

Problems in the Development of China"; March 5, Dr. C. L. Fenton, "Trails of a Fossil Hunter"; March 19, Professor H. H. Martin, "Are Mountains an Asset?"; April 2, Professor N. M. Fenneman, "The Geology of Cincinnati." The object of these lectures is primarily to acquaint the layman with the materials of geology and geography and to raise and answer questions of popular interest in each field.

ESTABLISHMENT of an Amundsen Memorial Fellowship for furthering exploration is announced by the American-Scandinavian Foundation as a tribute to the late Captain Amundsen, the Norwegian polar explorer. The fund will remain in trust until donations have increased it to a size where the income will be sufficient to permit contributions to exploration or geographical study. It will also be used to permit deserving young men who could not otherwise pay their own expenses to join important expeditions.

FRANCIS P. LEAVENWORTH, professor emeritus of astronomy at the University of Minnesota, died on November 12, at the age of sixty-nine years.

THE death of Professor George I. Kemmerer, of the department of chemistry of the University of Wisconsin, is announced. Dr. Kemmerer's death at the age of forty-nine years was sudden and unexpected.

STRICKLAND LANDIS KNEASS, vice-president of the engineering firm of William Sellers and Company, died on November 25 at the age of sixty-seven years. Mr. Kneass was known for an injector which he devised for locomotive boilers and for his work on the discharge of elastic fluids and the flow of steam.

SYDNEY ROYSTON PIKE, research fellow of the International Education Board at the Mount Wilson Observatory, died on November 22 at the age of twenty-five years. Before going to Pasadena Mr. Pike had been for three years assistant lecturer at the University of Leeds, where he had carried on research work on the solar atmosphere, which was published in the *Notices* of the Royal Astronomical Society.

A CORRESPONDENT writes: "Announcement is made of the death of William Theodore Gauss on November 14, at his home in Colorado Springs, Colorado, at the age of seventy-seven years. He had been ill for two weeks. Mr. Gauss was a grandson of the illustrious German mathematician, Carl Friedrich Gauss, and through his mother was a nephew of the noted German astronomer, Friedrich Wilhelm Bessel. For many years he spent much time and money in assembling a large and valuable collection of Gauss memorabilia, which is being now used by G. Waldo Dunnington, of Washington and Lee University, in

a biography of C. F. Gauss. This death reduces the number of Gauss's grandchildren to four, one of whom resides in California, and the remainder in Missouri. His brother, the Reverend Dr. Joseph H. Gauss, is superintendent of the Brookes Bible Institute in St. Louis, Missouri. He was born in Chariton County, Missouri, on July 1, 1851, and engaged in the wholesale shoe manufacturing business in Boston and St. Louis. He later moved to Colorado Springs where he was a broker and mining stock promoter. Mr. Gauss was conspicuous for his devotion to his family and home. His qualities of character and his profound sense of honor, with his unselfish nature, made him many friends throughout his life."

MISS EVELYN M. GRAY, editorial assistant of *Genetics* at the Connecticut Agricultural Experiment Station, died on November 14.

THE *Journal* of the American Mathematical Society states that by the will of Lieutenant-Colonel A. J. C. Cunningham, who died February 8, 1928, the London Mathematical Society will receive his library and also £1,000 for the improvement of methods of factorization of large numbers, and £2,000 for the publication of Colonel Cunningham's works. One twelfth of the residuary estate also will go to the London Mathematical Society, and one twelfth to the mathematical subsection of the British Association, for preparing new mathematical tables in the theory of numbers.

UNIVERSITY AND EDUCATIONAL NOTES

THE University of the City of Toledo was successful in its recent campaign for a \$2,850,000 bond issue for new buildings. Of this amount, \$300,000 will be expended for land and \$2,550,000 for buildings and equipment. In addition the university possesses land and buildings valued at more than \$1,000,000 and this property will ultimately be sold and the proceeds used for further construction. A committee of the board is now investigating proposed sites, and the erection of buildings will probably begin in January.

DARTMOUTH COLLEGE has received a gift of \$100,000 from Mrs. William P. Johnson in fulfillment of a promise made before his death by Mr. Johnson.

THE new library of the Philadelphia College of Pharmacy and Science was dedicated on November 26 with addresses by Mr. John B. Raser, of the class of 1871; Dr. Wilmer Krusen, president, and Dr. Charles H. La Wall, dean of pharmacy. The library equipment was a gift to the college by Mr. Raser and his brother, Mr. William H. Raser, of New York, a grad-

uate of the class of 1868, and Mr. Raser's son, Mr. William Heyl Raser, of Reading, Pennsylvania, a graduate of the class of 1901. The library, which is one of the largest and most complete pharmaceutical libraries in the United States, includes the extensive private library of scientific books formerly owned by the late Professor Joseph P. Remington.

A GRANT has been made by the Julius Rosenwald Fund of \$80,000 to be expended over a period of five years to the department of zoology of Howard University, to make possible the continuation of the research of Dr. Ernest E. Just and to build up a department offering instruction to graduate students.

DR. JOHN ROSCOE TURNER, formerly dean of the college of arts and science at New York University, was on November 28 installed as president of the West Virginia University. Among the representatives of the one hundred and forty-two American colleges and universities present at this occasion may be mentioned Dr. Samuel W. Parr, president of the American Chemical Society; Professor Paul M. Lincoln, head of the electrical engineering department of Cornell University, and Dr. David White, senior geologist of the U. S. Geological Survey, who addressed the science and engineering group; Dr. Thomas Peck Sprunt, associate in medicine at the Johns Hopkins University, and Dr. Harry M. Hall, president-elect of the West Virginia Medical Association, who addressed the medical group; Governor Howard M. Gore, governor of the State of West Virginia, and Dr. Albert F. Woods, director of scientific work in the U. S. Department of Agriculture, who addressed the agricultural group. Addresses were also made by noted jurists and educators before the law and education groups. The LL.D. degree was conferred upon Dr. Turner prior to his installation.

DR. HENRY DASPIT has been appointed dean of the graduate school of medicine of Tulane University of Louisiana, New Orleans, succeeding Dr. Edmund D. Martin.

THE following promotions on the Stanford faculty were made recently: Associate professors (to be professors): Charles Moser, in civil engineering; Clelia D. Mosher, in personal hygiene for women. Assistant professors (to be associate professors for a five-year term): Claus W. Jungeblut, in bacteriology; James Percy Baumberger, in physiology.

DR. E. J. LORENZ, of the California Institute of Technology, has been appointed professor of physics in the University of the City of Toledo.

EDGAR W. WOOLARD, assistant meteorologist, U. S. Weather Bureau, has resigned to accept an appoint-

ment as instructor in the department of mathematics at George Washington University.

FREDERICK JOHN MARRIAN STRATTON, fellow and tutor of Gonville and Caius College, formerly assistant director of the solar physics observatory, has been elected to the professorship of astrophysics at the University of Cambridge.

DISCUSSION AND CORRESPONDENCE

SAVING THE COCONUTS

WHEN recently in the Fiji Islands, I was able to see something of the important work in economic entomology carried on there. At Suva I found a Department of Agriculture, with Dr. J. D. Tothill in charge. I saw the details of the work and got much information from Messrs. R. W. Paine and H. W. Simmons. At Levuka I found Mr. and Mrs. T. H. Taylor, who had returned from an expedition to Trinidad (British West Indies), bringing five species of Coccinellid beetles (the best being *Cryptognatha nodiceps* Marshall) to prey on the scale insect *Aspidiotus destructor translucens* (Ckll.) (*A. transparens* of Green 1899, not 1890) which is so injurious to the foliage of coconut in Fiji. Mr. Taylor said that the scale was the third in importance of the coconut pests in Fiji. The first (until lately) being *Levuana*, discussed below; the second *Tirathaba*, a Pyralid moth with the aspect of a noctuid, the larva boring in the spathe. At Lautoka I found Mr. H. Greenwood, from New South Wales, in charge of the entomological laboratory of the Colonial Sugar Refining Company. He is a keen botanist as well as entomologist, and has been making a catalogue of all the insects of the Fiji Islands. I was able to witness the work against the sugar-cane weevil, *Rhabdocnemis obscurus* (Boisduval), by means of the dipterous parasite *Ceromasia sphenophori* Villen. This I hope to describe later, in a discussion of the pests of the sugar cane.

The matter of the greatest and most dramatic interest is the conquest of *Levuana* by an introduced dipterous (Tachinid) parasite. *Levuana iridescens*, a small, dark-colored, inconspicuous moth, was described by Bethune-Baker, a well-known English lepidopterist, in 1906. His material was from the Fiji Islands, and the genus *Levuana* contains to this day only the species *L. iridescens*. It belongs to the family Zygaenidae, known in the United States especially by those little caterpillars which appear in rows, like well-drilled soldiers, on the leaves of grape vines. The rather slug-like caterpillar of *Levuana* eats the green tissue of the coconut leaves, and when sufficiently numerous will kill the tree.