

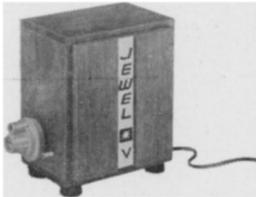
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methods of collecting and preservation for later identification, a problem I encounter and undoubtedly others do too.

This treatment of the Lemnaceae, although of some value, does not meet my concept of a monograph because of the rather limited number of specimens examined and collected. I therefore seriously question the reliability of the ranges of distribution indicated.

T. Van Bruggen
Botany Department
University of South Dakota

THE CHEMISTRY OF PHOTOSYNTHESIS, Meredith E. Ackley and Philip B. Whitford, 74 pp., Appleton-Century-Crofts, New York, 1965.

A programmed text, this is designed to assure an instructor his class is homogeneous in its background knowledge on photosynthesis. The student is programmed through the areas of work and energy, organic compounds, and the photo phase and synthetic phase of the photosynthesis, in preparation for further class discussion and laboratory work.

The program consists of a divided page which has the programmed questions on the right hand side and the answers on the left hand side of the page. "Skip sections" are used so students with some background in chemistry can spend less time with the program. The book is designed to fit in one week's class work and the authors state the text may be accomplished in as little as 1½ hours with an average completion time of 3 hours. The small size of the pages and blanks to be filled in might encourage the student to read the entries rather than fill in each blank program space.

Each instructor will have to decide if this text supplies the necessary background content for his course. The *Chemistry of Photosynthesis* should interest those instructors who are using a variety of teaching tools to teach the facts of biology, in order to have more time to teach biological science as a creative enterprise.

Paul Geisert
Oak Park and River Forest High School
Oak Park, Illinois

Zoology

INTEGRATED PRINCIPLES OF ZOOLOGY, 3rd Ed., Cleveland Hickman, 965 pp., \$8.50, C. V. Mosby Company, St. Louis, 1966.

A massive, encyclopedic review of zoology for the collegiate undergraduate course in general animal biology. The fact that the book is in its third edition attests to its use throughout the country. There isn't much left out, at least it must appear so to the student who is confronted with this hefty tome. But for the secondary