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Frobisher - Microbiology

The aim of this book is to give the college student a broad familiarity with microorganisms—and the many vital roles they play in the world today. The student is introduced to the highly diverse aspects of this field in an orderly, progressive manner.

The book is divided into five sections dealing with the relations of microorganisms to each other and to the living world; methods and phenomena of microbiology; immunology; the bacteria as a class; and the microbiology of special environments. Especially notable is the material on the physiology, genetics and metabolism of microorganisms. Bibliographies contain pertinent references to aid further study, and there are hundreds of helpful illustrations.

By MARTIN FROBISHER, JR., Sc.D., Special Consultant, Bacteriology Branch, Communicable Disease Center, U. S. Public Health Service, Chamblee, Georgia; Associate Professor of Bacteriology, Emory University; Visiting Lecturer, Johns Hopkins University School of Hygiene and Public Health. 653 pages, 6½" x 9¼", with 253 illustrations. $6.00. Fifth Edition.

Villee - Biology

In presenting elementary general biology, the author has selected a careful course between superficiality and over-simplification on the one hand, and over-complication on the other. The student is given all the information he should acquire in a college course in biology—but he isn't overloaded with facts beyond his understanding.

The fashion in which the subject is developed is masterly. Methods of scientific investigation are first discussed. Part I is on cell structures and functions. Biologic interrelationships, plant evolution, etc. are covered in Part II, while Part III is devoted to lower and higher invertebrates and the phylum Chordata. Part IV discusses the various systems of the body, and Part V, the reproductive process. The last three parts consider heredity and genetics, evolution, and ecology.


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1 April 1955
INTERNATIONAL ARID LANDS MEETINGS
of the AAAS and its
SOUTHWESTERN AND ROCKY MOUNTAIN DIVISION
University of New Mexico, Albuquerque, New Mexico, April 26-29
Southwestern Field Trip, Albuquerque-El Paso and return, April 30-May 1

Featuring a Symposium on What is the Future of Arid Lands? Public evening lectures, April 26, 27 and 28 by Homer L. Shantz, Charles E. Kellogg, and B. T. Dickson (Australia), and Technical Sessions:
Morning, April 27—Variability and Predictability of Water Supply in Arid Regions—Speakers: Reed W. Bailey, C. W. Thornthwaite, Jean Tixeront (Tunisia), Luna Leopold, F. Dixoey (England), C. C. Wallén (Sweden), John H. Dorooh, T. L. Smiley.
Afternoon, April 27—Better Use of Present Resources—Speakers: Kanwar Sain (India), R. O. Whyte (Italy), L. N. McClellan, Hilgard O’R. Sternberg (Brazil), L. A. Richards, Cyril Luker, Raymond Price, Pedro Armillas (Mexico).
Afternoon, April 28—Better Adaptation of Plants and Animals to Arid Conditions—Speakers: Olaf S. Aamodt, Colonel Omar Draz (Egypt), R. Merton Love, Knut Schmidt-Nielsen, Enrique Beltrán (Mexico), B. P. Uvarov (England), Michael Enevarti (Israel), L. M. Pultz.

Discussion Group Sessions, April 29 (See SCIENCE of February 11, 1955, or THE SCIENTIFIC MONTHLY of March, 1955, or write to the American Association for the Advancement of Science, 1515 Massachusetts Avenue, N.W., Washington 5, D. C., U.S.A., for details. Cable Address: Advancisci, Washington, D. C.)

Housing Reservation

Please send requests directly to the Bureau to save time. Confirmation in two weeks in order received.

Single rooms may become scarce; if possible share a twin-bedded room—and also save. Be sure to indicate if you need a room the night of May 1 on return from the Field Trip. Deadline for receipt of reservations, April 15.

Hotels

- Hilton
  - Single with bath: $7.50
  - Double with bath: $9.00
  - Twin-bedded with bath: $10.00
  - 4.50 (a few 3.50 & 4.00 without bath)
  - 5.00-6.00 (a few 2.50 & 4.50 without bath)
  - $7.00-$10.00

All of the above prices subject to 2% state tax.

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First Choice: Second Choice: Third Choice:

- Single room with bath: Desired rate: Maximum rate:
- Double-bedded room with bath: Desired rate: Maximum rate:
- Twin-bedded room with bath: Desired rate: Maximum rate:

The name and address of each person, including yourself, must be listed (attach list if necessary.)

Date and time of arrival: Date and time of departure:

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Enclose deposit of $10.00 (refundable if cancelled before April 15.)

Make checks payable to Bert Huff, Secretary, Albuquerque Chamber of Commerce.

Registration Form

Name (Dr., Miss, etc.)
(Please print or type)
(First) (Middle) (Last)

Academic, Professional or Business Connection and Title:
Office or Home Address:

Field of Interest:

Probable Discussion Group Preference (by number)

(You will be free to change or to attend more than one.)

Field Trip Reservation (limited to first 222 applicants—deadline April 8)
Yes: No: ( COLORS for trip, lodging, and meals must accompany reservation. Refunds up to April 15.)

Send to: Dr. E. F. Castleter, University of New Mexico, Albuquerque, New Mexico, U. S. A.
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In other major sections, sufficient new material has been included to indicate the latest developments in the various subjects and numerous references to new books and to the periodic scientific literature have been given to enable the specialized reader to obtain more details of the latest information on any subject than it has been possible to provide in the space available. This has meant, in some instances, making the larger sections a little unwieldy, though up to date. Many of the minor sections have been enlarged to include recent developments and in all cases up-to-date references are given.

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The papers in this symposium, presented in somewhat abbreviated form at the AAAS Meeting in Philadelphia, will help those wishing to enter this field, especially in the design and construction of equipment. The material—and the bibliography included with the first paper—will also prove invaluable to those actively working in the field. Although the number of contributors is limited, the papers cover developments around the world.

Dr. Linnell, who covers direct current techniques, constructed a photoelectric photometer still in use at the Boyden station in South Africa, and while at Harvard used this in the study of the faint and unusual eclipsing variable, UX Ursae Majoris. His present work involves the development of techniques using subminiature tubes.

Dr. Hall—alternating current techniques—is co-discoverer of the phenomenon of the polarization of the light of certain stars, and was the first astronomer to demonstrate the value of refrigeration of photocells.

Dr. Blitzstein constructed the first pulse-counting photometer for astronomical use and applied it to the observation of eclipsing variables.

Although Dr. Bengt Stromgren of the Yerkes and McDonald Observatories reviewed foreign developments at the Philadelphia meeting, this volume includes papers written by M.M. Lellemend and Lenouvel on work at the Observatoire de Haute Provence and by R.O. Redman, Director, and G.G. Yates of the Observatory at Cambridge University.

Dr. Walraven of Leiden describes the work with servomechanisms carried out by him at the Union Observatory in Johannesburg.

Dr. Whitford, who supplies the critical summary and evaluation of future developments, has been considered an outstanding authority in this field for many years. His introduction of the constant deflection method using electrometer tube techniques marked a major advance.

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