

has used, will be taken over by the University of Chicago and will be reorganized to provide adequate clinical and laboratory facilities. A new laboratory building will be erected in immediate conjunction with the hospital. The buildings and grounds of the Presbyterian Hospital are valued at about \$3,000,000.

A statement given out by Dr. Abraham Flexner says:

This project will be giving the city of Chicago a high-grade medical school and it will also provide for the first time in this country a post-graduate school adequately equipped and financed.

The school will be erected on the Midway Plaisance, and will thus form a part of the present University of Chicago plant. High-grade modern laboratory buildings will be provided for instruction in the students' first and second years, and a university hospital under complete control of the university, with laboratories and an out patient department, will be built on the Midway.

The entire teaching staff, clinical as well as laboratory, will be organized on the full time basis. That is, all the teachers for clinical as well as laboratory studies will give their entire time to teaching and research in the university hospital and medical school. Professors and their assistants will hold their posts on condition that they become salaried university officials and that they accept personally no fees whatever for any medical or surgical services.

The only medical schools in the country to-day which have embraced the full time teaching plan are Johns Hopkins Medical School and the medical department of Washington University, St. Louis.

The full-time scheme is a plan to insure to hospital work and medical teaching the undivided energy of eminent scientists whose efforts might otherwise be distracted by the conflicting demands of private practise and clinical teaching. The full time scheme is an appeal to scientific interests and devotion of the clinician, and the results so far realized through the plan at Johns Hopkins have been most satisfactory.

It should be of increasing consequence to the public that the training of those studying to become doctors should be in charge of the most competent men obtainable devoting their entire time to this work. Greatly increased efficiency and thoroughness should result, to the alleviation of suffering and the cure of disease.

The new institution thus to be established in Chicago will be equipped with every modern facility for medical instruction and with ample funds for operation.

SCIENTIFIC NOTES AND NEWS

THE American Academy of Arts and Sciences on November 15 presented the Rumford medals to Mr. Charles Greeley Abbot, of the Smithsonian Institution, for his researches on solar radiation.

DR. GEORGE F. KAY, head of the department of geology of the University of Iowa and state geologist of Iowa, has been elected university research lecturer for the current year. During each year the university lecturer visits the educational institutions of Iowa and delivers a lecture in which is involved the spirit of research. This policy has been followed successfully for about ten years.

DR. JOSEPH J. KINYOUN, bacteriologist of the health department of the District of Columbia, who, at the request of the authorities of Winston-Salem, N. C., has been for several months engaged in the reorganization of the health department of that city, has resumed his duties in Washington.

MAJOR-GENERAL GOETHALS, governor of the Panama Canal Zone, will pass into the retired list of the army on his own application dating from November 15, after forty years' service. The order of retirement affects only General Goethals's military status and does not operate to relieve him from duty as governor of the Canal Zone, but is preliminary to his retirement.

THE Sociedad Argentina de Ciencias Naturales, Buenos Aires, has elected as corresponding members Sir Ernest Shackleton and Mr. W. H. Hudson, the author of "Argentine Ornithology" and other works.

ON the occasion of his seventieth birthday on December 7, 1915, Professor A. Voss, of the University of Munich, received from the Munich technical high school the honorary degree of doctor of technical sciences.

At the annual meeting of the British Astronomical Association on October 25, it was

stated that Major F. L. Grant, who had been severely wounded at the front, had resigned the secretaryship. Mr. W. Heath, M.A., was appointed to the vacancy.

DR. J. L. E. DREYER has resigned his office as director of the Armagh Observatory, a position which he has held since 1882.

IN addition to the awards announced in April for papers read at the meetings, the council of the British Institution of Civil Engineers have made the following awards for papers published in the *Proceedings* without discussion during the session 1915-16: Telford Premiums to Messrs. Hubert Mawson (Liverpool), T. W. Keele (Sydney), R. W. Holmes (Wellington, N. Z.), W. Fairley (London), J. M. Greathead (Johannesburg), T. C. Hood (Manmad, India), and J. B. Ball (London); the Manby Premium to Mr. W. C. Cushing (Pittsburgh, U. S. A.), and the Crampton Prize to Major C. E. P. Sankey, D.S.O., R.E. (London). The Indian Premium for 1916 has been awarded to Sir John Benton, K.C.I.E. (Eastbourne).

PROFESSOR C. R. ORTON, of Pennsylvania State College, is on leave of absence for one year and has registered for graduate work at Columbia University. He will spend some time at the New York Botanical Garden in connection with his researches on parasitic fungi.

THE steam yacht *Alberta*, which is to carry a party of scientific men headed by Dr. Alexander Hamilton Rice up the Amazon River, left New York City, November 15, for South America. The expedition plans to make a topographical survey of portions of the Amazon valley and interior districts and studies of the diseases of natives in that section. The members of the party include, besides Dr. and Mrs. Rice, Dr. William T. Councilman, pathologist of Harvard University; Earl S. Church, of Newport, of the United States Coast and Geodetic Survey, and Ernest Howe, of Newport, geologist.

AT the recent meeting of the Clinical Congress of Surgeons held in the various institutions in Philadelphia, Dr. John C. Clark, chief

operating surgeon at the University Hospital and professor of gynecology at the University of Pennsylvania, was elected president. The next meeting of the congress will be held in New York City.

DEAN FRANCIS C. SHENEHON, of the College of Engineering of the University of Minnesota, has been engaged as consulting engineer since the middle of June on hydraulic investigations in Illinois and will be absent from the university almost continuously until the middle of December.

DR. ROBERT M. LEWIS has left for Shanghai, China, where he will be associated with Dr. McCracken, teaching in the University of Pennsylvania Medical School of China, which a few years ago became a department of St. John's University. He goes as one of the representatives of the Christian Association of the University of Pennsylvania and expects to return some time in the spring. He has lately been associated with his uncle, Dr. Howard A. Kelly, in surgical work at the Johns Hopkins University.

MR. EDWIN T. HODGE, who has been pursuing graduate studies in geology at Columbia University for the past two years, and has spent one summer season in field investigation in Porto Rico, has been given a position on the instruction staff in the department of geology in the University of British Columbia.

THE Harveian oration before the Royal College of Physicians of London was delivered by Sir Thomas Barlow on October 18.

THE address of the retiring president at the anniversary meeting of the London Mathematical Society, on November 2, was delivered by Sir Joseph Larmor, who took as his subject "The Fourier Harmonic Analysis: its Practical Scope and its Limitations."

THE Bradshaw lecture before the Royal College of Physicians of London was delivered on November 2 by Dr. Hector Mackenzie, whose subject was exophthalmic goitre. The Horace Dobell lecture was delivered on November 7 by Dr. H. R. Dean, on the mechanism of the serum reactions. Dr. W. H. R. Rivers has given a second course of FitzPatrick lectures

on medicine, magic and religion, on November 14 and 16.

ANOTHER course of Chadwick public lectures has been arranged. Professor Stirling gave the first of three lectures on fatigue and its effects on industry and efficiency, at the Royal Society of Arts, Adelphi, on October 27. Dr. Charles Porter began a course of three lectures on the health of the future citizen, at the Norwich Museum on November 2; Dr. J. C. Nash, county medical officer and chief school officer, Norfolk, will give a lecture on baby saving for the nation, at the Hampstead Central Library on November 20; and Mr. Paul Waterhouse will give the first of three lectures on architecture in relation to health and welfare, at the Surveyors' Institute, Westminster, on November 30.

THE birthplace of Weierstrass in Osterfelde in Westphalia has recently been marked by a memorial tablet.

THE death is announced of Arthur G. Smith, head of the department of mathematics and astronomy in the University of Iowa.

A. B. ALEXANDER, assistant in charge of the Bureau of Statistics of the United States Fisheries Commission at Washington, has died.

DR. JULIUS H. EICHBERG, professor of materia medica in the college of medicine, University of Cincinnati, died on October 31, 1916.

THE death is announced of Dr. Jean-Joseph Picot, formerly professor of clinical medicine at the Bordeaux School of Medicine, at the age of seventy-seven years, and of G. Salomon, professor of physiological chemistry at the University of Berlin, aged sixty-seven years.

MAURYCY RUDZKI, since 1902 director of the Cracow Observatory, has died at the age of fifty-four years.

AT the invitation of Dr. E. C. Pickering, the fourth annual meeting of the American Association of Variable Star Observers will be held at the Harvard College Observatory, on November 18, 1916.

IT is announced from Sweden, that no Nobel prizes for science or medicine will be awarded for this year, but that the money will be re-

served for 1917. The money for the prizes for 1915 has also been reserved and will be added to the special fund.

WE learn from *Nature* that Professor A. S. Donner, director of the observatory at Helsingfors, has presented to the university, of which he was formerly rector, the sum of £8,000, to ensure the continuance, and indeed the completion, of the "Catalogue photographique du Ciel, Zone de Helsingfors," begun under his direction in 1890. Hitherto the work has been paid for, partly by the university, partly by Professor Donner out of his private means. The sum now allotted by him is intended to cover all expenses for twelve years, when, at its present rate of progress, the task should be finished.

UNIVERSITY AND EDUCATIONAL NEWS

AMHERST COLLEGE has received a gift of \$100,000 from Mrs. Rufus Pratt Lincoln, of Plainfield, N. J., to establish a chair of science. Professor John M. Tyler, professor of biology in the college since 1879, has been elected the first Rufus Tyler Lincoln professor. Amherst College has also received a bequest of \$5,000, to be known as the Edward Tuckerman Fund, for work in botany.

PROFESSOR WILLIAM ESSON, late Savilian professor of geometry at Oxford, by his will gives ultimately to Merton College and the University of Oxford his estate, the value of which is about \$55,000.

DR. JOHN SHARSHALL GRASTY, formerly associate professor of geology at the University of Virginia, has resigned to take charge of the new department of mining geology recently established at Washington and Lee University. Dr. Albert William Giles has been appointed adjunct professor of geology in the University of Virginia.

THE *Bulletin* of the American Mathematical Society announces appointments of instructors in mathematics as follows: C. H. Clevenger in the school of mines of the University of Minnesota; C. N. Reynolds in Wesleyan University; P. R. Rider in Washington University;