A LABORATORY GUIDE IN ELEMENTARY BACTERIOLOGY. BY WILLIAM DODGE FROST, M.S. Second Edition. 1902. 348 pp. Published by the author.

This book contains substantially the material furnished by the author to students in bacteriology during two semesters at the University of Wisconsin.

Part I. General Bacteriology (132 pages) includes the elementary technique and direction for the usual systematic study of the biological characteristics of bacteria. Seven types are introduced representing the Saprophilic, Chromogenic, Zymogenic, Saprogenic and Phosphorescent classes of micro-organisms.

Part II. Medical Bacteriology (214 pages) includes the more specialized phases of the subject, particularly as applied to students preparing for medicine.

Outlines are given for the study of one or more forms typical of each of 22 groups, including all of the commonly met with pathogenic organisms.

In both parts of the guide, the forms are taken up in families or groups. An effort is made to have the student recognize the similarity between closely related forms and also to impress him with certain minute but important differences. The sequence of the types is good.

The general plan of the outline for each form is as follows: The organism is introduced with an explanatory note concerning habitat and a list of references to all of the leading English textbooks and occasionally to original sources. Following is an elaborate blank form or chart, covering four pages, for the permanent record, on the part of the student, of the observed morphological, cultural and physiological characteristics of the organism. This outlined chart indicates to the student what is to be done and provides for systematic notes and sketches. Throughout other parts of the book the right-hand pages are left for notes.

The general plan of the guide is good. The material for the fundamental exercises has been carefully selected. The directions for the execution of experiments are explicit and up to date. They bear evidence of having been subjected to class test before publication.

The cuts of apparatus are, for the most part, poorly executed,

and there is also occasional evidence of careless correction of proof.

The appearance of a second edition within a year is the best indication that this elementary laboratory guide fills a need.

ROBERT E. LYONS.

Prize of One Thousand Dollars.

The Association for Maintaining the American Women's Table at the Zoological Station at Naples, and for Promoting Scientific Research by Women, hereby announces the offer of a second prize of one thousand dollars, to be awarded in April, 1905, for the best thesis written by a woman, on a scientific subject, embodying new observations and new conclusions based on an independent laboratory research in biological, chemical or physical science.

The conditions of the competition may be learned by application to MRS. ELLEN H. RICHARDS, Massachusetts Institute of Technology, Boston, Mass.