

1984

## Science Notes - Book News : *Fundamentals in Laboratory Microbiology*

Follow this and additional works at: <https://scholarworks.uni.edu/istj>



Part of the Science and Mathematics Education Commons

*Let us know how access to this document benefits you*

Copyright © Copyright 1984 by the Iowa Academy of Science

---

### Recommended Citation

(1984) "Science Notes - Book News : *Fundamentals in Laboratory Microbiology*," *Iowa Science Teachers Journal*: Vol. 21: No. 3, Article 5.

Available at: <https://scholarworks.uni.edu/istj/vol21/iss3/5>

This Article is brought to you for free and open access by the IAS Journals & Newsletters at UNI ScholarWorks. It has been accepted for inclusion in Iowa Science Teachers Journal by an authorized editor of UNI ScholarWorks. For more information, please contact [scholarworks@uni.edu](mailto:scholarworks@uni.edu).

**Offensive Materials Statement:** Materials located in UNI ScholarWorks come from a broad range of sources and time periods. Some of these materials may contain offensive stereotypes, ideas, visuals, or language.

## SCIENCE NOTES

"for it is an almost total lack of those disciplines in scientific training that has caused the unfortunate *misunderstanding* of science itself and of religion that has helped to breed this controversy."

In Chapter 10, Brush views the controversy as an historian of science and examines the role of skepticism in both science and religion. He says there is merit in examining skepticism for what it has contributed to science and to religion, and concludes that extreme dogmatism in either area is untenable.

As the editor concludes his introductory chapter, he points out that belief has to stay in equilibrium with the constant flow of new knowledge about the universe, and use it, not avoid it. "The drawing power of debates between 'scientific creationists' and evolutionists testifies to the reality of the concern of both scientists and the public about the relationship between science and belief. Clearly, we need both. They have served as two awesome driving forces, interweaving to lead us to where and what we are today. But if they are to coexist, each must respect and learn from the other. It is in that spirit that we offer this book."

*Reviewed by Robert W. Hanson Ph.D., Prof. of Chemistry and Science Education, Dept. of Chemistry, Univ. of Northern Iowa, Cedar Falls, IA 50614.*

### Book News

*Fundamentals in Laboratory Microbiology*, published by the Iowa State University Press, is a self-paced laboratory approach to introductory microbiology that assumes no prior knowledge of biology on the part of the student. Classical methods are stressed, with an emphasis on the natural relationships between organisms and their environment.

*Fundamentals in Laboratory Microbiology* provides a base of understanding for the principles of microbiology in a format that enables students and teachers to use the manual separately or in conjunction with a microbiology text.

Six packets are included in the manual: Introduction, Making Observations, and Using the Microscope; Media Makeup and Sterilization Techniques; Bacterial Growth; Antiseptics, Disinfectants, and Antibiotics; A Study of Bacteria in Three Natural Habitats: Water, Soil, and Air; and Viruses. Diagrams and photos accompany explanations of laboratory procedures.

*Fundamentals in Laboratory Microbiology* is suitable for biology, science, or microbiology courses at the high school, junior college, and vocational school levels. This manual serves the needs of instructors for an appropriate low-cost laboratory instruction guide that uses easily obtainable materials.

A teacher's guide that includes objectives, materials needed, preparation of materials, teacher notes, and sample answers to questions is also available.

The authors of *Fundamentals in Laboratory Microbiology* are Sandra S. Gottfried, science instructor, Ona M. Wilcox School of Nursing, Middletown, Connecticut, and James L. Kelly, associate professor of teaching — science, Price Laboratory School, University of Northern Iowa, Cedar Falls, Iowa.

This manual is available from Iowa State University Press, 2121 South State Ave., Ames, IA 50010.