

Books of the Week

TO SERVE YOU: To get books, send us a check or money order to cover retail price. Address Book Dept., SCIENCE NEWS LETTER, 1719 N St., N. W., Washington 6, D. C. Ask for free publication direct from issuing organization.

AMERICAN SOCIAL INSECTS: A Book About Bees, Ants, Wasps, and Termites—Charles D. Michener and Mary H. Michener—*Van Nostrand*, 267 p., illus., \$6.00. An introduction to the behavior of these interesting creatures. Beautifully illustrated with photographs, many in color.

ANNUAL REPORT OF THE BOARD OF REGENTS OF THE SMITHSONIAN INSTITUTION: Showing the Operations, Expenditures, and Condition of the Institution for the Year Ended June 30, 1950—*Govt. Printing Office*, 552 p., illus., \$3.00.

THE AURORAE—L. Harang—*Wiley*, The International Astrophysics Series, Vol. I, 166 p., illus., \$4.50. Technical data on this striking display.

AUTOMOBILE FACTS AND FIGURES—*Automobile Manufacturers Association*, 31st ed., 80 p., illus., paper, free upon request to publisher, New Center Building, Detroit 2, Michigan. Statistics of the industry.

BIBLIOGRAPHY AND INDEX OF GEOLOGY EXCLUSIVE OF NORTH AMERICA: Vol. 15—Marie Siegrist and Marcia Lakeman—*The Geological Society of America*, 429 p., \$3.00. An alphabetic author list is followed by a subject index. When the title is in a foreign language, an explanatory note in English follows.

A BIO-BIBLIOGRAPHY OF EDWARD JENNER, 1749-1823—W. R. LeFanu—*Lippincott*, 176 p., illus., \$16.00. Notes on the life and varied works of the man who discovered vaccination but was also a naturalist. A limited numbered edition.

THE BIOCHEMISTRY OF FERTILIZATION AND THE GAMETES—R. T. Williams, Ed.—*Cambridge*, Biochemical Society Symposia No. 7, 66 p., paper, \$2.25. A symposium discussing the little-known biochemical changes that take place during fertilization.

CALIFORNIA GRASSLANDS AND RANGE FORAGE GRASSES—Arthur W. Sampson, Agnes Chase and Donald W. Hedrick—*California Agricultural Experiment Station*, Bulletin 724,

131 p., illus., paper, free upon request to publisher, The College of Agriculture, University of California, Berkeley, Calif. Information for stockmen, range technicians and students, on the wild grasses and forage grasses of California.

CHEMISTRY FOR THE LABORATORY—Alfred B. Garrett, Joseph F. Haskins, Thor R. Rubin and Frank H. Verhoek—*Ginn*, 356 p., illus., paper, \$3.00. Experiments designed for beginning students without previous training in chemistry.

THE CIVILIZATIONS OF ANCIENT AMERICA: Selected Papers of the XXIXth International Congress of Americanists—Sol Tax, Ed.—*University of Chicago Press*, 328 p., illus., \$7.50. What anthropologists know about the striking civilizations of America which flourished while Europe was in its Dark Ages.

THE DALLES POCKET GOPHER AND ITS INFLUENCE ON FORAGE PRODUCTION OF OREGON MOUNTAIN MEADOWS—A. W. Moore and Elbert H. Reid—*Govt. Printing Office*, USDA Circular No. 884, 36 p., illus., paper, 15 cents. A robust animal which consumes both the tops and the roots of forest crops and ruins additional range with its mounds. Methods of control are recommended.

DESERT AGRICULTURE—N. L. McFarlane and G. L. Winright—*California Agricultural Extension Service*, Circular 176, 56 p., illus., paper, free upon request to publisher, The College of Agriculture, University of California, Berkeley, Calif. How a hot, dry, sandy wasteland has been induced to produce food and forage worth millions of dollars.

EAT, LIVE AND BE MERRY—Carlton Fredericks *Paxton-Slade*, 112 p., illus., paper \$1.00, cloth \$3.00. Bringing together material on nutrition ordinarily found only in journals and research papers.

ECOLOGY OF FORAMINIFERA, NORTHWEST GULF OF MEXICO: Part I. Foraminifera Distribution—Fred B. Phleger. Part II. Foraminifera Species—Fred B. Phleger and Frances L. Parker—*The Geological Society of America*, Memoir 46, 152 p., illus., \$2.75. Analyzed from 550 bottom samples, 65 submarine cores and 27 serial plankton tows from the Northwestern Gulf of Mexico.

EDDINGTON'S PRINCIPLE IN THE PHILOSOPHY OF SCIENCE—Sir Edmund Whittaker—*Cambridge*, The Fifth Arthur Stanley Eddington Memorial Lecture, 35 p., paper, 50 cents. Discussing Eddington's "Fundamental Theory" and the reasons for and against its acceptance.

ELEMENTS OF PLANT PROTECTION—Louis L. Pyenson—*Wiley*, 538 p., illus., \$4.96. A text and source-book on control of plant diseases and pests.

ESSENTIALS OF BEHAVIOR—Clark L. Hull—*Yale University Press*, 144 p., \$2.75. Containing the author's latest revisions of the basic postulates which constitute the foundation of his theory of behavior; these have been derived from experiment and observation.

GEOLOGIC STRUCTURES IN KANSAS—John Mark Jewett—*State Geological Survey of Kansas*, Bulletin 90, Part 6, 65 p., illus., paper, 10 cents.

HISTORY OF AMERICAN ORNITHOLOGY BEFORE AUDUBON—Elsa Guerdrum Allen—*The American Philosophical Society*, Transactions New Series—Vol. 41, Part 3, 1951, 204 p., illus., paper, \$2.00. The story of the observation, description and classification of birds as seen in the lives and studies of the principal workers in the field from Aristotle to Alexander Wilson, Audubon's immediate predecessor and "Father of American Ornithology."

HOME FREEZING OF FRUITS AND VEGETABLES—Bureau of Human Nutrition and Home Economics, Agricultural Research Administration, USDA—*Govt. Printing Office*, Home and Garden Bulletin No. 10, 48 p., illus., paper, 15 cents. Directions for the housewife in filling her own deep freeze. (See p. 281.)

HOMEMADE FRUIT CANDIES—W. V. Cruess and Florence Pen—*California Agricultural Extension Service*, Circular 175, 20 p., paper, illus., free upon request to publisher, The College of Agriculture, University of California, Berkeley, Calif. How to turn California fruits into treats for Christmas and other festive occasions.

LANDSLIDES: A Selected Annotated Bibliography—Jessie M. Tompkin and Severine H. Britt, Eds.—*Highway Research Board*, Bibliography No. 10, 53 p., paper, 90 cents. Includes 291 references with an index of authors and sources.

THE MAGIC CURTAIN: The Story of a Life in Two Fields, Theatre and Invention, by the Founder of the Theatre Guild—Lawrence Langner—*Dutton*, 498 p., illus., \$6.60. The autobiography of a man distinguished in two usually unrelated walks of life.

MARKETING POTENTIAL FOR OILSEED PROTEIN MATERIALS IN INDUSTRIAL USES: A Research and Marketing Act Contract Report—Arthur D. Little, Inc.—*Govt. Printing Office*, USDA Technical Bulletin No. 1043, 120 p., paper, 30 cents. Cottonseed, soybeans, peanuts and flax are four major contributors to farmers' incomes. The dry residue after oil extraction is of increasing value.

OUTLINE OF FUNDAMENTAL PHARMACOLOGY: The Mechanics of the Interaction of Chemicals and Living Things—David Fielding Marsh—*Thomas*, 219 p., \$6.00. Explaining the work and aims of the pharmacologist to scientists and students in other fields.

PATHOLOGICAL FIRESETTING (PYROMANIA)—Nolan D. C. Lewis and Helen Yarnell—*Nervous and Mental Disease Monographs*, No. 82, 437 p., \$10.00. Many fire-setters are subnormal in intelligence, but others are psychotic. This book reports a study by psychiatrists of cases occurring over more than 20 years, conducted in cooperation with The National Board of Fire Underwriters.

PROGRESS IN PHOTOGRAPHY 1940-1950—D. A. Spencer, Ed.—*Focal (Pitman)*—Volume One of International Record, 463 p., illus., \$10.00. Technical information on equipment, processes and techniques of interest to photographers.

RAISING DAIRY CALVES IN CALIFORNIA—S. W. Mead—*California Agricultural Extension Service*, Circular 107, rev. ed., 28 p., illus.,



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NATURE PHOTOGRAPHY WITH MINIATURE CAMERAS by Alfred M. Bailey (Denver Museum of Natural History). This eminent explorer and scientist displays his finest Exakta photographs and others along with explanatory material. 35 full page photographs. 64 pages50c
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paper, free upon request to publisher, The College of Agriculture, University of California, Berkeley, Calif. How to improve the herd for milk production.

A REVIEW OF THE MYSIDACEA OF THE UNITED STATES NATIONAL MUSEUM—Walter M. Tattersall—*Smithsonian*, U. S. National Museum Bulletin 201, 292 p., illus., paper, \$1.00. Includes 120 species of these crustaceans, of which 19 are new.

SMITHSONIAN METEOROLOGICAL TABLES—Robert J. List—*Smithsonian*, 6th rev. ed. 527 p., \$4.00. Revised in both scope and contents.

THE SUNNYSIDE, ROSS BASIN, AND BONITA FAULT SYSTEMS AND THEIR ASSOCIATED ORE DEPOSITS, SAN JUAN COUNTY, COLORADO—W. S. Burbank—*Colorado Scientific Society*, Proceedings, Vol. 15, No. 7, 21 p., illus., paper, \$1.00.

TWELVE COWS—AND WE'RE IN CLOVER: The Story of a Man Who Bought a Farm—George Rehm—*Morrow*, 255 p., \$3.00. A book for city-dwellers who dream of a future life on the farm.

THE UNITED NATIONS AND YOU—United States National Commission for Unesco—*Govt. Printing Office*, Dept. of State Publication 4289, 49 p., illus., paper, 30 cents. A contribution to a better understanding of the United Nations and its relationship to you.

WINTER COVERCROPS—B. A. Madson—*California Agricultural Extension Service*, Circular 174, 24 p., illus., paper, free upon request to publisher, The College of Agriculture, University of California, Berkeley, Calif. The use of plants to keep the soil productive.

Science News Letter, November 3, 1951

INVENTION

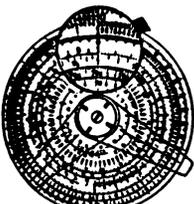
High Temperature Strength For Magnesium Alloy

➤ MANY APPLICATIONS for the metal magnesium are promised with a new alloy which unlike some others has tensile strength at elevated temperatures. The metals used with the magnesium are little known to most people, being what chemists call rare earth metals.

Inventor of this alloy is Thomas E. Leontis, Midland, Mich. He received patent 2,569,477. Rights are assigned to Dow Chemical Company, also of Midland.

Science News Letter, October 13, 1951

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PUBLIC HEALTH

Heat Peril from A-Bomb

➤ CIVIL DEFENSE planning should take into account the dangers of heat and carbon monoxide poisoning which will come if we are attacked by atom bombs, Dr. Cortez F. Enloe, Jr., of New York, warns in a report in the *JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION* (Oct. 27).

Dr. Enloe was chief of the medical science branch, U. S. Strategic Bombing Survey, which studied the effects of bombing on German health and medical care at the end of World War II. He was recently awarded the Legion of Merit for his work in this capacity.

The effects of high explosive and fire-bomb raids on individuals in German cities was not much different from the effects of the atom bombs on individuals in Hiroshima and Nagasaki, excluding the radiation effects. The radiation effects accounted for about one-fifth of the casualties in the Japanese cities.

In a high explosive raid, the type carried out on European cities and the type to which this country is apparently immune, mechanical injuries would outnumber deaths. But in an atomic bomb attack, Dr. Enloe states, "it is expected that the effects of heat and carbon monoxide would cause more deaths than injuries."

By heat deaths is meant death from the high temperatures and not from burns.

Heat stroke, he points out, caused the death of many Germans in rooms from which they could have escaped.

OPTICS

World-Wide Standards Set For Signal Light Colors

➤ IF YOU have difficulty because you confuse two of the colors of signal lights, your troubles will be lightened in the future.

World-wide standards have now been set for signal lights of all kinds—aircraft, railroad, automobile and ocean liner—Dr. Francis C. Breckenridge of the National Bureau of Standards told the Optical Society of America meeting in Chicago. Specifications for red, yellow, green, blue and white signal lights have been set.

But the changes that will be made because of this standardization, he said, will be so gradual that the user "will hardly be aware of any change in the signal colors."

The standards for all signal lights were worked out by a special committee of the International Commission on Illumination. Those for aviation signals have already been adopted by ICAO, the International Civil Aviation Organization. This country will find "little difficulty" in adapting our lights to agree with the new definitions, Dr. Breckenridge predicted.

Science News Letter, November 3, 1951

Temperatures in Hamburg, during one of the fire raids, according to police estimates, went as high as 1,472 degrees Fahrenheit in the burning city blocks. The temperature of boiling water is 212 degrees Fahrenheit, that of the normal human body 98.6 degrees.

In this same city, it is estimated that 70% of all casualties not resulting from mechanical injury or burns were caused by carbon monoxide gas, Dr. Enloe states.

"Carbon monoxide casualties may always be expected in flaming buildings where exits have been blocked by rubble, indicating the imperative need for adequate exits," he warns. "One cannot glibly endorse the general attitude that the basement of every dwelling affords relative safety. It may afford safety from blast, but if the building catches fire, and, as we have said, fire is the main cause of atomic bomb damage, the cellar becomes but a tomb."

Some persons may be expected to "drown in dust" because of dust blockage of their noses and throats in the raid.

Drowning in water is a danger in shelters and basements if water mains are broken and buildings collapse.

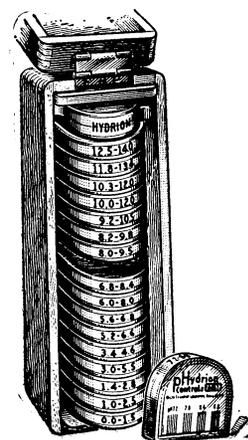
Establishment of psychiatric first-aid stations, Dr. Enloe declares, is sound in theory "but experience has shown that it is a waste of time." Contrary to expectation, air attacks on the civilian population do not increase the amount of psychiatric disorders.

Science News Letter, November 3, 1951

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