

Stanley McCormick and Professor C.-E. A. Winslow made brief addresses expressing the regard and affection of the former students of the department for its head.

The evening closed with a speech by Professor Sedgwick himself in which he expressed his appreciation of the occasion, and spoke of his connection with the great university at Baltimore and the great technical school in Boston, and of the duty which now rests upon the biological department of the institute, to train men for the conduct of the sanitary reforms which are spreading so rapidly all over the union.

The chief event of the occasion was the presentation of a volume of biological studies, 'dedicated by his pupils to William Thompson Sedgwick, to express their regard and admiration for him as a friend, teacher, investigator and public-spirited citizen, and also to affirm their loyalty to the ideals for which he has always stood.' The volume, which has been prepared in secret and was a complete surprise to its recipient, has been published at the University of Chicago press under the editorship of Professor E. O. Jordan. It contains nineteen original contributions to biology and sanitary science, the authors and titles being as follows:

GARY N. CALKINS: 'Paramecium aurelia and Paramecium caudatum.'

HARRISON G. DYAR: 'The Life-History of a Cochlidian Moth, *Adoneta bicaudata* Dyar.'

GEORGE W. FULLER: 'Experimental Methods as Applied to Water- and Sewage-Works for large Communities.'

MARSHALL O. LEIGHTON: 'The Futility of a Sanitary Water Analysis as a Test of Potability.'

GEORGE C. WHIPPLE: 'The Value of a Pure Water.'

A. P. MATHEWS: 'A Contribution to the General Principles of the Pharmacodynamics of Salts and Drugs.'

PERCY G. STILES and CARL S. MILLIKEN: 'An Instance of the Apparent Antitoxic Action of Salts.'

EDWIN O. JORDAN: 'Experiments with Bacterial Enzymes.'

C.-E. A. WINSLOW and ANNE F. ROGERS: 'A Statistical Study of Generic Characters in the Coccaceæ.'

SAMUEL C. PRESCOTT: 'The Occurrence of Organisms of Sanitary Significance on Grains.'

STEPHEN DEM. GAGE: 'A Study of the Numbers of Bacteria Developing at Different Temperatures and of the Ratios between Such Numbers with Reference to Their Significance in the Interpretation of Water Analysis.'

C.-E. A. WINSLOW and E. E. LOCHRIDGE: 'The Toxic Effect of Certain Acids upon Typhoid and Colon Bacilli in Relation to the Degree of Their Dissociation.'

EARLE B. PHELPS: 'The Inhibiting Effect of Certain Organic Substances upon the Germicidal Action of Copper Sulphate.'

DANIEL D. JACKSON: 'A New Solution for the Presumptive Test for *Bacillus Coli*.'

HENRY S. AYERS: 'B. *Coli* in Market Oysters.'

AUGUSTUS WADSWORTH: 'Studies on Simple and Differential Methods of Staining Encapsulated Pneumococci in Smear and Section.'

ARTHUR I. KENDALL: 'An Apparatus for Testing the Value of Fumigating Agents.'

THEODORE HOUGH and CLARA E. HAM: 'The Effect of Subcutaneous Injections of Water, Ringers Fluid, and Ten Per Cent. Solution of Ethyl Alcohol upon the Course of Fatigue in the Excised Muscles of the Frog.'

BURT R. RICKARDS: 'Notes on a Case of Apparent Pulmonary Tuberculosis Associated with the Constant Presence of Diphtheria-Like Organisms in the Sputum.'

#### SCIENTIFIC NOTES AND NEWS.

YALE UNIVERSITY has conferred the degree of doctor of science on Professor Henry H. Donaldson, head of the department of neurology of the Wistar Institute of Anatomy, of the University of Pennsylvania, and on Dr. Francis Bacon, professor of surgery in the Yale Medical School; and the degree of doctor of laws on Dr. William W. Keen, professor of surgery at Jefferson Medical College, Philadelphia.

AMHERST COLLEGE conferred its doctorate of science on Dr. James Furman Kemp, professor of geology at Columbia University, and its doctorate of laws on Dr. Walter F. Willcox, professor of political economy and statistics at Cornell University.

WESLEYAN UNIVERSITY has conferred the degree of doctor of science on Dr. Ch. Wardell Stiles, of the Public Health and Marine Hos-

pital Service; on Edward Dennett Rowe, of the National Bureau of Standards, and on Dr. A. C. True, of the Office of Experiment Stations, U. S. Department of Agriculture.

HARVARD UNIVERSITY has conferred its doctorate of laws on Professor G. H. Palmer, professor of ethics at the university.

At the recent commencement of the University of Michigan the honorary degree of doctor of science was conferred upon Professor William A. Locy, of Northwestern University.

PROFESSOR ERNEST RUTHERFORD has received the degree of doctor of laws from the University of Wisconsin.

DARTMOUTH COLLEGE has conferred the degree of doctor of science on Dr. Warren Upham, librarian of the Minnesota Historical Society.

MR. F. C. S. SCHILLER, tutor at Corpus Christi College, has received the degree of D.Sc. from Oxford University.

THE University of Dublin will confer the honorary degree of Sc.D. on Colonel David Bruce, C.B., professor of tropical medicine at the Army Medical College; Professor J. H. Poincaré, professor of mathematics and astronomy at the Sorbonne; Mr. E. T. Whittaker, F.R.S., fellow of Trinity College, Cambridge, astronomer royal of Ireland; and Dr. A. E. Wright, F.R.S., pathologist and bacteriologist at St. Mary's Hospital, London.

THE University of Manchester will confer the degree of D.Sc. on Dr. Emil Fischer, professor of organic chemistry in the University of Berlin, and on Dr. Adolf von Baeyer, professor of organic chemistry in the University of Munich.

PROFESSOR SIMON NEWCOMB has been elected a member of the board of overseers of Harvard College.

DR. WM. McMURTRIE, vice-president of the American Association for the Advancement of Science in 1895 and president of the American Chemical Society in 1900, has been elected a trustee of Lafayette College.

DURING commencement week at Harvard University, the research students of Professor E. H. Hall presented him with a silver loving

cup. The occasion was the completion of twenty-five years of service in the department of physics of the university. The cup bore the following inscription:

"To  
Edwin Herbert Hall  
From his research students  
In testimony  
of their esteem and gratitude;  
In appreciation  
of his work in the field of discovery;  
his quarter-century of service  
in behalf of Harvard University.

His life an inspiration."

DR. GEORGE MACKLOSIE, from 1875 professor of biology at Princeton University, has been appointed professor emeritus.

THE prize of the Peter Wilhelm Müller foundation at Frankfort, consisting of a gold medal and 9,000 Marks, and awarded for the most important contributions to science, has been given to Dr. Ludwig Boltzmann, professor of theoretical physics at Vienna.

DR. STUTZER, assistant in the geological institute of the Freiburg (Saxony) Mining School, has been awarded a grant of 2,000 Marks by the committee of the Carnegie fund, to enable him to continue his investigations on iron deposits in Lapland.

PROFESSOR F. B. CROCKER, of Columbia University, has sailed for England. He will attend the meeting of the Institution of Electrical Engineers of Great Britain.

DR. ALEXANDER HILL, master of Downing College, Cambridge, has gone to West Australia to give university extension courses and to awaken interest in the establishment of a university in the colony.

PROFESSOR A. BERGT has been made acting director of the Leipzig Museum of Ethnology, in the room of the late Professor Obst.

DR. FRANCESCO PORRO, professor at the University of Genoa, has been appointed director of the National Observatory at La Plata.

At the Institute for the Experimental Investigation of Cancer at Heidelberg, Freiherr von Dungern, M.D., has been appointed head of the scientific department, and Privatdocent

von Wasielewski, head of the department of parasitological research.

PROFESSOR EDWARD C. PICKERING, director of the Harvard College Observatory, was selected to deliver the Phi Beta Kappa oration at Harvard University on June 28.

ACCORDING to the London *Times* an opinion has been widely expressed, both in Oxford and elsewhere, that the services rendered to archeology by Dr. Arthur John Evans should be commemorated by a portrait to be deposited in the Ashmolean Museum, of which he has for nearly a quarter of a century been keeper. The discoveries at Knossos are alone more than sufficient to justify this step; but Dr. Evans's achievements as a numismatist, historian and traveler have also earned for him the admiration of scholars. It is felt, moreover, that no more appropriate place for a memorial of him could be selected than the institution which has been raised, in the period during which he has presided over it, and mainly as the result of his energy, generosity and tact, to a place in the front rank amongst European museums. A committee, of which Dr. G. A. Macmillan (St. Martin's Street, London, W. C.) is the honorary treasurer, has been formed to promote the object in view. The portrait will be painted by Sir W. B. Richmond, and a reproduction in photogravure will be sent to every subscriber.

WE regret to record the death of Lieutenant Forbes Tulloch, R.A.M.C., which occurred in the Queen Alexandra Military Hospital, Millbank, on June 20. Lieutenant Tulloch contracted sleeping sickness in Uganda, where he had been sent under the auspices of the Colonial Office as a member of a commission appointed to investigate the causes of the disease and the means of prevention.

THE death, at the age of seventy-nine years, is announced of Sir George Thomas Brown, C.B., who was for many years chief of the Veterinary Department of the Privy Council and afterwards of the Board of Agriculture.

*Nature* reports the death of M. Edouard Piette, the distinguished archeologist, in his eightieth year. M. Piette was well known for his discoveries of prehistoric remains, among

which may be mentioned those in the caverns of Mas d'Azil (Ariège) and of Brassempouy (Landes). Before his death M. Piette presented his invaluable collections to the Museum of Saint-Germain-en-Laye.

THE senate committee on foreign relations has authorized Senator Bacon to report favorably the protocol providing for the establishment of an international institute of agriculture at Rome, Italy. There are about forty governments party to the arrangement. Studies will be made of all kinds of plant life and means of extermination of insects and other pests. The institute will receive the reports of the agricultural bureaus and societies of all countries. The Italian government will supply the buildings and the cost to other governments will be about \$5,000 a year each.

THE annual general meeting of the Royal Statistical Society was held on June 19 under the presidency of Major Craigie, C.B. Sir Richard Martin was elected president of the society for the ensuing session. The society's Guy medal in silver was awarded to Dr. W. N. Shaw, F.R.S., for his paper, entitled 'The Seasons in the British Isles since 1878,' read before the society in March, 1905. The subject of the essays for the Howard medal competition, 1906-7, was announced to be 'The Reformatory Effect in Criminality of Recent Prison Administration.' This competition is open to the public. Professor Edgeworth afterwards read a paper on 'The Generalized Law of Error.'

WE learn from *Nature* that at the seventy-eighth meeting of the Association of German Men of Science and Physicians, which will be held this year on September 16-22 in Stuttgart, there will be an exhibition of scientific and medical appliances and subjects as in previous years. The König Karls Hall of the Königliches Landesgewerbemuseum has been set apart for the purpose. All announcements and communications may be addressed to the president of the exhibition committee, Dr. Lampert, Archivstrasse 3, Stuttgart, from whom further particulars may be obtained.

A CORRESPONDENT of the London *Times* writes from Si-ning, in the province of Kan-

su, under date of April 6: "Dr. Albert Tafel, the eminent German geologist and explorer, who has traveled in many parts of Asia, and who took part in the expedition to Tibet in 1904 with Lieutenant Filchreer, when they barely escaped with their lives, has again just left this border city for the Tsaidam and Tibet. In January last he visited the Koko Nor in order to ascertain the depths of the lake at different places. His camp was attacked one evening by Tibetan robbers, and a hand-to-hand fight ensued. In trying to rescue one of his men Dr. Tafel received a sword wound in the forehead, and the attack was not repulsed without some difficulty. In Shan-si Dr. Tafel found some very interesting and rare fossils, and he has also secured some good photographs of a large waterfall on the Yellow River in the north of that province."

*Nature* states that the Society of German Engineers, which with its 20,000 members is now the largest technical society in the world, celebrated on June 11-14 the completion of the fiftieth year of its existence. The opening ceremony was held in the Reichstag building in Berlin, under the presidency of Dr. A. Slaby. Congratulatory addresses were delivered by the Prussian Home Secretary, the Prussian Minister of Education, the Oberbürgermeister of Berlin and the rector of the Berlin Technical School, as well as by numerous representatives of kindred societies in Germany and other countries, Mr. Bennet Brough (Iron and Steel Institute) speaking for the British societies and Professor K. E. Hilgard (American Society of Civil Engineers) for the American. The proceedings terminated with a lecture by Dr. W. von Oechelhauser on technical work past and present, in which he compared the engineering works of the ancients with those of modern times, and endeavored to forecast what the future of engineering would be. On June 12 a lecture was given by Dr. A. Riedler, on the development and present importance of the steam turbine; and on June 13 papers were read by Professor Muthmann, on methods of dealing with atmospheric nitrogen; and by Dr. Hoffmann, on the utilization of power in mines and metallurgical works. Throughout

the week an elaborate program of visits, excursions and social functions was arranged for the 1,231 members and 464 ladies who took part in the meeting. The German Emperor honored the society by accepting the Grashof gold medal, and by conferring decorations on the president and other prominent members. An interesting history of the society is given in *Engineering* of June 8. The growth of the society has certainly been remarkable. It was founded in 1856 at Alexisbad, in the Hartz, by twenty-three young engineers. Friedrich Euler was elected the first president, and Franz Grashof the first secretary and editor, the work of the society being carried on in the secretary's private study. The society now has a stately house of its own and a staff of forty-seven officials. Its weekly journal last year cost £26,162 for publishing and £6,425 for postage.

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#### UNIVERSITY AND EDUCATIONAL NEWS:

At the recent alumni meeting at Harvard University, it was stated that during the year graduates had contributed \$1,801,539.89 to the productive funds of the university, and that \$88,116.09 had been received for immediate use, making a total of \$1,889,655.98. This sum does not include the more than \$113,000 that the class of '81 has given to the university to be used as the corporation sees fit. It was also announced that through an anonymous gift of \$60,000 from a graduate and the cooperation of the city of Boston, a boulevard 100 feet wide with a forty-foot drive and broad park space and walks, will be laid out from the Fenway to Longwood Avenue as an approach to the new Harvard Medical School buildings.

It was announced by President Hadley at the Yale Alumni dinner that the total of the alumni fund for the year amounted to \$129,237 as compared with the \$53,500 announced a year ago.

A FUND of \$150,000, of which Mr. Carnegie contributed \$75,000, has been raised at Amherst College and will be used to provide for the work in geology and biology. It is planned to spend \$100,000 on a building and to use the balance of the money as an endowment fund.