

Grants for research of funds contributed by private sources and received from the American Association for the Advancement of Science were assigned to: H. P. Klug, University of Idaho, "Photographic Records of Thermal Transitions in Substances," \$50; J. H. Ramskill, University of Montana, "Development of the Hypoderm of Western Yellow Pine," \$35; G. A. Matson, University of Montana, "Blood Studies of Montana Indians," \$25; Dr. Van A. Odle, of Spokane, Washington, apparatus and materials for experiment on "Electrokinetic Potential of Red Blood Cells," \$25.

It was announced that the Howard F. Flint Memorial Fund for research amounted to \$1,031.30. The income from this will be used, beginning with next year, as a grant along forestry and biological lines.

O. W. FREEMAN,  
*Secretary*

#### GRANTS IN AID OF RESEARCH BY THE GEOLOGICAL SOCIETY OF AMERICA

THE following is the list of grants in support of special research projects recently approved by the Geological Society of America:

A. A. Stoyanow, Tucson, Ariz. Grant of \$1,000 covering field expenses in a revision of the Mesozoic sequence at Bisbee, Ariz.

A. O. Woodford and Edward Taylor, Claremont, Calif. Grant of \$780 to cover living and traveling expenses in study of longitudinal profiles of streams, to be conducted in Europe during April and May, 1937.

Horace G. Richards, Trenton. Grant of \$550 covering traveling and field expenses in study of the Pleistocene deposits and faunas of the Gulf Coastal Plain.

U. S. Grant, Los Angeles. Grant of \$300 to be applied against field expenses and costs of preparing manuscript covering study of changes of the California coast.

F. H. Norton, Cambridge. Grant of \$1,500 covering assistance and materials in study of hydrothermal action in minerals, particularly those that change into the clay minerals.

W. Armstrong Price, Corpus Christi, Texas. Grant of \$1,200 covering traveling and field expenses of a reconnaissance of Pleistocene depositional plains of the northwestern Gulf Coastal Plain.

Charles T. Berry, Baltimore. Grant of \$100 covering completion of illustrations for paper on "Ophiuran Remains from Upper Senonian of South Limburg, Netherlands."

Alfred C. Lane, Cambridge. Grant of \$3,000 covering chemical analyses for studies directed to the determination of ages by the helium method.

W. E. Ford, New Haven, and Charles Palache, Cambridge. Grant of \$24,000 covering assistance for four years to complete the seventh edition of James D. Dana's "System of Mineralogy."

Robert T. Hill, Dallas, Texas. Grant of \$1,200 to cover

expenses connected with history of geological investigation in the Southwest.

Committee headed by T. S. Lovering. Grant of \$3,000 covering assistance and supplies in studies of the physical-chemical relation prevailing in a system consisting of a simple silicate and two volatiles at different temperatures and pressures.

John T. Lonsdale, Ames, Iowa. Grant of \$850 covering field and office expenses connected with study of the petrography and petrology of the igneous rocks of the Terlingua quadrangle, Brewster and Presidio Counties, Texas.

#### AWARDS OF THE JAMES F. LINCOLN ARC WELDING FOUNDATION

THE James F. Lincoln Arc Welding Foundation, which was recently established by the Lincoln Electric Company, Cleveland, and named by the trustees in honor of its president, is dedicated to providing the public and modern industry with accurate knowledge and information on matters affecting the application of electric arc welding to machinery and equipment. One of its primary functions is the stimulation of original design, to utilize this process in modern-day fabrication.

To further this object it is planned to distribute the sum of \$200,000 in 446 separate prizes for papers dealing with the subject as a primary process of manufacture, fabrication or construction in eleven major divisions of industry. The principal prize winner will receive not less than \$13,700. Other prizes range from \$7,500 to \$100, the latter sum to be awarded to each of 178 contestants who receive no other prize, but whose papers are adjudged worthy of honorable mention.

In order to assure equal competitive opportunity, similar prizes are offered in the eleven major divisions of industry covered by the contest, which are further subdivided to insure diversification of awards. An entrant is required to select in advance the particular sub-classification to which his paper will relate and must actually have participated in the work upon which the subject-matter of it is based. The classification follows:

*Automotive*—engines, bodies, frames and trailers, \$14,200; *aircraft*—engines and fuselage, \$10,500; *the railroad industry*—locomotives, freight cars, passenger cars and locomotive and car parts, \$14,200; *watercraft*—commercial and pleasure, \$10,500; *structural*—buildings, bridges, houses and miscellaneous, \$14,200; *furniture and fixtures*—house and office, \$10,500; *commercial welding*—job shops and garages, \$10,500; *containers*—contents stationary and contents moving, \$10,500; *welderies*—commercial and departments of plants, \$10,500; *functional machinery*—metal cutting, metal forming, electrical, prime movers, conveying, pumps and compressors, business, jigs and fixtures, parts and "not otherwise

classified," \$25,300; *industrial machinery*—process, construction, petroleum, steel-making, farming, household, food-making, textile and clothing, printing and "not otherwise classified," \$25,300.

Each entrant in a sub-classification will compete for five initial prizes of \$700, \$500, \$300, \$200 and \$150 to be awarded within the sub-classification. From the winners of these prizes will be chosen four papers in each major industry to receive additional prizes of \$3,000, \$2,000, \$1,000 and \$800.

#### RECENT DEATHS AND MEMORIALS

DR. EDWARD CURTIS FRANKLIN, emeritus professor of organic chemistry at Stanford University, died on February 4 at the age of seventy-four years.

DR. DUNCAN STAR JOHNSON, since 1906 professor of botany at the Johns Hopkins University, died on February 16 at the age of sixty-nine years.

DR. FRANK SMITHIES, professor of medicine at the Medical School of the University of Illinois, Chicago, died on February 9 at the age of fifty-six years.

*Nature* records the following deaths: Sir John A. F. Aspinall, past-president of the Institutions of Mechanical and Civil Engineers and also of the Institution of Civil Engineers of Ireland, on January 19, aged eighty-five years; and of David Ellis, professor of bacteriology and superintendent of the Schools of Pharmacy and Bakery in the Royal Technical College, Glasgow, on January 16, aged sixty-two years.

A CORRESPONDENT of the *Journal* of the American Medical Association reports that a bust of the late Professor Babes, founder of the first Pasteur Institute in Bucharest, was unveiled in Bucharest on October 27. The bust is placed in the square, opposite the Bucharest Bacteriologic Institute. Memorial addresses were made by Professors Bacaloglu, Ciuca, Manicattide, Marinescu and Proca. At the same time the remains of Professor Babes were interred in the crypt situated in the garden of the institute. He died ten years ago and was buried in the Bucharest Greek Catholic cemetery.

### SCIENTIFIC NOTES AND NEWS

THE Cardinal Newman Award for 1936 will be presented at the University of Illinois on February 21 to Dr. Alexis Carrel, of the Rockefeller Institute for Medical Research, New York City, for his contributions to medical science. The award is conferred annually upon the individual "who has made an outstanding contribution to the enrichment of human life in the fields of statesmanship, education, art, science or humanitarianism."

DR. RICHARD EDWIN SHOPE, of the department of animal and plant pathology of the Rockefeller Institute for Medical Research, Princeton, has been awarded the John Phillips Memorial Medal of the American College of Physicians for 1937, in recognition of his work on filterable viruses. The medal will be presented at the annual meeting of the college in April.

IN honor of the election of Dr. Frank C. Whitmore, dean of the School of Chemistry and Physics at Pennsylvania State College, as president of the American Chemical Society and as the recipient of the William H. Nichols Medal, a dinner was given by his colleagues on January 14. Dr. Grover C. Chandlee, head of the department of chemistry, presented to Dean Whitmore a congratulatory scroll signed by all staff members and graduate students in the School of Chemistry and Physics. Dr. Charles L. Parsons, secretary of the American Chemical Society, was present at the dinner and spoke briefly. Illness prevented Dr. Edward R. Weidlein, president of the society, from attending.

W. R. Ham, head of the department of physics, served as toastmaster.

DR. CHARLES WALLIS EDMUNDS, professor of materia medica and therapeutics in the School of Medicine of the University of Michigan, has been appointed Henry Russell lecturer for 1937. The award was made possible by an endowment established in 1925 by the will of the late Henry Russell and is planned "to honor and reward that member of the faculty who is declared to have accomplished the work of greatest scholarly distinction during the year past." Another portion of the endowment is used to make an award to one of the younger members of the faculty who is believed to show the greatest promise in scholarly achievement. The name of the latter customarily is announced at the time of the lecture, which probably will be given in the first week of May.

DR. DAVID HILBERT, professor of mathematics at the University of Göttingen, celebrated his seventy-fifth birthday on January 23.

DR. W. G. CROCKETT, professor of pharmacy at the Medical College of Virginia, Richmond, has been elected president of the American Association of Colleges of Pharmacy.

OFFICERS of the Society of American Bacteriologists elected at the annual meeting in Indianapolis are: *President*, Dr. James M. Sherman, Cornell University, Ithaca, N. Y.; *Vice-president*, Dr. Paul F. Clark, University of Wisconsin; *Secretary-treasurer*, Dr. I.