, since the death twenty-five years ago of Dr. William Clark, of Berea, who brought together much of the large collections of this material in the American Museum of Natural History and in the British Museum. The season has been a successful one. A large amount of Titanichthys and Dinichthys material has been secured, some of which is unique. One fairly complete head of the latter will be between five and six feet in length when finally assembled. A dozen essentially complete sharks have been secured, ranging in length from 18 inches to 6 feet. Though these remains have been the objective of collectors since Herzer's discovery of them in 1858, and have been elaborately described by many students, these are believed to be the first large collections ever removed with adequate data on the horizon, locality and mode of field occurrence. Mr. Bungart will devote the winter to preparation of the material for exhibition.

WE learn from *Nature* that a local astronomical society formed at Capetown ten years ago has now been extended to include the Johannesburg society, and the first *Journal* of the combined body has been published. The inaugural presidential address by Dr. Hough deals with the tides, explaining methods of tidal analysis and prediction, and giving an outline of Sir George Darwin's theory of the development of the earth-moon system by tidal evolution. The society has been especially active in comet and variable star work; the former is fully dealt with in the *Journal*.

THE Jamaican Legislature has voted £900 towards

the expenses of holding an Agricultural Conference in Jamaica next year. By a majority of three the council refused to pledge the colony to contribute an annual sum towards the maintenance of an agricultural college in Trinidad. It was argued that Jamaica needs its own college to serve the Bahamas and British Honduras.

DETAILS of a plan to explore a water route, north-eastward from Alaskan waters through the Arctic regions, were announced recently by Captain Robert A. Bartlett, commander of the *Roosevelt*, on which Admiral Peary made his voyage toward the North Pole. Captain Bartlett said he proposed to leave Seattle next June or July, pass through Bering Strait, and drift eastward with the ice to Greenland or Spitzbergen. He should reach civilization again in four or five years, he said. A party of ten, including scientific men, will make up the expedition. A wooden, non-magnetic ship will be used and instruments for surveying the northern regions, sounding the depths of the Arctic Ocean and examining whatever life may be found, will be included. The ship will carry wireless and a seaplane.

A SCIENTIFIC expedition is being fitted out for Africa under the direction of M. C. Moureu, professor at the Collège de France, who will be assisted by MM. Lepape and Moureu. The main purpose of this expedition is to study the mineral waters of Antsirabé, which are said to resemble the waters of Vichy and also to possess radioactivity.

UNIVERSITY AND EDUCATIONAL NOTES

GROUND has been broken for the construction of a new building for the School of Hygiene and Public Health of Johns Hopkins University. The building, which will cost \$1,000,000 when equipped, will be erected opposite the pathology building of the hospital. It will be an eight-story building of modern Italian design. The basement, first and eighth floors will be of Indiana limestone, the intervening stories gray brick. It will be ready for occupancy in about a year.

CHARLES LATHROP PACK, president of the American Tree Association, has added \$500 to an original gift of \$500 made to the forestry department at Cornell University. In addition, he has given another \$1,000, the income of which is to be used as an annual prize to encourage forestry students in writing about forestry in a way that will interest the general public.

BRADFORD KNAPP, dean of the College of Agriculture of the University of Arkansas and director of the Arkansas Station, has been appointed president of Oklahoma College and has entered upon his work.

PROFESSOR H. F. TOMPSON, of the Massachusetts Agricultural College, has resigned as professor of