

Dr. Walter Mayer, of Berlin, was made associate in mathematics and Dr. J. L. Vanderslice was appointed assistant to Professor Veblen.

Through the courtesy of the authorities of Princeton University the mathematical group will be temporarily accommodated at the new Fine Hall, which is peculiarly adapted to the purposes of an institute. On the other hand, the institute will be in every respect a separate organization, and, while it will cultivate co-

operative and friendly relations with the members of the Princeton faculty, it is hoped that equally co-operative relations will be established with all similar groups throughout the country.

No definite site has yet been selected, nor has any step been taken in respect to buildings. The students admitted will be few in number and will be limited to persons who give promise of unusual development in their respective subjects.

## SCIENTIFIC NOTES AND NEWS

AMONG the twelve physicians elected to foreign corresponding membership in the British Medical Association at the centenary meeting held in London from July 21 to 30, 1932, are the following Americans: Dr. Harvey Cushing, of the Harvard Medical School; Dr. Simon Flexner, of the Rockefeller Institute for Medical Research, and Dr. William H. Welch, of the Johns Hopkins University. The elections were made under a minute which reads: "Further to mark the importance of the centenary, the association is this year initiating a list of foreign corresponding members of the association. These members must be such as are, in the opinion of the science committee, distinguished by eminent services rendered to medical science or to the medical profession, and must not be eligible for ordinary membership of the association, or be British subjects, or be ordinarily resident in the British Dominions."

ELEVEN engineering societies have presented to Dr. David B. Steinman, president of the National Council of State Boards of Engineering Examiners, a sterling silver scroll "in recognition of his services which have contributed so greatly to advancing the status of the engineering profession." The presentation was made on September 29 at a dinner in the Hotel Pennsylvania, New York.

At the last monthly meeting of the Royal Faculty of Physicians and Surgeons of Glasgow, Mr. Walter Hurst, having recently retired from the position of secretary, was presented by the president, Dr. R. Barclay Ness, on behalf of the fellows, with a mark of appreciation of his work. Mr. Hurst had been connected with the faculty for twenty-five years.

THE second Clausen gold medal "for outstanding services performed in behalf of the social and economic welfare work for the engineer," was awarded at the recent Washington meeting of the American Association of Engineers to Herman Alexander Wagner, of Chicago and Mayer, Arizona, who has devoted seven years as a director and officer of the association. He is the inventor of electrolytic processes for the treatment of refractory ores. Officers of the associa-

tion elected at the meeting were: Victor Householder, *president*; Donald L. Chamberlin, *vice-president*; Mrs. M. E. McIver, *national secretary*; Howard Levering, of Huntington, West Virginia, and Victor Baum, of Tulsa, Oklahoma, *directors*. Members were received at the White House by President Hoover.

PROFESSOR LYMAN C. NEWELL, of Boston University, has been elected chairman of the division of chemical education of the American Chemical Society for 1932-33. He succeeds Professor John N. Swan, head of the Department of Chemistry in the University of Mississippi. Other officers chosen by the division are: *Vice-chairman*, Louis W. Mattern, instructor in chemistry, McKinley Technical High School, Washington, D. C.; *Secretary*, Professor R. A. Baker, College of the City of New York; *Treasurer*, Virginia Bartow, University of Illinois.

DR. R. E. DYER, of the U. S. Public Health Service, is in the U. S. Naval Hospital at Washington, suffering from an attack of typhus fever which was contracted in the course of his investigations on the disease in the laboratories of the U. S. National Institute of Public Health.

DR. HUGH P. BAKER, dean of the New York State College of Forestry at Syracuse, New York, has been elected president of the Massachusetts State College at Amherst. He succeeds Dr. Roscoe W. Thatcher, who resigned last spring on account of ill health.

At the School of Medicine of the University of Texas, Dr. Donald Duncan, assistant professor of anatomy at the University of Buffalo, has been appointed associate professor of anatomy; Dr. Francis J. L. Blasingame will succeed Dr. Wilbur A. Sengelmann as instructor in anatomy; Dr. Wendell Gingrich will be professor of bacteriology and preventive medicine, and Dr. William M. Powell, instructor in pathology, succeeding Dr. Ellen D. Furey.

THE following men, who have recently received the doctorate in botany at the University of Nebraska, have entered upon new positions as indicated: Professor A. E. Holch, head of the department of botany,

University of Denver; Professor J. M. Winter, head of the department of biology, Peru State Teachers College, Nebraska; Professor T. L. Steiger, head of the department of biology, Sul Ross State Teachers College, Alpine, Texas; Professor W. E. Bruner, head of the department of biology, Kearney State Teachers College, Nebraska. Dr. Steiger has recently returned to the United States from a year and a half abroad, where he studied in Switzerland and France on a fellowship granted by the National Research Council.

DR. ALFRED ADLER, of Vienna, has been appointed head of the new department of medical psychology at the Long Island College of Medicine.

FLOYD S. YOUNG has been made director of the Lincoln Park Zoological Garden at Chicago, succeeding the late Alfred E. Parker, who died last August.

DR. CONSTANCE E. HARTT, who has been conducting research on potassium deficiency in sugar cane at the Experiment Station of the Hawaiian Sugar Planters' Association with the aid of the Sarah Berliner Research Fellowship of the American Association of University Women, has been enabled to continue research at the Experiment Station by the award of a fellowship by the Hawaiian Sugar Planters' Association.

THE Charles Mickle fellowship for 1932 has been awarded by the faculty of medicine of the University of Toronto to Dr. Gaston Leon Ramon, a graduate of the university, now director of the Pasteur Institute Farm at Garches, France. This award has been made to Dr. Ramon for his work on diphtheria and on practical methods for community protection against infectious disease.

ERNEST WILLIAM WIGNALL, formerly a fellow of the Rockefeller Institute for Medical Research, New York City, has been appointed secretary of the British Museums Association to succeed S. F. Markham.

PENELOPE JENKIN, of Newnham College, Cambridge, has been appointed Ray Lankester investigator at the Marine Biological Laboratory, Plymouth, for the year 1933. *Nature* states that Miss Jenkin will attempt to correlate the rate of photosynthesis of diatom cultures immersed at different depths in the sea, off Plymouth, with photoelectric measurements of light penetration made by Dr. W. R. G. Atkins.

W. F. HIGGINS, of the British National Physical Laboratory, has been appointed secretary of the laboratory in succession to F. J. Selby.

Mlle. M. CONDAT, who has held the post of *agrégé* since 1923, has recently been appointed professor of therapeutics in the medical faculty of Toulouse.

A. F. MOORE, of the Smithsonian Institution, and Mrs. Moore, who have been in Africa for twenty months investigating the suitability of sites for a solar observatory, have returned to Washington.

DR. W. W. ROBBINS, head of the Division of Botany at the Davis Branch of the College of Agriculture of the University of California, will spend six months in Europe where he plans to continue his investigations on sugar beets, weeds and seeds.

DR. HOWARD H. MARTIN, associate professor of geography at the University of Washington, has returned to Seattle after a year's leave of absence for field investigation in Europe and Northern Africa.

DR. H. C. CHANG, of the department of physiology of the Peiping Union Medical College, is visiting the United States.

DR. W. BAENSCH, professor of radiology at the University of Leipzig and director of the University X-ray and Radium Institute, is spending the month of October in the United States.

DR. CHARLES M. WALTHARD, of the department of neurology at the University of Zurich, has arrived in the United States to spend a year in visiting and studying neurological clinics and institutes.

ERIC REED, of the Rowett Institute, Aberdeen, Scotland, is spending six weeks in study in the nutrition laboratories of the animal husbandry division of the University of California, at the Davis Branch of the College of Agriculture.

THE Founder's Day address at Lehigh University on October 5 was delivered by Dr. W. F. G. Swann, director of the Bartol Research Foundation of the Franklin Institute, who spoke on "The Scientific Method."

A SERIES of five "Open Nights," beginning on October 14, will be held under the auspices of the Bond Astronomical Club at the Harvard College Observatory in Cambridge. On each evening a short non-technical talk will be followed, when the weather permits, by telescopic observation of celestial objects. There is no charge for admission, but tickets will be distributed only to the capacity of the lecture room. The lectures begin promptly at 7:30 P. M. The dates, titles and speakers for the lectures are: Oct. 14—"The Sun, a Variable Star," Dr. Donald H. Menzel. Oct. 18—"Our Galactic System," Dr. Bart J. Bok. Oct. 20—"Developments of the Telescope," Mr. William A. Calder, Jr. Oct. 25—"Eclipsing in 1932," Mr. Loring B. Andrews. Oct. 27—"The Pleiades and Milky Way Clusters," Dr. Carol Anger Rieke.

THE one hundred and eightieth regular meeting of the American Physical Society will be held at the

University of Chicago in the Ryerson Physical Laboratory on Friday and Saturday, November 25 and 26, 1932. Other meetings for the current season are as follows: Pasadena, December 16-17, Pacific Coast; Atlantic City, December 28-30, annual meeting; New York City, February 23-25, 1933; Washington, April 27-29; Pacific Coast, time and place to be announced, week of June 19.

By the will of the late Daniel Pingree, who left an estate of \$20,000,000, the sum of \$700,000 is set aside for public purposes. The bequests include: Peabody Museum, of Salem, \$10,000; Brown Library Association, Seabrook, N. H., \$10,000; Town of Topsfield, \$150,000 for a new library; Bates College, \$150,000; Salem Public Library, \$15,000; Salem Hospital, \$10,000; Salem Y. M. C. A., \$10,000, and Essex Institution of Salem, \$10,000.

*The British Medical Journal* writes that with a view to encouraging the progress of clinical research on lines which the Medical Research Council has been developing in conjunction with University College Hospital Medical School since 1916, the Rockefeller Foundation has handed over to the corporation of University College Hospital the sum of £48,800 "to constitute a fund for the permanent endowment of a post the holder of which will devote his whole energies to the advancement of clinical research." It is planned to bring into existence a body of clinical workers, freed from ordinary hospital routine and teaching, who will devote their whole time to the investigation of special clinical problems. Since 1916

the Medical Research Council has financed such a body of workers under the guidance of Sir Thomas Lewis, at University College Hospital, and in 1930 the hospital formally recognized this group as a definite "department of clinical research." The gift of the Rockefeller Foundation will be used as an endowment for the post at present held by Sir Thomas Lewis, who is the pioneer of this development. It will release sufficient funds to enable the Medical Research Council to make provision for further posts of this nature, and thereby extend the work which it has begun.

DR. WILLIAM B. CADWALADER, president of the Zoological Society of Philadelphia, has addressed a letter to Mayor Moore to the effect that the Philadelphia Zoological Gardens, established fifty-six years ago, will be compelled to close unless the city grant an appropriation of \$100,000 for the coming year. On account of the depression it would be impossible to sell the animals and it may be necessary to have them slaughtered.

THE dedication of the Louis Marshall Memorial, the new Science Building at the New York State College of Forestry, Syracuse, New York, has been postponed until February or March of next year. The dedication date was originally set for November 18. It is planned to invite the Governor of the State, the Secretary of the U. S. Department of Agriculture, the chief forester of the United States and deans of the forest schools as well as heads of organizations in the field of forestry.

## DISCUSSION

### EXPLORATION OF THE DEEP SEA

A RECORD deep sea dive has just been made in the course of the New York Zoological Society's 1932 Oceanographic Expedition to Bermuda. On September 22, from two to four P. M., Mr. Otis Barton and myself were submerged in the Bathysphere, eight miles off Nonsuch Island south of Bermuda. We reached an extreme depth of twenty-two hundred feet, or three hundred and sixty-six fathoms, and returned to the surface without mishap.

Every possible observation was made and recorded. Down to fourteen hundred feet—the record which we set in June, 1930—nothing extraordinary was noted. From seventeen hundred feet down the human eye could get no results either through the spectroscope or photometer, and the windows showed only intense blackness. An oblique upward glance revealed no paling, and the appearance on the surface of sudden brilliant sunshine reflected no discernible difference

below. From here to twenty-two hundred feet and up again, the following interesting phenomena were observed: an unexpected abundance of fish, of large-sized crustacea and other invertebrates; the visibility of many by their own lights; the large size and complete lack of halation of the individual illuminants; the extreme clarity of observation; the sequence of abundance as regards color of lights, pale greenish, pale bluish and pale rosy; brightly illumined fish up to six feet in length; and finally, the swiftness of movement of all visible organisms except, of course, plankton. On account of an imperfect stuffing box and the increasing pitching and rolling we could not remain long at the greater depths, but there is no doubt whatever of the possibility of thorough visual resolving of the inhabitants of this half-mile zone when the observer can spend hours instead of minutes at the windows of the Bathysphere. Additional dives will be made next month.

WILLIAM BEEBE