TEXTBOOKS

DRYING MILK AND MILK PRODUCTS—Carl W. Hall and T. I. Hedrick—Avi Pub. Co., 338 p., illus., $16.50. Textbook and reference for the operating engineer, the book deals with the principles, the methods of drying and spray drying, instrumentation, processing, storage bi-products and quality control.

BACK TO NURSING—Ruth Perin Stryker—Saunders, 312 p., illus., $5.75. A refresher course guiding the independent study of the nonpractising nurse who wishes to return to modern hospital nursing.

FOUNDATIONS OF PHYSICAL SCIENCE—William Ramsey, Clifford R. Phillips Jr. and Frank M. Watenpaugh—Holt, 400 p., illus., $6.08. A textbook attempting to give the high school student an understanding of the concepts underlying modern physics.

HUMAN PHYSIOLOGY—Thomas F. Morrison and others—Holt, 497 p., illus., $6.32. A high school textbook, presenting the latest advances in the various areas of the subject for students who want to go beyond the standard secondary school biology courses.

Films of the Week

Listing for readers' information of new 16mm and 8mm films on science, engineering, medicine and agriculture for professional, student and general audiences. For further information on purchase, rental or free loan, write to distributor listed.

Note: the following films were produced as a part of the SCIENCE REPORTER series by WGBH-TV, Boston, for National Educational Television. Purchase price for any films is $125 and rental is $5.40, from the Audio-Visual Center, Indiana University, Bloomington, Ind. 47401.

COMPUTER SKETCHPAD. 16mm, b&w, sound, 30 min. Investigates new programming system for computers which permits man to communicate directly with the computer by drawing sketches on an oscilloscope. Audience: general.

DESIGN FOR SURVIVAL. 16mm, b&w, sound, 30 min. Deals with the past inadequacy of safety considerations in the design of U.S. automobiles, and necessary solutions proposed by Cornell Aeronautical Laboratory and Frank Crandell of Liberty Mutual Insurance Company. Audience: general.

THE HEART-LUNG CHAIN. Visits medical specialists in the Veterans Administration Hospital in West Roxbury, Mass., and demonstrates the use of their new invention, the portable heart-lung machine. Audience: general.

IMPORTANCE OF THE UNDERGROUND. 16mm, b&w, sound, 30 min. Civil engineers at the Soil Mechanics Division of MIT discuss building problems caused by the behavior of soils under buildings, and demonstrate how laboratory tests of soils are made. Audience: general.

IN A FROG'S EYE. 16mm, b&w, sound, 30 min. Visit at MIT's Research Laboratory for Electronics shows special microprobe which monitors the electrical activities of single receptor cells in the frog's optic nerve, and explains how information received by the eye is translated by the central nervous system in a language meaningful to the organism. Audience: general.

IN A STATE OF FLUX. 16mm, b&w, sound, 30 min. Shows Magnet Laboratory at MIT, and explains how strong magnets are built, discussing the implication of such research in electronics, space exploration and other fields. Audience: general.

LOOKING BACK AT THE BOMB. 16mm, b&w, sound, 30 min. Visit with Dr. Vannevar Bush, who explains his ideas on the effect of the atomic bomb on the world, and dissects C.P. Snow's views on "the two cultures." Audience: general.

MAN AS THE BEHAVES. 16mm. b&w, sound, 30 min. Laboratory research on human behavior being done at Harvard, including demonstration of how to test cooperation and competition by examining related and unrelated subjects operating interacting machines in different rooms. Audience: general.

PROFILES OF A HIGHWAY. 16mm, b&w, sound, 30 min. Shows how new data-processing techniques are used in building highways, including how terrain data can be gathered from aerial photographs and computers systems can automatically produced blueprint drawings. Audience: general.

REPORT ON THE FAIR. PART I. 16mm, b&w, sound, 30 min. Look into the future at the 1964-65 World's Fair exhibit by General Motors. Audience: general.

SAND AND IMAGINATION. 16mm, b&w, sound, 30 min. Visit to the Corning Glass Works where scientists discuss the analysis of glass structure and properties, and demonstrate new developments such as glass ceramics, photochromic glass, and thin-walled and strengthened glass. Audience: general.

THE STORY OF KIDNEY TRANSPLANTS. 16mm, b&w, sound, 30 min. Doctors at Boston's Peter Bent Brigham hospital discuss new developments in kidney research, what has been learned from it, and application of such research. Shows actual kidney transplant operation being performed Audience: general.

SURVEY OF SPACE. 16mm, b&w, sound, 30 min. Takes the viewer to NASA exhibit at Northeastern University, showing achievements in the peaceful uses of space. Audience: general.

TIME IN A TUBE. 16mm, b&w, sound, 30 min. Scientists at Raytheon Company demonstrate new electronic storage tube, which will hold TV pictures for later use, and explain applications in sea control, railroad yards, and surgery. Audience: general.

UNDERWATER PHOTOGRAPHY. 16mm, b&w, sound, 30 min. Dr. Harold Edgerton of MIT explains his new giant camera which is capable of working at a depth of more than five miles beneath the ocean. Audience: general.

WATER FOR A THIRSTY WORLD. 16mm, b&w, sound, 30 min. Considers present methods of desalination of water, and discusses new method called "ultrafiltration" which is being developed at MIT. Audience: general.