

thetic purposes). What effect does allowing people to enter the back country by new roads have on our environment? The claim is commonly made that "people pressure" tends to destroy the "natural" balance; although this could have been speculated upon by Robinson, my recent field research (for the Arizona Highway Department) along these lines shows this is extremely difficult to document and quantify.

I would like to have seen more discussion of certain practices, such as the questionable mowing of sparse vegetation beside roads in arid regions, the effect of road-building on river systems, and the interaction between increased drainage, from surfaced roads, and roadside plants (natives and exotics).

Nevertheless, I have never enjoyed and appreciated a book more. The book is too important to allow cost to prevent wider dissemination. I hope that Robinson and McGraw-Hill will consider publishing this important work in a less expensive form.

R. Roy Johnson  
Prescott (Ariz.) College

#### Genetics

GENETICS LECTURES, VOL. 2, ed. by Ralph Bogart. 1971. Oregon State University Press, Corvallis. 126 p. \$4.00 (softback).

This volume contains the nine lectures presented at the 1968 genetics seminar at Oregon State University. Many aspects of genetics research are represented; these include tetrad analysis, regulation of crossing-over in *Neurospora*, and genetic analysis of constancy. The material would be beyond the grasp of any but the most gifted undergraduate student but would be useful as readings for graduate students in genetics.

Patricia Kemner  
Penn Valley Community College  
Kansas City, Mo.

#### Histology

OUTLINE OF HISTOLOGY, by Gerrit Bevelander. 7th ed., 1971. C. V. Mosby Co., Saint Louis. 303 p. \$8.25 (softback).

This short version of histology has considerable merit and should prove to be popular. Two words aptly characterize this edition: "compendium" and "synopsis." The book does cover the whole field of tissue structure in a brief and well-conceived organization, and it succeeds in being a condensed overview of an extensive subject. Those readers who know the standard, classical textbooks of histology will appreciate this abridgment of the subject while at the same time appreciating the fact that the larger, encyclopedic his-

tologies must still be the ultimate references for the specialist.

There are recent editions of condensed books of histology with which Bevelander's book will be compared. One popular "competitor" is actually an outline, in the strict sense. The book under review is not in outline format; rather, it is like a digest. Moreover, this book is a small atlas of microscopic structure: there are illustrations on almost every page. Judiciously combining and juxtaposing optical photomicrographs, electron micrographs, and drawings, the author elucidates and delineates tissue structure in a comprehensible and palatable manner.

A special feature of this book is that there are two discrete sections, each complete with its own table of contents, style, and separate index. Part 1 (209 pages) is "General Histology"; Part 2 (88 pages) is "Dental Histology and Embryology." The inclusion of the latter section is a reflection of the author's affiliation with the Dental Branch, University of Texas, Houston.

An "outline" such as this would be highly useful in college histology courses, either as a short textbook or as a practical supplementary reference. This inexpensive volume could also serve as a reference in general biology or zoology when the topic of histology is

\*\*\*\*\*

**NEW**

**Color Photomicrographs**

**2" x 2"**

**Transparencies**

**for**

**Teaching — Studying**

\*\*\*\*\*

**BOTANY  
ZOOLOGY  
HISTOLOGY (Human)  
EMBRYOLOGY  
BLOOD MORPHOLOGY  
(Human)  
BACTERIOLOGY  
PARASITOLOGY  
CYTOLOGY**

Send for brochures  
**THOMSON ASSOCIATES**  
2 Bellingham Place  
Boston, Mass. 02114

\*\*\*\*\*

presented. High-school biology teachers would be likely to find this a handy source of information on microscopic anatomy of cells and tissues, and the secondary-school library should have it in its collection of biology reference works.

Raymond E. Henzlik  
Ball State University  
Muncie, Ind.

#### History

THE HIDDEN CONTRIBUTORS: BLACK SCIENTISTS AND INVENTORS IN AMERICA, by Aaron E. Klein. 1971. Doubleday & Co., New York. 216 p. \$4.95 (hardback).

This book, like many others on the market at present, points up the incompleteness of works on American history that are being used throughout the world. The contributions of a considerable segment of our population—the blacks—are either treated very incompletely or omitted altogether in such books. The author chronicles the contributions of some 12 black scientists and inventors in America from early colonial times to the present. Among them are some who are generally known, but others are most conspicuous by their absence from the history books: B. Bannerker, N. Rillieur, E. McCoy, G. T. Woods, E. E. Just, and P. L. Julian.

The book describes the almost insurmountable obstacles that black scientists have had to overcome. It will come as a surprise to many readers to learn that the expression "the real McCoy" refers to the inventive ingenuity of a black man, Elijah McCoy.

This book could be used in secondary schools for various purposes: among others, to show the relative incompleteness and omissions in standard American history books; to show the difficulties faced by scientists and inventors—particularly the blacks; and to motivate young people—black children in particular.

Paul L. Brown  
Norfolk (Va.)  
State College

#### Human Biology

THE BIOLOGICAL AND SOCIAL MEANING OF RACE, by Richard H. Osborne. 1971. W. H. Freeman & Co., San Francisco. 191 p. \$2.95 softback, \$6.00 hardback.

Osborne presents 11 essays, nine of which were previously published elsewhere. There is a glossary, and the words defined therein are italicized the first time they are used in each paper.

Osborne has selected material that covers the questions of race from various perspectives. The presentation has good balance. This book will be of value to high-school and college students as