

New Books

Biological and Medical Sciences

Die Extracelluläre Flüssigkeit (Biochemie und Klinik Monographien in Zwangloser Folge). Dieter P. Mertz. Thieme, Stuttgart, Germany, 1962 (order from Intercontinental Medical Corp., New York). 252 pp. Illus. DM. 39.

Handbook of North American Birds. vol. 1, *Loons Through Flamingos*. Ralph S. Palmer, Ed. Yale Univ. Press, New Haven, Conn., 1962. 576 pp. Illus. Plates. \$15.

An Illustrated Catalogue of the Rothschild Collection of Fleas (Siphonaptera) in the British Museum (Natural History). vol. 3, *Hystrichopsyllidae*. G. H. E. Hopkins and Miriam Rothschild. British Museum (Natural History), London, 1962. 569 pp. Illus. Plates. £5 10s.

Laboratory Manual of General Biology. Clinton F. Schonberger. Saunders, Philadelphia, 1962. 363 pp. Illus. Paper, \$4.50.

Laboratory Studies in Biology. Addison E. Lee and Osmond P. Breland. Harper, New York, ed. 2, 1962. 319 pp. Illus. Paper, \$4.75.

Medical Enzymology, First European Symposium. Nicola Dioguardi, Ed. Academic Press, New York, 1962. 583 pp. Illus. \$22.

Mathematics, Physical Sciences, and Engineering

Radioisotopes in the Physical Sciences and Industry. vol. 1. Proceedings of the conference on the use of radioisotopes in the physical sciences and industry, held by the IAEA and UNESCO, September 1960, in Copenhagen. International Atomic Energy Agency, Vienna, Austria, 1962 (order from National Agency for International Publications, New York). 548 pp. Illus. \$8 (47 contributed papers).

Spectrochemical Abstracts. vol. 7, 1956-1959. Ernest H. S. van Someren and F. Lachman. Hilger and Watts, London, 1962. 104 pp. Illus. £2 2s.

Stereochemistry of Carbon Compounds. Ernest L. Eliel. McGraw-Hill, New York, 1962. 501 pp. Illus. \$15.

Structural Principles in Inorganic Compounds. W. E. Addison. Wiley, New York, 1961. 190 pp. Illus. Paper, \$3.25.

Water-Soluble Resins. Robert L. Davidson and Marshall Sittig, Eds. Reinhold, New York, 1962. 216 pp. Illus. \$7.50.

Miscellaneous Publications

(Inquiries concerning these publications should be addressed to the publisher or agency sponsoring the publication, not to Science.)

Joint Committee on Atomic Energy. "Hearings before the Joint Committee on Atomic Energy, Congress of the United States, Eighty-seventh Congress, Second Session, on development, growth, and state of the atomic energy industry, 1962. Superintendent of Documents, GPO, Washington, D.C. 696 pp. \$2.25.

U.S. Atomic Energy Commission. *Plow-*

share Program, Project Gnome. PNE-108P, "Particle motion near a nuclear detonation in halite," W. D. Weart (preliminary report, prepared by the Sandia Corporation; 70 pp., \$1.75); PNE-109P, "Earth deformation from a nuclear detonation in salt," R. B. Hoy and R. M. Foote (preliminary report, prepared by Stanford Research Institute; 54 pp., \$1.25); PNE-110P, "Seismic waves from an underground explosion in a salt bed," D. S. Carder *et al.* (preliminary report, prepared by the Coast and Geodetic Survey; 84 pp., \$2); PNE-111P, "Intermediate range earth motion measurements," L. M. Swift (preliminary report, prepared by Stanford Research Institute; 57 pp., \$1.50). U.S. Atomic Energy Commission, Washington, D.C., 1962 (order from Office of Technical Services, Department of Commerce, Washington, D.C.).

U.S. Geological Survey. *Bulletin*, No. 1028-S: "Investigations of Alaskan volcanoes. Geology of Unalaska Island and adjacent insular shelf, Aleutian Islands, Alaska," Harald Drewes, G. D. Fraser, G. L. Snyder, H. F. Barnett, Jr. (pp. 583-676, maps, 1961); No. 1082-M: "Contributions to economic geology. Bentonite deposits of the northern Black Hills district, Wyoming, Montana, and South Dakota," Maxwell M. Knechtel and Sam H. Patterson (pp. 893-1030, plates and maps, 1962); No. 1099-A: "Uranium-bearing coal in the Great Divide basin, Sweetwater County, Wyoming. Uranium-bearing coal in the central part of the Great Divide basin," George N. Pipiringos (104 pp., maps, 1961); No. 1110-A: "Contributions to Brazilian geology—nonferrous metals. Lead-zinc deposits of the Boquira district, state of Bahia, Brazil," Robert F. Johnson (33 pp., maps, 1962); No. 1142-H: "Contributions to economic geology. Future petroleum producing capacity of the United States," A. D. Zapp (36 pp., 1962). *Professional Paper*, No. 260-Z: "Bikini and nearby atolls, Marshall Islands. Fossil algae from Eniwetok, Funafuti and Kitadaitō-Jima," Harlan Johnson (pp. 907-950. Plates. 1961); No. 272-D: "Studies of evaporation. Evaporation from the 17 western states," J. Stuart Meyers (pp. 79-100, maps, 1962); No. 272-E: "Studies of evaporation. A practical field technique for measuring reservoir evaporation utilizing mass-transfer theory," G. Earl Harbeck, Jr. (pp. 101-105, 1962); No. 330-B: "Revision of some Paleozoic ostracode genera: *Aechminella*, *Amphissites kirkbyella*, and related genera," I. G. Sohn (pp. 107-160, plates, 1961); No. 334-H: "Shorter contributions to general geology. Geology of southeastern Ventura basin, Los Angeles County, California," E. L. Winterer and D. L. Durham (pp. 275-366, maps, 1962); No. 335: "Characteristic lower cretaceous megafossils from northern Alaska," Ralph W. Imlay (74 pp., plates and map, 1961); No. 338: "Geology and ore deposits of east Shasta copper-zinc district in Shasta County, California," John P. Albers and Jacques F. Robertson (106 pp., plates and maps, 1961); No. 349-A: "Geology of the Great Smoky Mountains, Tennessee and North Carolina. Geology of the Richardson Cove and Jones Cove quadrangles Tennessee," Warren Hamilton (54 pp., map, 1961); No. 374-C: "Shorter contribu-

tions to general geology. Jurassic (Bathonian or early Callovian) ammonites from Alaska and Montana," Ralph W. Imlay (32 pp., plates, 1962); No. 374-D: "Shorter contributions to general geology. Late Jurassic ammonites from the western Sierra Nevada, California," Ralph W. Imlay (30 pp., plates, 1961); No. 353: "Beryl resources of New Hampshire," James J. Page and David M. Larrabee (49 pp., maps, 1962); No. 354-I: "Shorter contributions to general geology. Occurrence and significance of marine animal remains in American coal balls," Sergius H. Mamay and Ellis L. Yochelson (pp. 193-224, plates, 1962); No. 356-D: "Uranium in carbonaceous rocks. Geology of uranium in coaly carbonaceous rocks," James D. Vine (pp. 113-170, map, 1962); No. 367: "Landslides along the Columbia River Valley, northeastern Washington," Fred O. Jones, Daniel R. Embody, Warren L. Peterson (98 pp., maps, 1961); 383-A: "Hydrology of volcanic-rock terranes. Storage of ground water behind subsurface dams in the Columbia River basalt in Washington, Oregon, and Idaho," R. C. Newcomb (15 pp., 1961); No. 384-A: "Studies of the natural phases in the system $MgO-SiO_2-H_2O$ and the systems containing the congeners of magnesium. The serpentine-group minerals," George T. Faust and Joseph J. Fahey (92 pp., 1962); No. 390: "Preliminary investigation of the geologic setting and chemical composition of the Pierre shale, Great Plains regions," Harry A. Tourtelot (74 pp., maps, 1962); No. 405: "Saline minerals of the Green River formation," Joseph J. Fahey (50 pp., 1962); No. 417-A: "Contributions to stream-basin hydrology. Relation between ground water and surface water in Brandywine Creek basin, Pennsylvania," F. H. Olmsted and A. G. Hely (20 pp., 1962). Superintendent of Documents, GPO, Washington, D.C.

U.S. Office of Education. OE-50023-58: "Statistics of higher education 1957-58. Receipts, expenditures, and property," Henry G. Badger (139 pp., \$1). Superintendent of Documents, GPO, Washington, D.C., 1961.

University of California. *Publications in Engineering*, vol. 5, No. 7, pp. 177-230: "Mathematical theories of plastic deformation under impulsive loading," J. A. Simons, F. Hauser, and J. E. Dorn (\$1.50). *Publications in Entomology*. vol. 19, pp. 1-108: "The Cerambycidae of North America. pt. 2. Taxonomy and classification of the Parandrinae, Prioninae, Spondylinae, and Aseminae," E. Gorton Linsley (\$2.50). *Publications in Zoology*, vol. 34, No. 1, pp. 1-122: "The systematics of *Oenothera* subgenus *Chylismia*," Peter H. Raven (\$2.50); vol. 62, No. 2, pp. 105-184: "Measures of the movements and population densities of small rodents," Daniel H. Brant (\$1.50); vol. 67, No. 4, pp. 321-368: "The biology of the euryhaline fish *Leptocottus armatus armatus* Girard (Cottidae)," Albert C. Jones (\$1). Univ. of California Press, Berkeley, 1962.

Yale University. *Peabody Museum of Natural History, Bulletin*, No. 16: "Upper Devonian pelecypods of the New York Chemung stage," A. Lee McAlester (92 pp., maps and plates). The Museum, New Haven, Conn., 1962.