

Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N. W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

AFRICA: A Study in Tropical Development—L. Dudley Stamp—*Wiley*, 568 p., illus., \$8.50. Reviews the available resources of the entire continent and surveys the obstacles which stand in the way of their full development.

BIBLIOGRAPHY ON INDUSTRIAL RADIOLOGY, 1950-1952—Herbert R. Isenburger—*St. John X-Ray Laboratory*, 18 p., paper, \$2.00. Fourth supplement to "Industrial Radiology."

BIBLIOGRAPHY ON X-RAY STRESS ANALYSIS: With Subject Index—Herbert R. Isenburger—*St. John X-Ray Laboratory*, 2nd ed., 20 p., illus., paper, \$4.00. Contains some information on X-ray method as well as 311 references.

CHEMISTRY AND METHODS OF ENZYMES—James B. Sumner and F. Fred Somers—*Academic Press*, 3rd ed., 462 p., illus., \$7.50. An introduction to enzyme chemistry for advanced students and research workers.

THE COMMON SENSE OF SCIENCE—J. Bronowski—*Harvard*, 154 p., \$2.00. The essential nature of science, how it affects us, and how its methods can be used in all we do.

THE COMPOSITION AND ASSAYING OF MINERALS—John Stewart-Remington and Wilfrid Francis—*Philosophical Library*, 127 p., illus., \$5.50. A laboratory textbook telling how to identify and assay ores and minerals, relating especially to the chemical composition of minerals.

DOWNY WOODPECKER—Paul McCutcheon Sears—*Holiday House*, 44 p., illus., \$2.00. The story of the life of a woodpecker throughout all four seasons.

THE EASY DRAWING BOOK—Peter White—*Sterling*, 126 p., illus., \$2.50. Shows the pre-

school child and primary grade student shapes and features of things, and how to draw them.

FINAL APPROACH AND LANDING: A Condensed Record of Discussions of Factors Affecting Final Approach and Landing, Held During Fifth IATA Technical Conference at Copenhagen in May, 1952—*International Air Transport Association*, 142 p., paper, \$1.75. Discussions of electronic and visual aids for pilots in achieving safe landings.

FLOWER BOX SURPRISE—Gertrude Blane—*Julian Messner*, 63 p., illus., \$1.60. This story of growing plants in the city brings out the essential conditions for plant life. Ages 8-10.

HIGHWAY-MATERIALS SURVEYS—Highway Research Board—*National Academy of Sciences*, 114 p., illus., paper, \$1.50. Investigates the problem of obtaining suitable aggregates and granular materials for highway-construction purposes.

HOMESTUDY COURSE FOR CIVIL SERVICE JOBS—David R. Turner—*Arco*, 278 p., illus., \$4.95. Presents the essential features of the U. S. Civil Service system with samples of examination questions.

HOUSEHOLD STORAGE UNITS—Helen E. McCullough—*Small Homes Council, University of Illinois*, Cir. C 5.1, 12 p., illus., paper, 10 cents. Suggests and shows the use of 20 space-saving, sectional storage units.

THE HUNGRIEST ROBIN—Peter Thayer—*Julian Messner*, 63 p., illus., \$1.60. Brings out the relationship of an animal to its environment. Ages 7-10.

THE LOST AND THE FOUND: The Story of Eva and Laszlo, Two Children of War-torn Europe—Robert Collis—*Woman's Press* (William Morrow), 181 p., illus., \$3.50. Describes the rehabilitation of two children from the disease and horror of a concentration camp to health and security in Ireland.

MAN AND THE CHEMICAL ELEMENTS: From Stone-Age Hearth to the Cyclotron—J. Newton Friend—*Scribner*, 354 p., illus., \$6.00. The history of the discovery and utilization of the chemical elements.

MAN'S FOODS: Nutrition and Environments in Food Gathering Times and Food Producing Times—Lloyd B. Jensen—*Garrard Press*, 278 p., \$4.50. An introductory survey of man's foods from the Paleolithic Epochs to the close of Classical Times. Describes how nutrition influenced man's development.

THE MARVELOUS MAGNET—Harry Sootin—*Julian Messner*, 63 p., illus., \$1.60. Brings out the fundamentals of magnetism, and explains how a simple telegraph and a door bell work. Grades 3-5.

NATURAL CHILD SPACING: The Body Temperature Method of Child Planning—M. Edward Davis—*Hanover House*, 124 p., illus., \$2.00. Intended to help married couples secure conception or determine the intervals between additions to the family.

THE NATURE OF CREATIVE THINKING: A Monograph—*Industrial Research Institute*, 73 p., paper, \$2.00. Proceedings of a symposium covering not only the nature of creative thinking, but how creative activity can be stimulated in the arts and sciences.

OLIVER SOUNDS OFF—Jack Bechdolt—*Julian Messner*, 63 p., illus., \$1.60. Explains what sound waves are, why they differ in pitch and how they travel. Ages 8-12.

PHYSIOLOGIC RESPONSES ATTENDING ADMINISTRATION OF ANTIMONY, ALONE OR WITH SIMULTANEOUS INJECTIONS OF THYROXIN—Marian L. Westrick—*Mellon Institute of Industrial Research*, 5 p., paper, free upon request to publisher, 4400 Fifth Avenue, Pittsburgh 13, Pa.

PIGMENT CELL GROWTH: Proceedings of the Third Conference on the Biology of Normal and Atypical Pigment Cell Growth—Myron Gordon, Ed.—*Academic Press*, 365 p., illus., \$7.00. Papers covering the endocrinological, pathological, and physiological aspects, etc. of pigment cells.

PLANET X—Mildred S. Kiefer—*Julian Messner*, 63 p., illus., \$1.60. Gives basic information on the planets and stresses the value of accurate scientific knowledge in the conquest of space. Grades 4-6.

PSYCHOSOMATIC RESEARCH—Roy R. Grinker—*Norton*, 208 p., \$3.50. Believing that psychosomatic research has gone astray, the author offers a blueprint for future research.

THE ROAD AND THE VEHICLE—B. G. Manton—*Edward Arnold* (Longmans, Green), 216 p., illus., \$5.75. A collection of data concerned not only with the materials of construction and the principles of design, but also with the vehicles which will use the highway.

SKINNY JOINS THE CIRCUS—Lee Bloomgarden—*Julian Messner*, 63 p., illus., \$1.60. A behind-the-scenes circus story that brings out the essentials of a balanced diet. Grades 4-6.

THE TEACHING OF SECONDARY MATHEMATICS—Claude H. Brown—*Harper*, 388 p., illus., \$4.00. An account of the historical development, the objectives, subject matter and general problems of the present-day curriculum.

TELEVISION RECEIVER DESIGN: I.F. Stages—A. G. W. Uitjens—*N. V. Philips* (Elsevier Press), 178 p., illus., \$4.50. Deals with pentode amplifiers operating in a frequency range between 10 Mc/s and over 100 Mc/s.

A TEXTBOOK OF GENERAL BOTANY—G. M. Smith, E. M. Gilbert, G. S. Bryan, R. I. Evans

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and J. F. Stauffer—*Macmillan*, 5th ed., 606 p., illus., \$6.25. New material on the phylogeny of plants and their physiology has been added to this standard college text.

THOUSANDS OF SCIENCE PROJECTS: Classified Titles of Exhibits Shown at Science Fairs and/or Produced as Projects for the Annual Science Talent Search—Margaret E. Patterson and Joseph H. Kraus—*Science Service*, 46 p., illus., paper, 25 cents, 10 copies \$1.00. A stimulus and guide for young people looking for science projects.

WHAT'S INSIDE OF ANIMALS?—Herbert S. Zim—*Morrow*, 32 p., illus., \$1.75. An attractive introduction to the world of living creatures.

WHAT'S INSIDE OF ENGINES?—Herbert S. Zim—*Morrow*, 32 p., illus., \$1.75. Graphic pictures and brief, simple text combine to give children a clear idea of how all sorts of engines work.

WHEN PEOPLES SPEAK TO PEOPLES: An Action Guide to International Cultural Relations for American Organizations, Institutions, and Individuals—Harold E. Snyder—*American Council on Education*, 207 p., \$3.00. Covers cultural relations in the postwar world and suggests ideas for making action programs effective.

WONDERS OF THE WOODLAND ANIMALS: The Family Lives of the Furry Animals—Jacquelyn Berrill—*Dodd, Mead*, 77 p., illus., \$2.50. For children of all ages.

Science News Letter, April 18, 1953

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HERPETOLOGY

Teeth Best Technique For Reptile Leadership

► SOCIAL CLIMBERS depend on dentition, not diplomacy, to rise in the reptile world. And the socially biggest lizards seem to weigh the most, too.

From observations on a colony of 24 iguanid lizards dumped together in a large terrarium, Dr. Llewellyn T. Evans of the American Museum of Natural History, New York, found that the largest male dominated the group. Lesser males scuttled away when Lizard No. 1 came about, and the females succumbed readily to his dominance.

Once Lizard No. 2 challenged grizzled No. 1, and had his tail bitten off for his ambition. Thereafter, No. 2 spent most of his time buried in the sand, well out of No. 1's way.

But the lesser lizards' day came when No. 1 was removed from the terrarium, Dr. Evans reports in *Copeia* (Feb.). With the old warrior gone, the colony split up into small groups, each led by one of the males. No. 2 then began to assert himself by repeatedly challenging the smaller males.

Civil strife was put to a speedy end, however, by the re-introduction of No. 1. He quickly drew the separate parties back into a united social group, and no lizard attempted to question the old tyrant's authority further.

Science News Letter, April 18, 1953

INVENTION

Menu Ordering Device Gives Pushbutton Service

► AN INVENTION that makes ordering a meal in restaurants as easy as playing a jukebox has been devised by Mary Katherine Jones of Louisville, Ky.

Assigned patent No. 2,634,406, her invention includes a pushbutton selector box at each table or at each parking space of a drive-in restaurant. The box resembles those used with remote-controlled jukeboxes.

The menu is listed on the boxes so that each pushbutton represents one item. After deciding what he wants, the customer pushes the buttons beside the items desired. This signals the kitchen directly. The customer's order lights up corresponding items on a kitchen panel.

If the customer changes his mind, he can push a correction button and change his order. This sounds a warning in the kitchen in case the first order is being prepared. If the customer wants the waitress, he can punch her call button. When he has finished a course, he depresses a "finished" button. The bus boy or waitress pushes a "clearing" button when removing all the dishes after the customer has left. This prepares the system for the next customer at that table.

Science News Letter, April 18, 1953

Why Quit Smoking?

Here's How Thousands KEEP UP Smoking Pleasure But CUT DOWN Smoking Harm

WHEN your doctor asks you, "How much do you smoke?" he isn't just talking for his health. He's talking for your health.

For there's hardly a medical man today who doesn't agree that smoking can often cause or aggravate serious physical disorders.

Harmful Effects Now Recognized

In TIME there was a recent report from the *Journal of the A.M.A.*: "Cigarette smoking usually sends the blood pressure up, and boosts the pulse rate. It is clear that shrinking of the arteries is caused by nicotine, because denicotinized cigarettes do not produce this result. While doctors are not sure smoking causes heart disease, they have seen symptoms like angina pectoris, that probably resulted from smoking."

And in last October's *Christian Herald*, Roy Norr wrote, in *Smokers Are Getting Scared!*, "No one questions that tobacco smoke irritates the mouth, nose and throat, that it aggravates chronic bronchitis, that smoking is forbidden in cases of gastric and duodenal ulcers . . . But a curtain has largely kept from public notice the controversy raging within medical ranks over the part played by smoking in the rise of bronchogenic carcinoma (lung cancer). The curtain is now being lifted by shocking statistics."

A Startling Fact

"Wait a minute," you say. "I admit the nicotine habit may be bad for me. But I enjoy it! It's pleasant—relaxing."

But here is a startling fact not generally realized. And I quote no less an authority than the *Encyclopaedia Britannica*: "The nicotine determines the strength of the tobacco, but not its flavor and aroma."

In other words, all the talk about the pleasure of nicotine—for which we smokers have been willing to pay so dearly—is bunk! It is the other ingredients in tobacco which give us the fragrance and flavor we enjoy so much.

My cigars and cigarettes—Carl Henrys—are made from fine, fresh tobacco from which most of the nicotine has been carefully removed. Only .7 of 1% nicotine remains—but ALL the precious vegetable oils which give fine tobacco its wonderful flavor and aroma are retained. Thus you are able to KEEP UP the pleasure of smoking but greatly CUT DOWN the harm. No wonder many doctors smoke Carl Henrys, and recommend them to many of their patients.

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