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INTRODUCTION TO THE STUDY OF ANIMAL POPULATIONS, H. G. Andrewartha, 281 pp., \$1.95, Phoenix Science Series, The University of Chicago Press, Chicago 37, 1963.

The study of animal populations has long lagged behind the study of other aspects of ecology because of the difficulties involved in such work. The present book is an excellent, high level, introduction to the subject and includes a number of relatively simple experiments which can be adapted for high school science projects. Advanced students should find this a stimulating approach to ecology and the teacher may find it valuable for reference.

Frank N. Young
Department of Zoology
Indiana University

NAMING THE LIVING WORLD, Theodore Savory, 128 pp., \$3.95, John Wiley and Sons, Inc., New York 16, 1963.

This little book, as the author states, is "chiefly concerned with the inventing, giving and recording names" of all forms of life, and accordingly is divided into three parts: Principles of Nomenclature, Codes of Nomenclature, and Practices of Nomenclature. The author has made what can be a most deadly subject rather interesting with a good choice of examples and clear and simple explanations of the rules. His attitude toward nomenclature appears reasonable, although he is concerned about the beating that Latin takes at the hands of taxonomists. His discussion of rules and procedures are quite adequate for the purpose for which the book is intended, but he has made a few slips when it comes to botanical matters. Capital letters may be used for certain specific names of plants, and author's names for plants, under certain circumstances, are cited differently from those for animals. The Gray Herbarium Index might well have been listed in the chapter on "The Names There Are," and Standardized Plant Names could have been sacrificed.

For those who complain about taxonomists: changing the names of organisms, attention must be called to the author's statement that the change of names is not a catastrophe, since "a biologist may be reminded that both his mother and his wife have survived the same metamorphosis." And for those who complain that names of organisms are too long, he points out that they might be even longer. Most names fortunately don't run the length of three hecites—*Gammaracanthuskotylodermogrammarus*, *Parapallaseakotylodermogrammarus*, and *Polichinellobizarrocomicburlescomagicaraneus*—which must hold the record. Just as ridiculous but not so long are *Ochisme*, *Marichisme*, *Peggichisme*,



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etc., which have to be pronounced to be appreciated (?).

At the price the publisher is asking for this book, one can hardly recommend that taxpayer's money be used to be put it into the school's library.

Charles B. Heiser, Jr.
*Department of Botany
Indiana University*

HOW SMART ARE ANIMALS? Helen Kay, 128 pp., \$3.75, Basic Books, Inc., New York 3, 1962.

This book presents an interesting account of studies which have been employed to learn about animal behavior. Many animals including the owl, horse, dog, bird, earthworm, chimpanzee, dolphin, and others, have been studied. Specific works of famous scientists such as Pavlov, Lorenz, and Skinner are included. The interesting manner in which the chapters are written plus the many excellent illustrations will hold the attention of the reader.

The last paragraph of each chapter is a summary statement which is quite good. The author not only provides a short review but also presents ways in which the research could be applied to man.

The book provides a good coverage of the study of animal behavior. Perhaps more attention could have been given to insects. The level at which the book is written should make it particularly appealing to junior high school students.

Burton E. Voss
*College of Education
Pennsylvania State University*

WATER AND ITS IMPURITIES, Thomas R. Camp, 355 pp., \$18.00, Reinhold Publishing Corporation, New York 22, 1963.

This book presents an up-to-date account of the problems of water impurities and their solutions. It was written to provide a qualified reference for those concerned with the design of works to solve the various types of water pollution. The book offers fundamental information in sanitation engineering that should fill the needs of the design engineer, plant operator, and public administrator. In the discussion, the physical, chemical, and biochemical properties of water and its impurities are considered in terms of the total environment.

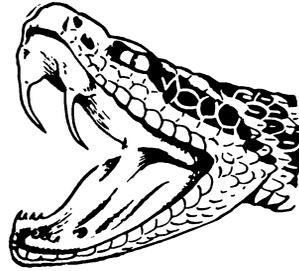
Since the book is primarily an engineering reference, it presumes that its readers will have a more sophisticated knowledge of mathematics than is true of most biologists. However, it is a valuable reference for anyone concerned with problems of water quality.

Clarence J. Goodnight
*Department Biological Sciences
Purdue University*

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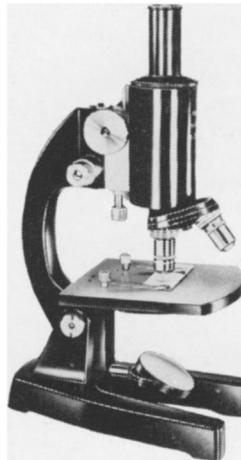


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