

I should like to suggest to the Society the adoption of the following resolutions :

" *Whereas*, On the 26th day of September, our beloved colleague and friend, Jesse William Lazear, lost his life in the discharge of his duty as a member of the United States Yellow Fever Commission ;

" *And whereas*, His exceptional ability in his profession, his simplicity and modesty as a man, had greatly endeared him to all whose good fortune it was to know him ;

" *Be it resolved*, That we, his former colleagues and associates, do hereby express our profound sorrow at the loss to the community of one whose future was unusually rich in promise, to ourselves, of a dear friend and fellow student ;

" *And be it further resolved*, That we express to his wife and family our warmest and most heartfelt sympathy.

The resolutions were unanimously adopted.

SCIENTIFIC NOTES AND NEWS.

THE mid-winter meeting of the Council of the American Association for the Advancement of Science will be held at 1 o'clock, P. M., Friday, December 28th, in Room 12, McCoy Hall, Johns Hopkins University, Baltimore.

At the anniversary meeting of the Munich Academy of Sciences on November 14th, Professor W. C. Röntgen was elected an ordinary member ; Professor S. Günther, of Munich, was elected an associate member ; Professors W. Wundt, Leipzig, O. Bütschli, Heidelberg, W. His, Leipzig, and H. de Vries, Amsterdam, were elected corresponding members, and Professor Poincaré, Paris, a foreign member.

DR. KARL KLEIN, professor of mineralogy at Berlin, has been elected a corresponding member of the Paris Academy of Sciences.

THE Cross of Commander of the Legion of Honor has been conferred by the president of the French Republic on Sir William McCormac, president of the Royal College of Surgeons of England.

OXFORD University will confer the degree of D.Sc., *honoris causa*, upon Dr. Oliver J. Lodge, principal of the University of Birmingham.

THE Berlin Academy of Sciences has made the following appropriations : To Herr Engler, toward the publication of 'Das Pflanzenreich,'

2,000 Marks ; to Professor Otto Lehmann, of Karlsruhe, for the continuation of his investigations on fluid crystals, 1,200 Marks ; to Professors Friedrich Paschen and Karl Runge, Hanover, for an electro magnet, 1,400 Marks, and to Dr. Karl Peter, of Breslau, for studies on the development of lizards, 500 Marks.

DR. H. M. SMITH, of the U. S. Commission of Fish and Fisheries, has recently returned from a three month's trip to Europe, during which he visited a number of biological stations, including those at Plymouth and Naples. At the International Congress of Fisheries and Agriculture, held at Paris in September, Dr. Smith was the official delegate of this government.

A BUST of Charles H. Haswell, the first engineer-in-chief of the U. S. Navy, is in process of completion, by Dunbar, for the Union Club of New York. Mr. Haswell is now in his ninety-second year and is still active, going to business every day and looking no older, his friends say, than he did thirty years ago. He was the first officer in the navy to introduce scientific methods in engineering and constructed the engineer corps of that service. After he had organized the corps, he designed much of the then novel machinery of steam propulsion. A few of his steam war vessels still survive, in retirement. He published the first table-book for engineers, and that famous pioneer work is still published by the Harpers, and has passed through about fifty editions in something over a half century. His semi-biographical 'History of New York' is probably better known to the majority of his fellow townsmen.

CAMBRIDGE University will confer its M.A., *honoris causa*, on Mr. G. H. F. Nuttall, M.D., (California), Ph.D. (Göttingen), university lecturer in bacteriology and preventive medicine, and on Mr. T. Strangeways Pigg, university demonstrator of pathology.

DR. H. R. MILL has resigned the librarianship of the Royal Geographical Society, and will be succeeded by Mr. E. Heawood.

WE learn from *Nature* that at the annual meeting of the Royal Geological Society of Cornwall, Dr. Le Neve Foster was presented with the William Bolitho gold medal in recog-

nition of the distinction which he has attained as a mineralogist, and also of the great services rendered by him to the Society as curator during the period when he held the appointment of inspector of mines for Cornwall and Devon.

THE committee on a memorial of the late Dr. Joseph Coats, who was the first occupant of the chair of pathology in the University of Glasgow, has established a scholarship to be known as the 'Joseph Coats Memorial Scholarship in Pathology,' for the encouragement of original research. The value of the scholarship, which will be awarded once in two years, is the income of the endowment of £1,200. A brass memorial tablet will be placed in the Pathological Institute at the Western Infirmary, Glasgow.

PROFESSOR JOHN GARDINER, LL.D., who occupied the chair of biology in the University of Colorado, at Boulder, Colorado, from 1889 to 1898, died as a victim of consumption on November 26. Professor Gardiner, who was thirty-eight years of age, was a graduate of the University of London, B.Sc., 1884, and was awarded the table of the British Association at the Naples Biological Station in 1887. He was an enthusiastic student of biology, a man of rare culture in other lines and a stimulating teacher and lecturer.

WE regret to record the death of Dr. Adolph Pichler, at Innsbrück, at the age of 81 years. Dr. Pichler was for many years professor of geology at Innsbrück and was at the same time one of the more eminent German poets and men of letters. He was the author of tragedies, epics and lyric poems which are much esteemed by the critics. Even if there were only the names of Pichler and Camisso, the eminent German poet and botanist, it would be proved that a man of science is far more likely to be a poet than is the average man.

THE death is announced of Professor M. F. Kovalskij, professor of pure mathematics at Charkow; of Emanuel Formánek, professor of pharmacology at the Bohemian University of Prague, and of M. A. Pellerin, director of the botanical garden at Nantes.

PROFESSOR GEORGE E. HALE, director of the Yerkes Observatory, asks us to announce that

appointments will be made to two new positions on the staff of the Observatory, before July 1, 1901. The holders of these positions will be expected to devote the principal part of their time, a specified number of hours per day, to the measurement and reduction of photographs of spectra or to other work of computing. Opportunity will also be given to become familiar with the investigations in progress at the Observatory, and perhaps to take part in them during hours not devoted to measures and reductions. The applicant should be familiar with the practical use of the method of least squares, and must possess good eyesight. Preference will be given to men trained in the measurement and reduction of photographs. It is probable that one of the positions will be given to a man experienced in astronomical methods, the other to one whose work has been mainly in a physical laboratory. In neither case can assurance be offered that the appointment will be for more than one year, as funds are not now available for a longer period. The salary will be \$800. As it is desired to fill one of the positions about January 1, 1901, applications may be sent at once to the director of the Yerkes Observatory, Williams Bay, Wisconsin.

THE Postmaster-General issued, December 5th, the following order, No. 1,851: "Ordered: That Theodore C. Search, President of the National Association of Manufacturers, Philadelphia, Pa.; R. H. Thurston, director of Sibley College, Ithaca, N. Y.; Wm. F. King, president Merchants' Association, New York; Alfred Brooks Fry, chief engineer and superintendent of repairs, U. S. Public Buildings, New York, N. Y.; Wm. T. Manning, consulting engineer, Baltimore, Md.; and Frederick A. Halsey, mechanical engineer and editor *American Machinist*, New York, N. Y., be and they hereby are appointed a committee of experts to give consideration to all matters pertaining to the use of pneumatic tubes for the transmission of mail and to advise the Postmaster-General thereon pursuant to the Act of Congress approved June 2, 1900." The committee met December 10th and will report within ten days, advising the Postmaster-General regarding the lease or the purchase, the extension, the restriction, or the disuse, of that system of trans-

mission of mail matter. It is now in use in New York, Philadelphia and Boston, and is asked for in other large cities.

A DESPATCH from Berkeley states that Mr. D. O. Mills, of New York, has promised the University of California about \$24,000, to defray the expenses of a two years' astronomical expedition from the Lick Observatory to South America or Australia, the object of which is to study the movement of stars in the line of sight.

MR. GEORGE WHARTON JAMES will lecture before the Philadelphia Academy of Natural Sciences on the 14th instant on 'The Wallapais: the Bedouins of the Painted Desert of Arizona.' The illustrations will be from photographs taken last summer. Dr. John W. Harshberger will make a communication at the regular meeting of the 18th inst. on the 'Ecology of the New Jersey Strand Flora.'

DR. A. DONALDSON SMITH, the African explorer, is to lecture before the Philadelphia Geographical Society on January 2d.

WE regret to hear that the fine collection of Mr. Jas. L. Bowes, of Liverpool, the basis of Audsley and Bowes' 'Ceramic Arts of Japan' is likely to be sold and dispersed.

A COLLECTION of 1,200 Indian baskets has been presented to the Ferry Museum of Tacoma, Washington, by Captain Tozies.

THE geological survey of Louisiana will be continued this winter as usual under the immediate direction of Professor Harris, of Cornell University. He leaves for New Orleans, December 20th, taking with him Mr. J. Pacheco, a student in the University from Brazil, as assistant in place of Mr. A. Veatch, who has resigned to continue his work at the University.

A TELEGRAM has been received at the Harvard College Observatory, through Mr. Percival Lowell, stating that Mr. A. E. Douglass, while observing the planet Mars on December 7th, saw a projection on the north edge of Icarium Mare, which lasted seventy minutes.

THE Paris correspondent of the London *Times* reports that M. Emile Berr has just announced a scheme, at the head of which are M. Baudin, Minister of Public Works; M. Millerand, Minister of Commerce; M. Leygues, Minister of

Education; and M. Alfred Picard, the General Commissioner. The scheme consists in the preservation in that portion of the banks of the Seine on the Quai d'Orsay of 12 out of the 16 Palaces of the Nations in the recent exhibition. The palaces to be taken down would be those of Italy, Turkey and Servia at either end, and the palace of Spain in the middle, the space left vacant to be filled up by the pretty pavilion of Finland, now in the second row. Each palace thus preserved would become a special museum, the fine characteristic country house of England being converted into a museum of hygiene and bacteriology—a museum of honor to the memory of Pasteur and Lord Lister. These 12 museums, which will last ten years at least, would be kept up by the organizers, and the project honors both those who have invented the idea and the nations which designed these palaces. The cost of the undertaking would be about 1,000,000 f.

The Philippine Commission is about to establish an experimental farm about 200 miles from Manila which will be under the direction of Mr. Phelps Whitmarsh.

IN his annual report to the President, the Secretary of the Interior says, concerning the value of Forest preservation by the government: "The forest policy, as inaugurated by my immediate predecessor in office, has been continued during the year, and the results obtained in the conservation of the national forests and the protection of timber on reserved as well as unreserved lands have demonstrated the wisdom of its adoption, and the necessity, in the interest of the public, for its continuance and increased appropriations by Congress for the carrying on of the work. I concur in the commissioner's recommendation that not less than the appropriation of \$300,000 for the forest service, in connection with the creation and administration of forest reserves, be continued for next year, with a possible increase in case additional lands are set aside as forest reservations."

THE Association for Promoting Scientific Research by Women offers a prize of one thousand dollars for the best thesis presented by a woman on a scientific subject, embodying the results of her independent laboratory research in the bio-

logical, chemical or physical sciences. The theses must be submitted before the end of the year 1902. Further information may be obtained from the secretary *pro tem.*, Miss Florence M. Cushing, 8 Walnut St., Boston, Mass.

THE Röntgen Society of the United States meets at the Grand Central Palace, N. Y., on December 13th and 14th. A full program is announced, but it does not contain the names that should be represented in a society of this character.

AN International Engineering Congress will be held at Glasgow in connection with the International Exhibition of 1901. The arrangements are being made by the Council of the Scottish Institution of Engineers and Shipbuilders, and Lord Kelvin will preside.

THE New York State paleontologist Dr. John M. Clarke spent several weeks of the last season in Nova Scotia, New Brunswick and Quebec making collections from rocks which have for the most part been regarded by the Canadian geologists as of the same geologic age as the Helderbergian of New York. Careful studies and extensive collections were made at Arisaig, N. S., Dalhousie, N. B., and on the Gaspé peninsula, thus putting the museum in possession of a series of fossils of much importance for correlation and study which are not duplicated in this country outside of the National Museum at Washington. The accessions to the paleontologic collections during the past season, including all that has been acquired in the work above specified, have been not less than 10,000 specimens. The museum has also recently come into possession by purchase of the important collection of Cambrian fossils made by the late Silas W. Ford, of Troy, a very keen observer and careful student of the Cambrian rocks. This collection, though small, contains all the types of species described and illustrated by Mr. Ford, and much of the material is derived from localities at which it seems now impracticable to obtain others.

THE following are the arrangements for the lectures at the Royal College of Physicians of London for 1901: 'The Milroy Lectures on Public Health' will be given by Dr. J. F. Sykes, Medical Officer of Health for St. Pancras, on

February 28th, March 5th and 7th; the 'Goulstonian Lectures,' by Dr. Henry Head, F.R.S., on March 12th, 14th, and 19th; the 'Lumleian Lectures' by Dr. Frank Payne, on March 21st, 26th, and 28th, and the 'Croonian Lectures' by Professor Halliburton, F.R.S., in June.

IN the Registrar-General's quarterly report the population of the United Kingdom is estimated at nearly 41,000,000. The births for the last quarter exceed the deaths by 123,952. 105,402 persons were during the same time officially recorded as having emigrated.

UNIVERSITY AND EDUCATIONAL NEWS.

By the will of the late Rudolph S. Walton, of Philadelphia, the bulk of his estate of \$240,000 will go to Bethany College upon the death of his wife.

WE learn from the *British Medical Journal* that the Faculty of Medicine of Paris has decided that provision should be made for the teaching of tropical medicine. A chair of parasitology and another of bacteriology will be established. An appeal is to be made to the public for funds to carry the scheme into effect.

AT a recent meeting of the Board of Trustees of Clark University, Worcester, Mass., the following promotions were made: Dr. Edmund C. Sanford, to be professor of experimental and comparative psychology; Dr. Arthur G. Webster, to be professor of physics; Dr. William H. Burnham, to be assistant professor of pedagogy; Dr. Alexander F. Chamberlain, to be acting assistant professor of anthropology. The Trustees also voted, at the same meeting, to open all the privileges of the University to men and women upon equal terms.

DR. GUSTAV BAUER, professor of mathematics in the University at Munich, has retired at the age of eighty years.

DR. C. E. GUYE has been appointed professor of physics in the University of Geneva. Professor Weiss has been made full professor of mathematics and analytical mechanics at the German Polytechnic Institute at Prague.

DR. BRILLOUIN has been nominated to succeed the late Professor Bertrand as professor of general and mathematical physics at the Collège de France.