

made of scolecodonts in the hope of proving their uses as index fossils. \$300.

J. Harlan Johnson, Colorado School of Mines, will study Pennsylvanian and Lower Permian algal limestones from Kansas. He already has studied algal limestones from Colorado and New Mexico and will now demonstrate the importance of algal limestone deposition in Kansas during the late Paleozoic. \$300.

Vladimir J. Okulitch, University of Toronto, will return to the United States National Museum in Washington for four weeks to complete his study of North American Pleospongia. \$150.

Paleontology, Vertebrate—\$2,197.40.

Barnum Brown, the American Museum of Natural History, and E. M. Schlaikjer, Brooklyn College, will complete their revision of the Ankylosauria. \$750.

Miss Tilly Edinger, Harvard University, is to study the evolution of the brain in the horse evolutionary series by investigation of endocranial casts. \$217.40.

Alfred S. Romer, Harvard University, receives additional aid to complete his preparation of a bibliography of vertebrate paleontology of countries exclusive of North America up to 1933, which has been in process under a previous grant. \$900.

Horace Elmer Wood, 2nd, University of Newark, will devote the summer to stratigraphic work in Wyoming in continuing his correlation of the North American continental Tertiary. \$330.

Petrology—\$3,340.

V. T. Allen, St. Louis University, will collect clays from selected localities extending from Georgia to New Jersey and will study them by petrofabric, x-ray and chemical methods with special reference to the formation of diaspore, bauxite and "hydro-mica" by processes of weathering. \$450.

Ernst Cloos, the Johns Hopkins University, will intensify his quantitative investigation of rock flowage in relation to cleavage and folding by means of statistical measurements of deformed oolites in Paleozoic limestones of one of the outstanding uplifts in the Appalachians, the South Mountain uplift of Maryland and Pennsylvania. \$995.

John C. Haff, Colorado School of Mines, will study ocellar structure in lamprophyric dikes and alkaline extrusives. Petrofabric analyses will be made of grain orientation around vesicles and phenocrysts in an investigation of the mechanism of formation of ocelli and their part in the consolidation history of the rocks examined. \$70.

E. B. Mathews, the Johns Hopkins University, will complete his compilation and classification by geographical position of all available analyses of igneous rocks published prior to 1940, some 35,000 items. \$700.

Aaron C. Waters, Stanford University, will complete a petrologic and stratigraphic investigation of the Columbia River basalt in eastern Washington and adjacent parts of Oregon and Idaho. \$1,125.

THE OPTICAL SOCIETY OF AMERICA

THE twenty-sixth annual meeting of the Optical Society of America will be held in New York City

with headquarters at the Hotel Pennsylvania, on October 24 and 25.

Symposia of invited papers have always been important features of the meetings of the society. This year a symposium on the role of "Optics in the National Defense" is being arranged for the session on Friday morning, October 24. Due to uncertainties arising from the national emergency, it has seemed best to defer announcement of the speakers and their titles until the program of the meeting is mailed to the members early in October. The annual dinner of the society will be held on Friday evening. A special feature of this dinner will be the award of the Frederic Ives Medal. The sessions on Friday afternoon and on Saturday will be devoted to the presentation of contributed papers.

The time and place of this annual meeting, according to the preliminary announcement, were selected by the Board of Directors with an appreciation of the fact that many members of the society have additional duties because of the emergency which make attendance at meetings less convenient than in normal times. Through cooperation with other societies to which many of our members belong, there will be meetings of four national societies at the Hotel Pennsylvania during the week of October 20. The Society of Motion Picture Engineers will hold its meeting from October 21 to 23 inclusive. The Acoustical Society of America and the Society of Rheology will hold their meetings on October 24 and 25, simultaneously with that of the Optical Society. A joint luncheon is being arranged for Friday, October 24; and plans for other features of common interest are being formulated. It is hoped that the membership will demonstrate its appreciation of this consolidation of activities by making reservations immediately at the Hotel Pennsylvania.

Members desiring to communicate papers to the meeting should send abstracts to the secretary on the usual form. All abstracts must be in the hands of the secretary not later than noon of September 22. The appropriate grouping of contributed papers will be greatly facilitated if members intending to present papers will forward their abstracts to the secretary at the earliest possible date.

The meeting will be open to non-members as well as to members. All those interested are cordially invited to attend. Non-members who desire to receive the advance program, final notices or other information in regard to the meeting should address their requests to the secretary, Arthur C. Hardy, Massachusetts Institute of Technology, Cambridge, Mass. The chairman of the program committee is A. W. Kenney, E. I. du Pont de Nemours and Company, Wilmington, Del.