

supported it. For the immediate purposes of the Concilium it is necessary to raise a special fund to cover the purchase of new type-setting machines and other apparatus which will greatly facilitate all operations. During the present summer Dr. Field may be reached by letters addressed in care of the American Museum of Natural History. A special American committee will be formed during the meeting of the International Zoological Congress to take this matter in charge.

HENRY FAIRFIELD OSBORN

#### THE BRITISH ASSOCIATION'S GRANTS FOR SCIENTIFIC RESEARCH

At the recent Leicester meeting of the British Association for the Advancement of Science, grants for research were made to the amount of nearly £1,300. The characters of the grants and the approximate amount in pounds is as follows:

*Section A—Mathematical and Physical Science.* Seismological observations, £40; further tabulation of Gessel functions, £15; kites committee, £25; geodetic arc in Africa, £200; meteorological observations on Ben Nevis, £25.

*Section B—Chemistry.* Wave-length tables of spectra, £10; study of hydro-aromatic substances, £30; dynamic isomerism, £40; transformation of aromatic nitramines, £30.

*Section C—Geology.* Fossiliferous drift deposits, £11; fauna and flora of British Trias, £10; crystalline rocks of Anglesey, £3; faunal succession in the carboniferous limestone in British Isles, £10; erratic blocks, £18; pre-devonian rocks, £10; exact significance of local terms, £10; paleozoic rocks, £15; composition of Charnwood rocks, £10.

*Section D—Zoology.* Index animalium, £75; table at the Zoological Station at Naples, £100; heredity experiments, £10; fauna of Lakes of Central Tasmania, £40.

*Section E—Geography.* Rainfall and lake and river discharge, £5; investigations in the Indian Ocean, £50; exploration in Spitsbergen, £30.

*Section F—Economic Science and Statistics.* Gold coinage in circulation in the United Kingdom, £6.

*Section G—Engineering.* Electrical standards, £50.

*Section H—Anthropology.* Glastonbury Lake Village, £30; excavations on Roman sites in Britain, £15; anthropometric investigations, £13; age of stone circles, £53; anthropological photographs, £3; anthropological notes and queries, £40.

*Section I—Physiology.* Metabolism of individual tissues, £40; the ductless glands, £30; effect of climate upon health and disease, £35; body metabolism in cancer, £30; electrical phenomena and metabolism of arum spadices, £10.

*Section K—Botany.* Structure of fossil plants, £15; marsh vegetation, £15; succession of plant remains, £45.

*Section L—Educational Science.* Studies suitable for elementary schools, £10.

*Corresponding Societies Committee.* For preparation of report, £25.

#### SCIENTIFIC NOTES AND NEWS

At the Meudon Experiment Station, which is affiliated with the Collège de France, M. Daniel Berthelot has been appointed director of the laboratory for plant physics, and M. Muntz, director of the laboratory for plant chemistry.

PROFESSOR FRANCIS E. LLOYD has been placed in charge of the department of investigation of the International Rubber Company, Jersey City, N. J. His headquarters are at present with the Central Mexican Division, and he should be addressed at the Hacienda de Cedros, Mazapil, Zacatecas, Mexico.

DR. L. W. STEPHENSON has been appointed assistant geologist on the U. S. Geological Survey, and will be engaged for the next two years in the investigation of the geology and water resources of Virginia and the Carolinas.

FRANK M. SURFACE, Ph.D. (Pennsylvania), has been appointed associate biologist at the Maine Agricultural Experiment Station at Orono, Maine.

DR. DAVID T. DAY, who for twenty-one years has had charge of the preparation of the U. S. Geological Survey's annual report on the min-

eral resources of the United States, has requested to be relieved of duty as chief of the division of mining and mineral resources, in order to devote his time to the preparation for the survey of an exhaustive report on the petroleum resources of the United States. The director has accepted Dr. Day's resignation and has designated Mr. Edward Wheeler Parker to succeed him as chief of the division of mining and mineral resources. Mr. Waldeemar Lindgren will be associated with Mr. Parker in the work of this division, and to him has been assigned the scientific supervision of those parts of the annual report on mineral resources that relate to the metal-liferous ores.

PRESIDENT JORDAN, of Stanford University, has just returned from a visit to Australia and New Zealand. The purpose of this visit was the giving of a course of lectures in the University of Sydney on "The American University, its Organization and Ideals." Lectures on the same subject were given later at the universities of Melbourne and Adelaide and at the colleges at Christchurch, Wellington, Auckland and Wanganui in New Zealand. An address was given on "Agassiz as a Teacher" in the University of Sydney on the centenary of the birth of Agassiz.

DR. TEMPEST ANDERSON, Professor A. R. Forsyth, F.R.S., Mr. D. G. Hogarth, Lieut.-Colonel Prain, F.R.S., and Professor C. S. Sherrington, F.R.S., have been elected members of the council of the British Association for the Advancement of Science.

THE meeting of the British Association for the Advancement of Science, which is to be held next year at Dublin, under the presidency of Mr. Francis Darwin, will open on September 2. It will be remembered that Sir George Darwin presided over the South African meeting of the association two years ago. The London *Times* states that the election of Mr. Francis Darwin is appropriate in view of the fact that the meeting next year will mark the fiftieth anniversary of the publication of "The Origin of Species." "The Origin of Species" was, however, published towards the close of the year 1859.

It is proposed to recognize in some suitable manner the scientific services of Professor J. G. McKendrick, F.R.S., who has lately retired from the chair of physiology at Glasgow.

DR. G. HABERLANDT, professor of botany at the University of Graz, has been elected a member of the Vienna Academy of Sciences.

DR. VLADIMIR V. PODVYSOCKIJ, director of the Imperial Institute for Experimental Medicine at St. Petersburg, has been appointed chairman of the committee appointed by the Russian government for the investigation of cancer.

It is reported in the daily papers that Dr. H. W. Wiley, while abroad, is making arrangements for an international conference to be held in this country to consider legislation on pure food and adulterations.

PROFESSOR WM. BULLOCK CLARK, of the Johns Hopkins University, who is spending the summer in Europe, will attend as a delegate and member the celebration of the founding of the Geological Society of London, and of the German Geological Society. Professor Harry Fielding Reid, of the Johns Hopkins University, will also be a delegate to the anniversary meeting of the Geological Society of London.

MR. H. C. PLUMMER, assistant in the Oxford University Observatory, has been appointed fellow at the University of California and will be stationed at the Lick Observatory.

DR. CHARLES K. SWARTZ, working under the auspices of the United States and Maryland Geological Surveys, will this summer complete a portion of work on the Paleozoic formations of western Maryland, being assisted by Dr. Ohern and Mr. T. Poole Maynard.

DR. M. W. TWITCHELL, professor of geology at the University of South Carolina, will be engaged during the summer in investigating the Coastal Plain deposits of South Carolina.

HARLAN I. SMITH is making a preliminary archeological reconnaissance of Wyoming for the American Museum of Natural History. This state is the center of an extensive field unknown archeologically. Mr. Smith is endeavoring to interest local scientific and educa-

tional institutions in the work, in which they must cooperate if the problems are to be solved.

DR. ELLIOT R. DOWNING, head of the biological department of the Northern State Normal School, Marquette, Michigan, has leave of absence for a year and will spend it largely at the biological laboratories of Europe. Miss Theodosia Hadley, assistant in the department, will take his place during his absence. Dr. Downing's address, until October first, is Woods Hole, Mass.

THE Romanes lecture will be delivered by Lord Curzon, chancellor of Oxford University, on November 2. The subject will be "Frontiers."

THE council of the British Association has recommended the republication of Sir William Hamilton's mathematical memoirs in an accessible form.

SIR JOHN JACKSON has established in the University of Edinburgh a fund for the encouragement of physical research in honor of the late Professor Tait. The fund will yield an annual income of about \$1,000.

WE learn from *Nature* that Mr. Charles Hawksley has commemorated the centenary of the birth of his late father by offering the sum of £1,000 to the council of the Institution of Mechanical Engineers for the foundation of a scholarship or premium. The offer has been accepted by the institution, and the terms on which the gift is to be held are under consideration.

DR. WILLIAM THOMSON, emeritus professor of ophthalmology in Jefferson Medical College, Philadelphia, well known for his work in ophthalmology and especially in color-blindness, has died at the age of seventy-four years.

M. AUGUSTE PONSOT, professor of physics at Lisle, known for his researches on photography and cryoscopy, has died at the age of forty-eight years.

DR. EMIL PETERSEN, professor of chemistry at Copenhagen, has died at the age of fifty-one years.

THE death is also announced of Dr. Schlagdenhofen, director of the pharmaceutical faculty at Nancy.

SECTION H—anthropology—of the British Association, having passed a resolution to the effect "That the council of the British Association be asked to impress upon His Majesty's government the desirability of appointing an inspector of ancient monuments, fully qualified to perform the duties of his office, with full powers under the act, and with instructions to report periodically on his work with a view to publication," the council appointed a committee consisting of Sir John Evans, K.C.B., Sir Edward Brabrook, Mr. Sidney Hartland, Sir Norman Lockyer, K.C.B., and Lord Balcarras, to report on the proposal; and the report of the committee, having been approved by the council, was sent with a covering letter to the prime minister on December 19, 1906. The president also attached his signature to a memorial upon the same subject drawn up by the council of the Society of Antiquaries. It is understood that, whilst no immediate action will be taken by the government, the matter is receiving consideration, with the object of placing all ancient monuments in the United Kingdom under adequate protection and more effective supervision.

ARRANGEMENTS for cooperation in the investigation of underground waters and of the stratigraphy of Florida have been completed between the U. S. Geological Survey and the newly organized Geological Survey of Florida. Mr. M. L. Fuller, of the national survey, will have charge of the stratigraphic investigations, which will form a part of the broader investigations of the Atlantic and Gulf Coastal Plains being conducted by the United States and the local State Surveys under the direction of Mr. Fuller. The underground water studies will be divided between the state and the national surveys.

#### UNIVERSITY AND EDUCATIONAL NEWS

Two research studentships in science of the value of £60 and £40, respectively, have been founded at University College, London, by an