

illustrated, for the most part with the original illustrations used by the various investigators. Nevertheless, the magnitude of the undertaking, covering as it does 26 orders of mammals in a single volume, precludes the possibility of exhaustive treatment, and many genera are not considered. Moreover, although the manual has the descriptive title "L'origine des mammifères et les aspects fondamentaux de leur évolution," volume 2 is rather largely a syllabus of descriptive morphology; the amount of interpretation about development and affinities included in each of the chapters covering the orders varies somewhat, according to the writer. In view of the fact that the treatise is intended to serve as a manual, it is, of course, proper that the amount of interpretation and speculation included should be judiciously balanced against the amount of factual information, as it is here, so that the text can better stand the test of time.

An interesting feature that Piveteau has included is a discussion, with certain examples, of primitive man's portrayal of Pleistocene mammoths, horses, and rhinoceroses, as represented, for example, on wood, on ivory, and on cavern walls, principally in France. Particularly noteworthy, moreover, is the addition of a section by Dechaseaux on endocranial casts, to most of the chapters covering the various orders. Interesting new material is illustrated for certain groups, as is certain material which had been previously described by Edinger and others.

The coverage of the manual is worldwide, and it would appear that full advantage has been taken of the more important literature. The approach is rather different from that in Scott's *Land Mammals of the Western Hemisphere*, quite apart from the latter's obvious geographic restriction. This volume is more nearly comparable to Zittel's *Text-book of Palaeontology*, although it is much more comprehensive and, of course, up to date.

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**National Advisory Committee on Research in the Geological Sciences, Canada, Eighth Annual Report, 1957-58.** Geological Survey of Canada, Ottawa, Canada, 1958. 165 pp. \$0.50.

The Advisory Committee has three purposes: "to stimulate and co-ordinate geological research carried on in Canada; to suggest research projects that should receive attention; and to aid in having these projects undertaken." The committee does not carry on research; its function is to stimulate research by

the universities, by the federal and provincial departments of mines, and by other organizations equipped for the work.

The first part of this report gives a summary of the work of the committee for the period 1 Sept. 1957 to 31 Aug. 1958. The second part contains the report of the subcommittees covering the different fields of the geological sciences. Members of the committee and of each subcommittee are listed.

The annual survey of current geological research in Canada, compiled by I. F. Henderson, is included. This is a record of research in the universities, in the federal and provincial departments of mines, and in other, nonindustrial institutions. It does not include research by mining and oil companies. The research projects listed are grouped under main headings that cover the various branches of geological science.

The author index lists after each name the numbers of the projects, as listed in the survey bibliography, on which the individual is currently engaged.

### Miscellaneous Publications

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

*Accreditation in Higher Education.* Lloyd E. Blanch, Ed. Office of Education, Washington, 1959 (order from Supt. of Documents, GPO, Washington 25). 255 pp. Cloth, \$2.50; paper, \$1.50.

*Action for Science under NDEA.* Report of an association conference on the National Defense Education Act of 1958. National Science Teachers Assoc., Washington 6, 1959. 23 pp. Single copy, free.

*Aging.* A review of research and training grants supported by the National Institutes of Health. G. Halsey Hunt and Stanley R. Mohler. National Institutes of Health, Bethesda, Md., 1958 (order from Supt. of Documents, GPO, Washington 25). 50 pp. \$0.35.

*Amphibians and Reptiles of Southern Florida.* Bulletin of the Florida State Museum, Biological Sciences, vol. 3, No. 5. William E. Duellman and Albert Schwartz. Univ. of Florida, Gainesville, 1958. 146 pp. \$1.63.

*Council of the Indian Institute of Sciences, Bangalore. Forty-Eighth Annual Report, 1956-57.* The Institute, Bangalore City, India, 1957. 236 pp. This report provides a list of members of the council and of the staff, and a summary of the work in each department.

*Ectoparasites of the Cottontail Rabbit in Lee County, Northern Illinois.* Biological Notes No. 38. Lewis J. Stannard, Jr. and Lysle R. Pietsch. 18 pp. *A Guide to the Aging of Pheasant Embryos.* Biological Notes No. 39. Ronald F. Labisky and James F. Opsahl. 4 pp. Natural History Survey Division, Urbana, Illinois, 1958.

*Educating Children in Grades Four, Five and Six.* Bull. 1958, No. 3. Gertrude M. Lewis. 222 pp. \$1. *English Language*

*Arts in American High Schools.* Bull. 1958, No. 13. Arno Jewett. 128 pp. \$0.50. Office of Education, Washington, D.C., 1958 (order from Supt. of Documents, GPO, Washington 25).

*The Effect of Fellowships on Acceleration of Ph.D. Attainment.* Tech. Rept. No. 14. Lindsey R. Harmon. Office of Scientific Personnel, National Acad. of Sciences-National Research Council, Washington 25, 1959. 13 pp.

*Foot Canyon Pueblo, Eastern Arizona.* Fieldiana: Anthropology, vol. 49, No. 2. John B. Rinaldo. 152 pp. \$4. *Three New Birds from West Africa.* Fieldiana: Zoology, vol. 39, No. 25. Austin L. Rand and Melvin A. Traylor, Jr. 4 pp. \$0.15. *Three New Birds from the Philippine Islands.* Fieldiana: Zoology, vol. 39, No. 26. Austin L. Rand and D. S. Rabor. 3 pp. \$0.10. *New Species of Fresh-Water Catfishes from North Borneo.* Fieldiana: Zoology, vol. 39, No. 27. Robert F. Inger and Chin Phui Kong. 16 pp. \$0.40. Chicago Natural History Museum, Chicago, Ill. 1959.

*Highlights of Progress in Research on Cancer.* pt. 1, 1957; pt. 2, January-March 1958. Items of interest on program developments and research studies conducted and supported January 1957 through March 1958 by the National Cancer Institute. PHS Publ. No. 623. National Cancer Institute, National Institutes of Health, Bethesda, Md., 1959 (order from Supt. of Documents, GPO, Washington 25). 54 pp. \$0.25.

*Human Tolerance to Prolonged Forward and Backward Acceleration.* WADC Tech. Rept. 58-267. ASTIA Document No. AD 155749. Neville P. Clarke and Stuart Bondurant. 29 pp. *The Use of Color in Coding Displays.* WADC Tech. Rept. 55-471. ASTIA Document No. AD 204214. Donald W. Conover and Conrad L. Kraft. 16 pp. Wright Air Development Center, Wright-Patterson Air Force Base, Ohio, 1958 (order from the Armed Services Technical Information Agency, Arlington Hall Station, Arlington 12, Va.).

*Migrations in New World Culture History.* Raymond H. Thompson, Ed. Univ. of Arizona Press, Tucson, 1958. 68 pp. \$1.

*National Science Foundation, Eighth Annual Report.* For the fiscal year ended 30 June 1958. National Science Foundation, Washington, D.C., 1959 (order from Supt. of Documents, GPO, Washington 25). 246 pp. \$1.

*A New Frog of the Genus Telmatobius from Southern Ecuador.* Occasional Papers, No. 7. Harold E. Munsterman and Alan E. Leviton. Natural History Museum of Stanford Univ., Stanford, Calif., 1959. 5 pp.

*Post-Graduate Training in the Public Health Aspects of Nuclear Energy.* Fourth report, Expert Committee. WHO Tech. Rept. Ser. No. 154. 1958. 55 pp. \$0.60. *Hospital Laboratory Services.* Second report, Expert Committee. WHO Tech. Rept. Ser. No. 160. 1959. 30 pp. \$0.30. *Expert Committee on Addiction-Producing Drugs.* Ninth report, Expert Committee. WHO Tech. Rept. Ser. No. 161. 1959. 15 pp. \$0.30. *Expert Committee on Malaria.* Seventh report, Expert Committee. WHO Tech. Rept. Ser. No. 162. 1959. 50 pp. \$0.60. World Health Organization, Geneva, Switzerland.