

said that a total of \$6,250,000 had been received to date. The sum needed is \$7,000,000.

In disclosing the status of the fund Mr. Sage revealed that a gift of \$100,000 had been made anonymously a short time ago. Earlier several other substantial donations had been turned over to the fund by anonymous givers. Among the larger subscriptions of recent receipt were a gift of \$5,000 from William D. Baldwin and one of \$5,000 from Mr. and Mrs. A. R. Kuser, of Bernardsville, N. J.

Mr. Sage announced that the two gifts of \$25,000 each made last spring by Miss Annie Burr Jennings and Mrs. Walter B. James had been made to establish two five-bed medical wards. The wards are to be memorials to "the distinguished services of Dr. Walter B. James to the Presbyterian Hospital and to medical science."

A committee has been formed drawn from the hospital Board of Managers and from friends of the institution to speed the raising of the \$750,000 still required. The committee was named at a luncheon at the Downtown Association and the plans call for the raising of the sum before the winter.

A year ago when the Medical Center, which will be one of the finest of its kind in the world, took form, the hospital had on hand about \$2,500,000 of the sum required. Columbia University, which joins in the establishment of the center, had its share ready. In a public appeal for help, which had as its goal \$4,500,000, the hospital last winter raised the sum of \$3,640,000.

The annual meeting of the Uptown Medical Center Association, Inc., was held on October 5, at the Washington Heights Chamber of Commerce, 1042 St. Nicholas Avenue. The association was formed by residents of the Heights section to collect \$400,000, with which to build a floor in the hospital unit of the center and also to cooperate in any way possible in the construction of the entire plant. So far the association has raised more than \$156,000.

The first unit of the center, a \$10,000,000 building, which will house the College of Physicians and Surgeons of Columbia University and also the hospital, is now under construction. Ground was broken this spring and the building is expected to be ready for occupancy in 1927. The university is contributing \$3,000,000 to erect its section of the building.

THE SHEDD AQUARIUM

A SPECIAL investigative mission for the Shedd Aquarium left Chicago on October 3 to study the construction, scientific and educational features and management of European aquariums with a view that the Shedd aquarium to be built in Chicago will be

an improvement over any existing institution of its kind.

The mission is comprised of Walter H. Chute, associate director of the Shedd Aquarium, and Leslie C. Stokes, engineer for Graham, Anderson, Probst & White, architects, who will draw the plans for the Chicago institution. They will be gone about two months. Immediately upon their return they will, in company with George F. Morse, director of the Shedd Aquarium, visit and make a similar study of American aquariums.

Mr. Chute and Mr. Stokes will, during their research, take into account both the mistakes and the desirable features of the leading aquariums of the world. Their findings and deductions will be incorporated in the plans to be drawn by Mr. E. R. Graham. European aquariums which will be visited include those at Naples, Monaco, Berlin, Antwerp, London, Leipzig, Dresden, Manchester, Plymouth, Blackpool and others.

At Naples special attention will be given to that aquarium's famous invertebrate collection. The Naples aquarium has been especially successful in keeping delicate species of marine life on exhibition. Methods used in handling them will be studied. The biological research laboratories of the Monaco institution will be especially studied there, and in Berlin the only artificial salt water system that has proved satisfactory will be investigated.

Both the Antwerp and London aquariums are new ones. The artificial lighting in the tanks at London is especially interesting and effective, as well as natural backgrounds used there and designed by Miss Proctor, curator of reptiles in the Zoological Gardens in Regents Park.

THE OPTICAL SOCIETY OF AMERICA

THE tenth annual meeting of the Optical Society of America will be held at Cornell University from October 29 to 31. In addition to a number of contributed papers and committee reports on such subjects as radiation, spectrometry, photography, physical optics, geometrical optics and physiological optics, there are two invited papers, one by Professor Simon H. Gage, of Cornell University, on "The microscope: Its development and some recent improvements," and the other by Professor E. M. Chamot, of Cornell University, on "Chemical microscopy: Its aims and possibilities."

There are two other important items on the program: Dr. H. E. Ives, of the Bell Telephone Laboratories, Inc., president of the society, will deliver his retiring presidential address on "Some photographic problems encountered in the transmission of pictures by wire"; and Professor Dayton C. Miller, of the

Case School of Applied Science, will give an evening lecture on "Contributions of optical measurements to physical theory." Professor Miller will discuss, among other things, his recent ether drift experiments at Mount Wilson.

The Optical Society of America was founded in 1916 to "serve the interests of those who are engaged in any branch of optics, from fundamental research to the manufacture of optical goods." Its present officers are:

President: Herbert E. Ives,
Bell Telephone Laboratory, Inc.,
New York City.

Vice-president: W. E. Forsythe,
Nela Research Laboratory,
Cleveland, Ohio.

Secretary: F. K. Richtmyer,
Cornell University,
Ithaca, N. Y.

Treasurer: Adolph Lomb,
Bausch and Lomb Optical Co.,
Rochester, N. Y.

The meetings are open to the public. A detailed program may be had by writing to the secretary.

SCIENTIFIC NOTES AND NEWS

THE autumn session of the National Academy of Sciences will be held at the University of Wisconsin on November 9, 10 and 11. The local committee consists of C. K. Leith, *Chairman*; C. E. Allen, George C. Comstock, L. R. Jones, Max Mason, C. E. Mendenhall, Joel Stebbins and E. B. Van Vleck.

ON the occasion of the meetings of the German Chemical Society at Nuremberg on September 2, Professor Gustav Dammann, of Göttingen, was presented with the Liebig commemorative medal of the society for his work on the properties of crystals, and Professor Otto Warburg, of the Kaiser Wilhelm Institute of Berlin, was presented with the Adolf-Baeyer commemorative medal for his researches on the metabolism of tumors.

DR. ALOIS K. KOVARIK, professor of physics at Yale University, was presented with the medal of the University of Prague on the occasion of his recent visit to the university, where he gave a series of lectures.

F. L. STEVENS, professor of plant pathology at the University of Illinois, was recently granted a doctorate by the University of San Marcos at Lima, Peru, in recognition of his studies on tropical fungi.

THE Ecuadorean government has awarded the medal of merit to Dr. Michael E. Connor, a member of the International Health Board of the Rockefeller Foun-

dation, who has been engaged for about two years in studying yellow fever and laying plans for a campaign against the disease.

MEMBERS of the American Section of the Society of Chemical Industry gave on September 3 a testimonial dinner at the Chemists' Club to Dr. Allen Rogers, who was the secretary of the society for over ten years.

AT the University of Pennsylvania leaves of absence for the first half of the academic year have been granted to Dr. William Pepper, Jr., dean of the school of medicine; Dr. Charles B. Bazzoni, professor of experimental physics, and Dr. Francis C. Grant, associate in surgery.

ORVILLE WRIGHT has accepted the chairmanship of an advisory committee for the new school of aeronautics at New York University, which was recently established through a gift from Daniel Guggenheim.

THE American Röntgen Ray Society, meeting in Washington, D. C., has elected the following officers for the year 1926: Dr. Russell B. Carman, of Rochester, Minn., *president*; Dr. P. F. Butler, Boston, *first vice-president*; Dr. Charles F. Richards, San Jose, Calif., *second vice-president*; Dr. Charles L. Martin, Dallas, Tex., *secretary*; Dr. William A. Evans, Detroit, Mich., *treasurer*; Dr. Harry W. Bachelor, Toledo, Ohio, *librarian*.

THE British Röntgen Society has elected officers for the session 1925-26 as follows: *President*, Dr. F. W. Aston, F.R.S.; *Vice-presidents*, Dr. Robert Knox, Dr. N. S. Finzi and Professor A. W. Porter, F.R.S.; *Honorable treasurer*, Mr. Geoffrey Pearce; *Honorable editor*, Dr. G. W. C. Kaye; *Honorable secretaries*, Dr. E. A. Owen and Dr. R. J. Reynolds.

J. S. HIGHFIELD will be installed as president of the British Junior Institution of Engineers at the inaugural meeting of the forty-fifth session on December 11, when he will deliver his presidential address.

PROFESSOR E. F. BEAN, of the University of Wisconsin and for some years assistant state geologist, has been named acting director of the state geological survey and state geologist by the geological survey commission to succeed Professor W. O. Hotchkiss, who has been made president of the School of Mines at Houghton, Mich.

GEORGE MIKSCH SUTTON, of the Carnegie Museum, Pittsburgh, has been appointed Pennsylvania State Ornithologist, with headquarters in Harrisburg.

PROFESSOR HENRY H. NORRIS, formerly head of the department of electrical engineering at Cornell Uni-