

descriptive approach, but emphasizes comparative description of single egg-characters from group to group. Conclusions are best presented in several phylogenetic trees; these trees in some ways appear too smooth for the data offered, but they do present a challenge against which subsequent findings may be tested.

"A preliminary discussion of the phylogeny of the suborder" (pp. 350-78) anticipating the next two volumes probably should have awaited them. Agreement with Cobben's statement that the student is faced with "a bewildering array of 'higher classification'" comes easy, but the bewilderment is not allayed by a partial review of the literature and comments on scattered structures culminating in a phylogenetic tree (fig. 360) with a series of purposely unnamed and undescribed derived branches presenting the author's "original" idea that "all Heteroptera descended from Amphibicorisae-like ancestors." Unnamed confusion is no less bewildering.

The list of 44 points of "Summary and conclusions" makes a useful guide to enable one to follow the generalizations while reading the wealth of description and examples. The 21 pages of references certainly should have started with the footnote from page 421 which informs the reader that "our list of references should be supplemented by the comprehensive bibliography of Southwood's publication." A brief (18 pp.) summary of the book in Dutch is included.

Some taxonomically significant changes are sandwiched in the discussions. The composition of several supercategories is changed ("Geocorisae" in a taxonomic sense is eliminated); and even a specific synonymy is made (p. 42): "Based on adult characters . . . [*Omania*] *samoensis* is conspecific with *marksae*. . . ." [These species were well separated by Herring and Chapman, *Proc. Ent. Soc. Washington* 69, 354-59 (1967).]

New meanings for old words with long-established, simple definitions can be misleading in subsequent application. The word "aft" is adopted as an embryological term and defined as referring to the side of the egg "most closely associated with the substrate": this is surely quite unlike the usual English meaning of behind, posteriorly, or caudad, and quite likely will cause confusion.

Cobben says "it may be some time" before the remaining parts of the work

are published. One hopes parts 2 and 3 continue to evidence the scholarly attention of the first part and take time to refute rather than ignore the reasoning on which other classifications have been based. There is still the potential trap of building a classification on one or two characters, searching out those facts that support it and simply dismissing those that do not.

RICHARD FROESCHNER  
U.S. National Museum,  
Washington, D.C.

## Hormones: Control and Effects

*Frontiers in Neuroendocrinology*, 1969. WILLIAM F. GANONG and LUCIANO MARTINI, Eds. Oxford University Press, New York, 1969. xii + 444 pp., illus. \$19.50.

Neuroendocrinology is a science which encompasses not only the neural control of endocrine secretion, but also the effects of hormones on behavior and virtually all of the complex interactions between the brain and the internal environment. *Frontiers in Neuroendocrinology*, 1969 is one of the few successful attempts to review, summarize, and correlate the findings from all the diverse disciplines comprising the field. It is the first of a biennial series to be published to update a previous two-volume survey (*Neuroendocrinology*, edited by Martini and Ganong; Academic Press, 1966-67) by reviewing areas in which there have been recent advances, innovations, or controversies.

A detailed description of the fine structure of the median eminence, with attention to its phylogenetic organization and the development of function, constitutes an excellent first chapter. Other chapters devoted to the hypothalamus correlate changes in catecholamine concentrations or single and multiunit electrical responses of various regions with endocrine secretion and activity. The effects of isolation of the hypothalamus from the rest of the brain on endocrine function are also reviewed. Interspersed among these hypothalamus-oriented chapters are reviews on the regulation of growth hormone and gonadotropin secretion, fluid volume and vasopressin secretion, and the regulation of renal sodium excretion by the sympathetic nervous system. The apparently random order of these reviews and those on the effects of peptides on behavior, "short" feedback control mechanisms, and the mechanisms of action of releasing fac-

tors gives the impression that organization was on a first-received, first-printed basis. But there is clearly something for everyone interested in the field. In some areas the advances have not been recent or dramatic, and one might question their inclusion when such topics as that of the controversial pineal body are omitted.

In several of the reviews the controversial nature of the topic, of the experimentation or of the results or their interpretation, frequently disappears, and one might be led to believe that the issues are more settled than they actually are. Short descriptions of the experiments and results would have eliminated this problem in several instances and would have placed the reader in a better position to form his own conclusions without having to return to the original work. The addition of at least a brief summary on the "long," "classical" feedback mechanism or on control systems in general would have strengthened the description of the "short," "internal" feedback mechanism; in the experiments discussed there were obvious instances when "open-loop" conditions and the absence of adequate feedback existed. The importance of the "short" feedback system must be established in the presence of "long" feedback as well as in its absence.

The word "frontiers" used in the title, meaning unsettled, not fully explored regions, is an appropriate description of the field or territory neuroendocrinology. Some of its frontiers are older and more settled, more carefully mapped, than others. They are, however, still frontiers. If the book offers nothing else, it presents several good reviews of a number of important areas in neuroendocrinology as they exist, mapped but unsettled, at this moment.

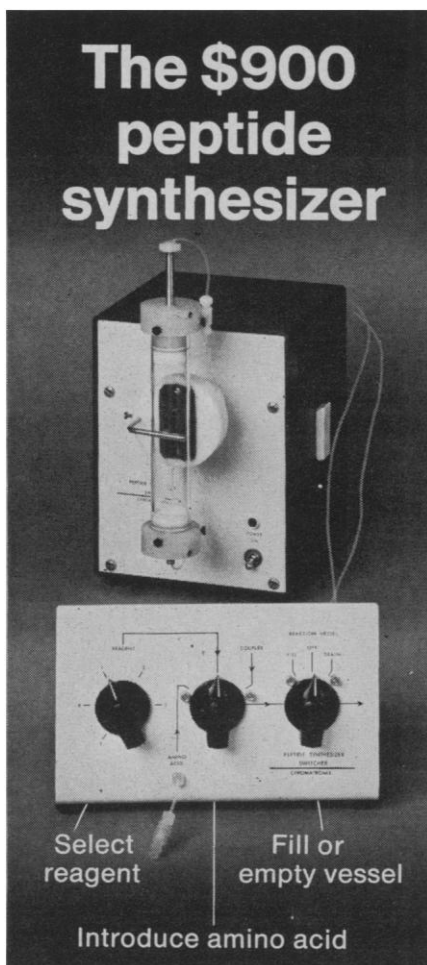
JAMES A. MCCLINTOCK  
Department of Anatomy,  
Duke University,  
Durham, North Carolina

## Books Received

*Abstract Methods in Partial Differential Equations*. Robert W. Carroll. Harper and Row, New York, 1969. x + 374 pp. \$14.95. Harper's Series in Modern Mathematics.

*A.D. Twenty-One Hundred*. A Narrative of Space. John Williams Andrews. Illustrated by Arthur Schaffert. Branden, Boston, 1969. 56 pp. \$4.25.

(Continued on page 1074)



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**Air Pollution Primer.** Rena Corman. National Tuberculosis and Respiratory Disease Association, New York, 1969. 104 pp., illus. Paper.

**American Education in Foreign Perspectives.** Twentieth Century Essays. Stewart E. Fraser, Ed. Wiley, New York, 1969. xviii + 526 pp. Cloth, \$9.95; paper, \$5.95.

**American Government.** Conscious Self Sovereignty. John M. Dorsey. Center for Health Education, Detroit, 1969. xviii + 142 pp., illus. \$4.95.

**Analysis and Design of Structural Sandwich Panels.** Howard G. Allen. Pergamon, New York, 1969. xvi + 284 pp., illus. Cloth, \$7; paper, \$5.50. Commonwealth and International Library: Structures and Solid Body Mechanics Division.

**Analytic Functions and Distributions in Physics and Engineering.** Bernard W. Roos. Wiley, New York, 1969. xvi + 528 pp., illus. \$19.95.

**Annapolis Visit.** A Photographic Essay on Maryland's Ancient City. Mary Mitchell. Barre Publishers, Barre, Mass., 1969. 122 pp. \$10.

**Annual Review of Astronomy and Astrophysics.** Vol. 7. Leo Goldberg, David Layzer, and John G. Phillips, Eds. Annual Reviews, Palo Alto, Calif., 1969. viii + 718 pp., illus. \$8.50.

**Apache Odyssey.** A Journey between Two Worlds. Morris E. Opler. Holt, Rinehart and Winston, New York, 1969. xviii + 302 pp., illus. Paper, \$3.95. Case Studies in Cultural Anthropology.

**Archaeological Excavations at 'Ubeidiya, 1964-1966.** M. Stekelis, O. Bar-Yosef, and Tamar Schick. Israel Academy of Sciences and Humanities, Jerusalem, 1969. 30 pp. + plates. Paper, \$4.

**Archeology on the Shonto Plateau, Northeast Arizona.** Keith M. Anderson. With an Appendix on Bird Remains from Vicinity of Navajo National Monument, Arizona. Lyndon L. Hargrave. Published in cooperation with the National Park Service by Southwestern Monuments Association, Globe, Ariz., 1969. xii + 68 pp., illus. Paper, \$2. SWMA Technical Series, vol. 7.

**Arid Lands in Perspective.** Including AAAS Papers on Water Importation into Arid Lands. William G. McGinnies and Bram J. Goldman, Eds. AAAS, Washington, D.C.; University of Arizona Press, Tucson, 1969 (order from University of Arizona Press). x + 422 pp., illus. \$18.

**Bedside Diagnostic Examination.** Elmer L. DeGowin and Richard L. DeGowin. Macmillan, New York; Collier-Macmillan, London, ed. 2, 1969. xiv + 946 pp., illus. \$9.95.

**Behavior Control.** Perry London. Harper and Row, New York, 1969. x + 246 pp. \$6.95.

**Biochemical Predestination.** Dean H. Kenyon and Gary Steinman. McGraw-Hill, New York, 1969. xviii + 302 pp., illus. Cloth, \$12.50; paper, \$4.95.

**The Biochemistry of Alkaloids.** Trevor Robinson. Springer-Verlag, New York, 1968. x + 152 pp., illus. \$9.75. Molecular Biology, Biochemistry, and Biophysics, vol. 3.

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**Biochemistry of Ribosomes and Messenger-RNA.** An International Symposium. Castle Reinhardbrunn, 1967. Ruth Lindigkeit, Peter Langen, and Jochen Richter, Eds., Akademie-Verlag, Berlin, 1968. 612 pp., illus.

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**Contributions in Mammalogy.** A Volume Honoring Professor E. Raymond Hall. J. Knox Jones, Jr., Ed. Museum of Natural History, University of Kansas, Lawrence, 1969. 428 pp., illus. \$5. Museum of Natural History Miscellaneous Publication No. 51.

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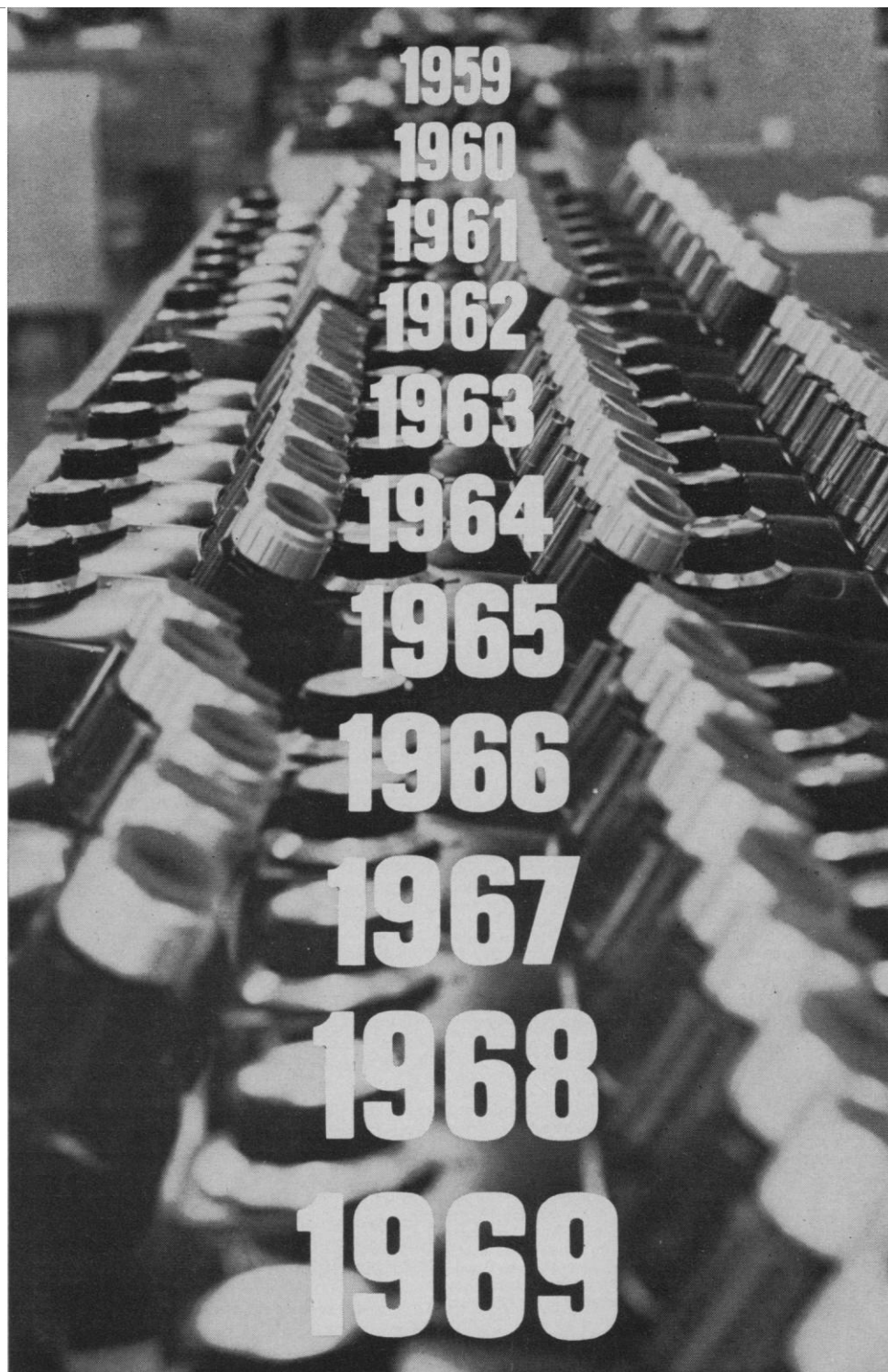
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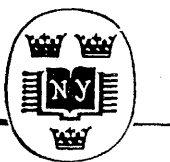
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distributor, Phiebig, White Plains, N.Y.). viii + 204 pp., illus. \$12.70.

**Dos Mamíferos Marinos de Baja California.** Daniel Lluch Belda, Lowell Adams, and S. G. Losocki. Instituto Mexicano de Recursos Naturales Renovables, Mexico, D.F., 1969. viii + 118 pp., illus. Paper, \$3.

**Drugs and Alcohol.** Kenneth L. Jones, Louis W. Shainberg, and Curtis O. Byer. Harper and Row, New York, 1969. x + 134 pp., illus. Paper, \$2.50.

**Earthquake Interpretations.** Ruth B. Simon. Colorado School of Mines, Golden, ed. 2, 1969. 100 pp., illus. Paper, \$2.

**Ecological Aspects of the Mineral Nutrition of Plants.** Ninth symposium of the British Ecological Society, Sheffield, England, April 1968. I. H. Rorison, A. D. Bradshaw, M. J. Chadwick, R. L. Jefferies, D. H. Jennings, and P. B. Tinker, Eds. Blackwell Scientific Publications, Oxford, 1969 (U.S. distributor, Davis, Philadelphia). xxii + 486 pp. + plates. \$17.50.

**Ecological Notes on Wall Vegetation.** S. Segal. Junk, The Hague, 1969. 326 pp., illus. + appendices. Paper, \$16.65.

**Edward Stevens.** Gastric Physiologist, Physician and American Statesman. With a complete translation of his inaugural dissertation "De Alimentorum Concoctione" and interpretive notes on gastric digestion along with certain other selected and diplomatic papers. Stacey B. Day, Ed. Cultural and Educational Productions, Cincinnati, Ohio, 1969. 180 pp., illus. \$11.95.

**Electrical Network Theory.** Norman Balabanian and Theodore A. Bickart. With contributions from the work of Sundaram Seshu. Wiley, New York, 1969. xxii + 839 pp., illus. \$19.95.

**Electronic and Ionic Impact Phenomena.** In four volumes. H. S. W. Massey, E. H. S. Burhop, and H. B. Gilbody. Oxford University Press, New York, ed. 2, 1969. Vol. 1, Collision of Electrons with Atoms, H. S. W. Massey and E. H. S. Burhop, xx + 684 pp., illus. \$32; vol. 2, Electron Collisions with Molecules and Photo-ionization, H. S. W. Massey, xviii + pp. 665-1316 + plates, \$32. International Series of Monographs on Physics.

**Elementary Cryptanalysis.** A Mathematical Approach. Abraham Sinkov. Random House, New York; Singer, New York, 1969. x + 190 pp. Paper, \$1.72; to schools, \$1.29. New Mathematical Library, vol. 22.

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Anderson. Exposition, New York, 1969. 332 pp. + plates. \$7.50.

**Focus on Physics.** Optics I—Lenses, Mirrors, and Optical Instruments. J. Warren Blaker. Barnes and Noble, New York, 1969. x + 118 pp., illus. Paper, \$1.25. College Outline Series, No. 129.

**Focus on Understanding and Support.** A Study in College Management. John W. Leslie. Statistical analysis by Charles Newton and Annette L. Bacon. American College Public Relations Association, Washington, D.C., 1969. xiv + 130 pp., illus. \$3.95.

**Fungal Parasitism.** Brian J. Deverall. St. Martin's, New York, 1969. iv + 60 pp. + plates. Paper, \$1.50. Institute of Biology's Studies in Biology, No. 17.

**De Fysiologische, Biochemische en Enzymatische Klassifikatie van de Pseudomonadales.** Karel Kersters. Koninklijke Vlaamse Academie voor Wetenschappen, Brussels, 1968. xii + 124 pp., illus. Paper. Verhandelungen van de Koninklijke Vlaamse Academie voor Wetenschappen, Letteren en Schone Kunsten van België, Klasse der Wetenschappen, Jaargang 30, No. 105.

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**Genetic Counseling.** A Guide for the Practicing Physician. Walter Fuhrmann and Friedrich Vogel. Translated from the German edition (Berlin, 1968) by Sabine Kurth. Springer-Verlag, New York, 1969. viii + 106 pp., illus. Paper, \$3. Heidelberg Science Library, vol. 10.

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**How To Know the Aquatic Plants.** G. W. Prescott. Brown, Dubuque, Iowa, 1969. x + 182 pp., illus. Cloth, \$3.25; spiral bound, \$2.50. Pictured-Key Nature Series.

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**Introduction to Computers and Programming.** Jessica Hellwig. Columbia University Press, New York, 1969. xiv + 218 pp., illus. \$5.50. Reprint of the 1965 edition.

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**Introductory Probability Theory.** Y. A. Rozanov. Translated and edited from the Russian edition (Moscow, 1968) by Richard A. Silverman. Prentice-Hall, Englewood Cliffs, N.J., xii + 148 pp., illus. \$6.95. Selected Russian Publications in the Mathematical Sciences.

**Knowing and Being.** Essays by Michael Polanyi. Marjorie Grene, Ed. University of Chicago Press, Chicago, 1969. xviii + 246 pp. \$4.95.

**Laboratory Instructions in Biology of Microorganisms.** Marjorie S. Sharp and Sanders T. Lyles. Mosby, St. Louis, 1969. x + 282 pp., illus. Paper, \$4.95.

**Lasers and Holography.** An Introduction to Coherent Optics. Winston E. Kock. Doubleday, Garden City, N.Y., 1969. xvi + 104 pp. + plates. Cloth, \$4.50; paper (Anchor Books), \$1.25.

**Learning.** Processes. Melvin H. Marx, Ed. Macmillan, New York; Collier-Macmillan, London, 1969. x + 518 pp., illus. \$9.95.

**Lecture Notes on Histology.** William A. Beresford. Blackwell Scientific Publications, Oxford, 1969 (U.S. distributor, Davis, Philadelphia). viii + 296 pp., illus. \$4.50. Lecture Notes Series.

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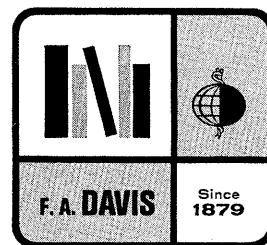
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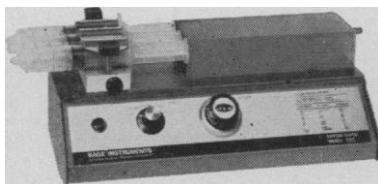
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