

Sloan, Jr. The grants just announced totaled \$235,000 and were awarded to 24 faculty members who are engaged in basic scientific research at 16 colleges and universities.

■ Ten predoctoral and four postdoctoral National Science Foundation scholarships will be available for study and research at the Duke University Marine Laboratory, Beaufort, N.C., for the summer of 1956. The predoctoral scholarships are open to graduate students from any institution; the postdoctoral scholarships are limited to applicants from the Southeast. Applications must be completed by 1 Apr. Blanks and information may be secured from Dr. I. E. Gray, Department of Zoology, Duke University, Durham, N.C.

■ Two predoctoral fellowships are offered jointly by the Geophysical Laboratories of the Carnegie Institution, Washington, D.C., and Johns Hopkins University, Baltimore, Md. The fellowships cover a 2- to 3-year period. The stipend for the first academic year is \$2400. During this year the fellowship holder is chiefly engaged in course work at the university.

Starting with the second year, he will spend most of his time at the Geophysical Laboratory working on a problem for his dissertation. The duration of this period is variable and may amount to approximately 2 years. The stipend starts at \$200 per month, plus provision for university tuition, and is increased to \$225 per month during the concluding period of tenure.

Application for the fellowship, supported by transcripts and recommendations, must be sent before 1 Mar. to Prof. Ernst Cloos, Geology Department, Johns Hopkins University, Baltimore 18, Md.

■ The Office of Naval Research Advisory Panel for Microbiology will meet next spring; proposals for ONR support of research in microbiology to be reviewed at that meeting must be submitted before 1 Mar.

■ Postdoctoral research associate appointments are being offered at Brookhaven National Laboratory that provide opportunities for research in physics, chemistry, biology, and engineering. Those phases of research are emphasized which deal with studies of the structure of the nuclei of atoms, high-energy particles, the utilization of the new nuclear techniques in basic chemical and biological problems, and in engineering studies of the utilization of nuclear energy.

A research associate may formulate and carry out his investigation either independently or in collaboration with a senior member of the laboratory staff. All usual and many special instrumental facilities are available.

Research associate appointments are made for a period of 1 year; they may be renewed for an additional year. During his term, the research associate is extended all the privileges afforded to regular members of the laboratory's scientific staff. Those interested should submit their applications by 15 Feb. to Dr. R. C. Anderson, Brookhaven National Laboratory, Upton, N.Y.

■ The Oak Ridge Institute of Nuclear Studies has recently issued a new brochure describing the Oak Ridge graduate fellowship program. The brochure explains that a graduate student in mathematics, chemistry, physics, engineering, biology, or other scientific field may, on application of his graduate dean, receive a fellowship appointment in order to carry out his thesis research at Oak Ridge National Laboratory or one of the other Atomic Energy Commission laboratories at Oak Ridge.

Although a fellowship may be awarded before a student has completed his academic work, it does not become effective until he has completed the course and language requirements and the preliminary or qualifying examinations at his university. His research is supervised by a committee appointed by his graduate dean and, on successful completion of research and the fulfillment of other university requirements, the fellow is awarded his degree by the university.

Basic stipend for doctoral candidates is \$2100 for 12 months; there is an additional annual allowance of \$300 for a wife and \$300 for one or more dependent children. Master's degree students in certain sciences may also be awarded fellowships; the basic stipend for master's candidates is \$1600 for 12 months, with an additional annual allowance of \$400 for a wife and \$300 for one or more dependent children. Initial appointments are for 1 year and are renewable. Fellows may not be engaged in any other work for remuneration during the term of their appointments. Copies of the brochure and additional information may be obtained by writing the University Relations Division, Oak Ridge Institute of Nuclear Studies, P.O. Box 117, Oak Ridge, Tenn.

Miscellaneous

■ The International Commission on Zoological Nomenclature has announced that on 30 June it will start voting on the following cases involving the possible use of its plenary powers for the purposes specified against each entry. Full details were published on 30 Dec. 1955 in the *Bulletin of Zoological Nomenclature* in parts 9 and 10 of volume 11.

1) *Bithynia* Leach, 1818 (cl. Gastropoda), validation.

2) *Osmerus* (cl. Pisces) as from Linnaeus, 1758, validation.

3) *Phillipsinella* Novak, 1886 (cl. Trilobita), validation.

4) *Gempylus* Cuvier, 1829, and *serpens* Cuvier, 1829 (*Gempylus*) Cl. Pisces), validation.

5) *Sequenziceratidae* Spath, 1924 (Cl. Cephalopoda, Order Ammonoidea), suppression.

6) *Lepisma* Linn., 1758 (Cl. Insecta), gender.

7) *Pagurus* Fab., 1775, and associated family-group name (Cl. Crustacea, Order Decapoda), suppression.

In addition, an application for the use of the plenary powers in the following case was published this month in part 12 of volume 9 of the *Bulletin*: Curtis, 1837, ed. 2 of *Guide arrangement Brit. Ins.*, suppression of, for the purpose of selection of type species of genera.

Comments should be sent as soon as possible to the commission's secretary, Francis Hemming, secretary to the commission, 28, Park Village East, Regent's Park, London, N.W.1.

■ The smallest and earliest human embryo, consisting of only two cells and no more than 5 days old, has been added to the collection of the Carnegie Institution of Washington's department of embryology in Baltimore, Md. This two-celled embryo—and one of 12 cells, another of 58 cells, and a fourth of 107 cells—close the last gap in the collection. It now has human embryos from the earliest stage of development to the end of the embryonic period.

■ A list of chairmen of departments of mathematics has been compiled and is now available upon request at the headquarters office of the American Mathematical Society, 80 Waterman St., Providence, R.I. Requests may also be sent to the office of the secretary of the society, Prof. E. G. Begle, Leet Oliver Memorial Hall, Yale University, New Haven 11, Conn.

■ The first article in the January issue of *The Scientific Monthly* is "Recent developments in the detection and measurement of infrared radiation" by R. A. Smith. The other articles in this issue include "Some merits and misinterpretations of scientific method" by Paul F. Schmidt, "Survey of the Gothic Natural Area" by Herbert A. McCullough, and "A biologist looks at human nature" by Ludwig von Bertalanffy.

In the "Science on the March" section there is an account of a "New attempt to cross Antarctic" by D. G. Stratton. A report by Hilary J. Deason on the AAAS traveling high-school science libraries is contained in "Association Affairs." Nine books are reviewed in this issue.