

16, during his attendance at the sessions of the Fourth International Entomological Congress at Ithaca, N. Y., at a dinner given in his honor in the Willard Straight Hall of Cornell University, Dr. A. Avinoff, the present director of the Carnegie Museum, presented him with an illuminated manuscript on behalf of his friends in the museum.

This manuscript, done in natural colors and gold on parchment, bears, encircled in a laurel wreath, the Roman numerals LXXX. Within the reflected radiance of these golden numerals and around the initial letter of the text are depicted a swarm of various species of brilliantly colored butterflies, while at the base of the manuscript is a great Dinosaur, all of which have been made known to science by Dr. Holland. Entwined or resting upon a symmetrical conventionalized floral scroll, adorning the border in the style of ancient illuminated manuscripts, are numerous examples of plants, both recent and fossil, insects, fishes, reptiles, a humming-bird and a fossil mammal, all of which at one time or another have been named in honor of Dr. Holland by various specialists.

Serving as a border to the script and alternating with reproductions of the numerous foreign decorations which have been bestowed upon Dr. Holland in recognition of his services to science, is a series of diplomas, each bearing the appropriate university colors, representing the academic honors which have been conferred upon him, including the degrees of Ph.D., D.D., LL.D., Sc.D. and L.H.D.

A series of volumes bearing the titles *Entomologia*, *Paleontologia*, *Philosophia* and *Biologia*, emblematic of the principal fields of Dr. Holland's scientific labors, complete the decoration.

This manuscript, of which a reproduction will shortly appear in the "Annals of the Carnegie Museum," is the creation of Dr. A. Avinoff, director of the Carnegie Museum. The Gothic script, in black with red initials, was executed by Mr. Rudyard Boulton, also of the museum staff.

The text of the document follows:

Dr. Holland:

The Carnegie Museum, created by you and brought largely by your efforts to its present high standard of scientific merit and educational efficiency, salutes you cordially and devotedly on your eightieth birthday. We are proud of your achievements and leadership in so many fields during these years of fruitful and diligent work. As minister of the Gospel you have always closely interwoven your life with that of the church, and you have consecrated yourself whole-heartedly to the study of the wondrous realm of nature. Your place in the forefront of science is worthily and universally recognized. You are eminently identified with the cause of education. You have contributed generously and enduringly to the progress of our community. Your at-

tainments are blossoming richly in the ripe age of your life when the anniversary of your fourscore years finds you as active and vigorous as ever, engaged in the numerous absorbing tasks which are the joy of your life and the inspiration of your friends, admirers and collaborators. As a widely renowned scientist and educator, as an accomplished man of letters, as a prominent churchman and citizen, you have been honored with many just tributes on the part of civic bodies and seats of higher learning in this country and in foreign lands. In trusting that you may be spared for many, many, useful years to come, we shall continue as ever to hold your name, not only high in our unanimous and profound esteem, but deep and secure in our hearts.

Long live our respected and beloved dean!

CARNEGIE MUSEUM,

Staff of the Museum

Museum Committee of Trustees

SCIENTIFIC NOTES AND NEWS

THE autumn session of the National Academy of Sciences will be held at Union College, Schenectady, New York, on November 19, 20 and 21.

DR. FRANZ BOAS, professor of anthropology at Columbia University, was elected president of the International Congress of Americanists at its recent meeting in New York City.

ON the occasion of the meeting of the British Association for the Advancement of Science, honorary degrees were conferred by the University of Glasgow as follows: The Reverend Professor Shailer Mathews, dean of the Divinity School of the University of Chicago, received the doctorate of divinity. The doctorate of laws was conferred on Sir William Bragg, president of the association; Sir Thomas Holland, president-elect; Dr. Adrien Loir, curator of the Natural History Museum at Havre, representing the French Association for the Advancement of Science; Dr. Frank Lincoln Stevens, professor of plant pathology in the University of Illinois, representing the American Association for the Advancement of Science; Dr. Franz Eduard Suess, professor of geology at Vienna; Dr. E. Westermarek, professor of sociology in the University of London, and Professor P. Zeeman, the physicist of the University of Amsterdam.

AT the July congregation of degrees of the University of Wales, the degree of doctor of science was conferred upon Professor Walter Thomas, of the Pennsylvania Agricultural Experiment Station.

DR. S. J. HOLMES, professor of zoology at the University of California, has been elected president of

the California chapter of the Phi Beta Kappa honorary society.

PROFESSOR ALBERT A. MICHELSON, having completed his experiments on the speed of light at Pasadena, California, has returned to Chicago, and expects to resume his lectures at the university on October 1.

THE daily papers report that Dr. George W. Crile, director of the Cleveland Clinic and Hospital, is recovering from injuries received through a fall from his horse.

COLONEL HARRY BURGESS, of the engineering corps of the U. S. Army, has been appointed governor of the Canal Zone.

PROFESSOR GODFREY HAROLD HARDY, Savillian professor of geometry at the University of Oxford, is taking up his work in Princeton University. He is exchanging with Professor Oswald Veblen, of the department of mathematics. Dr. Hermann Weyl, professor of higher mathematics in the University of Zurich, will occupy the Thomas D. Jones research professorship of mathematical physics.

WILBUR A. NELSON has resigned as state geologist of Virginia. For the past three years he has held the joint position of state geologist and head of the school of geology at the University of Virginia. Beginning on September 1, these two positions were separated and Mr. Nelson will devote his entire time to his work at the University of Virginia. Mr. Linwood H. Warwick, who has been chief clerk of the survey since its organization in 1908, has been appointed acting head of the survey, the offices of which will be at the University of Virginia as heretofore.

WM. D. JOHNSTON, JR., has been appointed assistant geologist and Ralph M. Leggette junior geologist in the water resources branch of the U. S. Geological Survey. Francis G. Wells has been appointed junior engineer in the same branch of the survey.

THE committee on government problems of the National Academy of Sciences, consisting of the president and vice-president of the academy, the chairman of the National Research Council, the chairman of the division of federal relations of the council, the chairman of each of the sections of the academy, and one member at large, is now as follows: John C. Merriam, chairman (member at large); T. H. Morgan, president of the academy; F. E. Wright, vice-president; George K. Burgess, chairman of the National Research Council; George Otis Smith, chairman of the division of federal relations of the council, and the following chairmen of sections; W. S. Adams, astronomy; G. D. Birkhoff, mathematics; Marston T.

Bogert, chemistry; J. McKeen Cattell, anthropology and psychology; K. T. Compton, physics; W. F. Durand, engineering; R. A. Harper, botany; W. H. Howell, physiology and pathology; H. S. Jennings, zoology and anatomy; G. P. Merrill, geology and paleontology.

DR. WALDEMAR KAEMPFERT, director of the Rosenwald Industrial Museum, in Chicago, will sail for Europe in October. Mr. Kaempfert will spend about three months in visiting the industrial museums of Munich, Vienna and London.

DR. B. TROUVELOT, of the Ministry of Agriculture at Paris, will spend six weeks at the Citrus Experiment Station of the University of California. He is investigating biological control work. Dr. Efflaton, of Egypt, and W. B. Gurney, entomologist of New South Wales, will also work at the station.

PROFESSOR A. VOLKART has recently returned to Zurich, after visiting Canada and the United States. He visited the leading Canadian experiment stations, traveled down the Pacific Coast to Los Angeles, studied the problems of irrigation and dry-land farming in the southwest and in Kansas, visited the Iowa and Wisconsin Agricultural Experiment Stations and spent a week in Washington, becoming familiar with the work of the Bureau of Plant Industry, U. S. Department of Agriculture. Professor Volkart is gathering material for a revision of "Die besten Futterpflanzen."

WM. B. GURNEY, government entomologist in the Department of Agriculture, Sydney, New South Wales, spent August 23 and 24 inspecting the entomological work of the agricultural experiment station of the Kansas State Agricultural College. Dr. R. T. Hillyard, commonwealth entomologist of Australia, and Mr. F. Muir, entomologist of the experiment station of the Hawaiian Sugar Planters' Association, also visited the department of entomology and made a trip to the insect fossil beds near St. Elmo, Kansas.

DR. J. J. GALLOWAY, of the department of geology of Columbia University, spent the summer in Oklahoma in research on the micropaleontology of the Pennsylvanian formations of the mid-continent region. The work was done in collaboration with Dr. Charles Ryniker, of Tulsa, Oklahoma, and was under the auspices of the Gypsy Oil Company.

DR. MARGARET MEAD, ethnologist in charge of the South Sea Island Hall of the American Museum of Natural History in New York, recently lectured before the faculty and graduate students of the department of anthropology of the University of Cali-

fornia. Dr. Mead is on her way to the Admiralty Islands to make a psychological study of young children.

LORD MELCHETT, formerly Sir Alfred Mond, is visiting the United States. While in America he will lecture at Harvard University on "Industrial Cooperation."

DR. C. M. CHILD, professor of zoology at the University of Chicago, will deliver the first Harvey Society Lecture at the New York Academy of Medicine on October 11. His subject will be "Senescence and Rejuvenescence from a Biological Standpoint."

DR. H. FOSTER BAIN, secretary of the American Institute of Mining and Metallurgical Engineers, was the speaker at the convocation exercises on September 27 of the Case School of Applied Science.

PROFESSOR FERDINAND BLUMENTHAL, director of the Institute for Cancer Research in Berlin, recently lectured in Paris on the present status of the cancer problem.

THE Lane medical lectures of Stanford University will be given this year by Dr. F. d'Herelle, professor of bacteriology at Yale University, during October. The titles and dates of the lectures are as follows: October 22, "Bacteriophagy"; October 23, "Bacterial Mutations"; October 24, "The Nature of the Bacteriophage"; October 25, "Infectious Diseases," and October 26, "The Phenomenon of Recovery."

IN conformance with the request of donors to a scholarship fund in honor of the late Professor E. J. Wickson, formerly dean of the College of Agriculture, the regents of the University of California have changed the name of the fund to the Wickson Memorial Loan Fund, the income from which will be available to needy agricultural students, particularly in the graduate school.

DR. BENJAMIN WARNER SNOW, professor of physics at the University of Wisconsin, died on September 21 at the age of sixty-eight years.

SIR HORACE DARWIN, F.R.S., chairman of the Cambridge Instrument Company, known as an inventor of scientific instruments, died on September 23 at the age of seventy-seven years. Sir Horace was a son of Charles Darwin and brother of the late Sir George Darwin, professor of astronomy and experimental philosophy at the University of Cambridge; of Sir Francis Darwin, professor of botany at Cambridge, and of Major Leonard Darwin, of the Royal Engineers, known for his work in eugenics.

THE nineteenth meeting of the German Society of Naturalists and Physicians was held in Hamburg from

September 15 to 22. There were thirty-five sections and almost as many affiliated societies.

THE International Mathematical Congress, which met at Bologna on September 10, held its final session in the Palazzo Vecchio, Florence. The decision to close the congress at Florence was made in homage to the great scientific traditions of the city. During the conference the delegates visited the monuments of Bologna, Ferrara and Ravenna, laying a wreath on the tomb of Dante.

THE American College of Surgeons will hold its eighteenth clinical congress in Boston from October 8 to 12. The address of the retiring president will be given by Dr. George D. Stewart, of New York, and the inaugural address by the newly elected president, Dr. Franklin H. Martin, Chicago. The John B. Murphy oration on surgery will be by Professor Vittorio Putti, of Bologna, Italy, and the fellowship address by Dr. William J. Mayo, of Rochester, Minnesota. Ether Day will be celebrated in the Dome Room of the Massachusetts General Hospital on Friday, when a bronze bust of William T. A. Morton will be presented to the hospital. The chairman of the Boston committee on arrangements is Dr. Frederic J. Cotton. Among the distinguished guests and visitors from abroad will be Dr. Daniel J. Cranwell, Argentina; Sir Charles P. B. Clubbe and Sir George A. Syme, Australia; Sir Charles Ballance and Sir Samuel Squire Sprigge, England; T. de Martel, France; Ulises Valdes, Mexico; Archibald Young, Scotland, and Sir John Lynn-Thomas, Wales.

THE American Society of Mechanical Engineers reports that, since the inauguration of the Engineering Index Service in January of this year, this comprehensive index to all technical periodicals has gained recognition and support from many industries, both domestic and foreign. The old annual index, in volume form, contained from 18,000 to 20,000 items, whereas the new service has annotated nearly 32,000 articles in the first nine months of its existence and the original estimate of 50,000 items per year is, apparently, not amiss. The service in its present form is a complete index to all current technical periodicals from thirty-seven countries. In it one finds a complete résumé of all published technical information with the assurance that further search is unnecessary.

THE one hundredth anniversary of the founding of the College of Pharmacy of the City of New York and the twenty-fifth anniversary of its affiliation with Columbia University will be celebrated in the week of May 27, 1929.

THE Brooklyn College of Pharmacy is to become a part of Long Island University. The consolidation is

to take place before the College of Pharmacy begins the construction of a new \$500,000 plant adjoining its present building on Nostrand Avenue, near Lafayette Avenue, which is expected to be fully completed within a year. The college was established in 1887 by the Kings County Pharmaceutical Society as a lecture center, but did not become a technical college until 1891. Approximately 3,000 students have been graduated from the institution and its classes number about 250 every year.

THE American Museum of Natural History is made the remainder beneficiary of trust funds aggregating more than \$500,000, under the will of the late Frederick G. Voss. Before his retirement Mr. Voss was U. S. manager of foreign insurance companies. The will directs that the fund be used in further development of the institution's department of research in anthropology and archeology. The museum is the residuary legatee and will receive the principal of trust funds on the death of the life tenants.

THE Academy of Natural Sciences of Philadelphia has contributed \$500 toward the completion of the fund needed for the Byrd Antarctic Expedition.

UNDER the auspices of the Industrial Development Board of Manitoba, a council has been formed to direct and stimulate scientific research on problems which have to do with the utilization of the resources of the province. The council has been formed with the assistance of the National Research Council at Ottawa and membership of the board includes engineers, chemists and manufacturers. Provincial industries will be asked to submit their problems and those of national interest will be submitted to the National Research Council at Ottawa.

THE new observatory for studying the northern lights at Tromsø, Norway, was completed and taken into active service this summer, under the direction of the Norwegian Society for Cosmic Physics. Aside from the northern lights, the observatory will also be devoted to the study of atmospheric conditions in high altitudes, and it will conduct magnetic and meteorological observations of great practical value in weather forecasting. The work is in the nature of a continuation and expansion of that of the Geophysical Institute at Bergen, with which it will be closely connected.

A new bee-culture field station, known as the Southern States Bee Culture Field Laboratory, has been established by the Department of Agriculture at Baton Rouge, La. Special funds for this purpose were appropriated by the last Congress. The Louisiana State University is providing laboratory facilities,

heat, light and janitor services, and is also assisting financially in the procurement of scientific apparatus. W. J. Nolan, of the department's bee-culture laboratory, Somerset, Md., has been in Baton Rouge since early in July making necessary arrangements for conducting the experimental work. Dr. W. W. Whitcomb, Jr., recently appointed a member of the department's bee-culture staff, is also at Baton Rouge, where he will be stationed permanently.

WITH the approval of the Personnel Classification Board, the Bureau of Plant Industry has recently established the position of principal horticulturist in charge of horticultural crops and diseases. The establishment of this new position is with the intention of accomplishing a regrouping and consolidation in the supervision of several closely related activities. The new principal horticulturist will be assigned to the general supervision not only of the horticultural, pomological and related items of the present Office of Horticulture, but also the physiological project of the Office of Plant Geography and Physiology, the projects relating more or less directly to horticultural crops of the pathological laboratory and of the Office of Vegetable and Forage Diseases, and the entire office of Fruit Diseases and the Office of Crop Physiology and Breeding. It is believed that the more intimate correlation of these related activities will facilitate the cooperative research upon many important complicated problems of production of horticultural crops, not only among the specialists of the new administrative organization but also with specialists of the state agricultural experiment stations and other institutions and with the horticultural industries.

WE learn from *Nature* that Mr. J. G. Pearce, director of the British Cast Iron Research Association, has been unanimously awarded by the judges the first prize of 100 guineas for a series of practicable proposals relating to "Goodwill in Industry." The competition was organized by the Glasgow and West of Scotland Association of Foremen Engineers and Draughtsmen, and the judges represented the three parties in industry—the employer, the worker and the technical or administrative officer.

UNIVERSITY AND EDUCATIONAL NOTES

THE new Hilles Laboratory of Applied Science of Haverford College will be completed in time for the opening of the second semester.

THOROUGHLY equipped biological and chemical laboratories have been installed at Long Island University. The biological laboratory is designed to accom-