

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. books in print, send a remittance to cover retail price (postage will be paid in U. S.) to Book Department, Science Service, 1719 N Street, N. W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

AMATEUR WEATHERMAN'S ALMANAC 1952—David M. Ludlum, Ed.—*Amateur Weathermen of America*, 72 p., illus., paper, \$1.00. Gives main features of the weather last year and instructions that will help amateur weathermen make predictions.

BIBLIOGRAPHY AND INDEX OF GEOLOGY EXCLUSIVE OF NORTH AMERICA—Marie Siegrist, Mary C. Grier and Marcia Lakeman—*Geological Society of America*, Vol. 16, 462 p., \$2.50. Includes references to material published during 1951 and covers South America, Europe, Asia, Africa, Australia, Iceland and islands of the eastern Atlantic and western Pacific Ocean.

CHILD ADOPTION IN THE MODERN WORLD—Margaret Kornitzer—*Philosophical Library*, 403 p., \$4.50. A handbook of British origin on the historical, psychological and legal aspects of adoption. Included is a section on the United States.

DARWIN—COMPETITION AND COOPERATION—Ashley Montagu — *Schuman*, 148 p., \$2.50. The author points out the fallacy of "dog eat dog" thought, and the false ideas that many persons hold of Darwinism.

DESCRIPTION OF A MAGNETIC DRUM CALCULATOR—Staff of the Computation Laboratory, Howard H. Aiken, Director—*Harvard University Press*, 318 p., illus., \$8.00. Once information (up to 4,200 quantities and 4,000 instructions) is recorded on the drum surface it will remain there until it has been intentionally altered—an advantage of magnetic drum storage. Description is of the Mark III electronic computing machine.

DICTIONARY OF CONFORMAL REPRESENTATIONS—H. Kober—*Dover*, 208 p., illus., \$3.95. A collection of formulas originally prepared for the British Admiralty.

FACT BOOK ON AGING: Selected Charts and Tables on the Personal Characteristics, Income, Employment, Living Arrangements and Health of Older Persons in the Population—Committee on Aging and Geriatrics—*Govt. Printing Office*, 62 p., illus., paper, 30 cents. While the population of the United States has doubled since 1900, the number of persons 65 and over has quadrupled.

FAN MAIL FOR SCIENTISTS—*National Society for Medical Research*, paper, free upon request to publisher, 208 North Wells St., Chicago 6, Ill. This leaflet contains facsimiles of some of the threatening letters received by scientists from anti-vivisectionists.

FLASH READER: Exercise Manual for Adults—Lee A. Moulton, Barbara C. Nielsen and Victor L. Nielsen—*Young Scientists, Inc.*, paper, \$5.00. A manual and accompanying gadget intended to help the individual working alone to increase his eye span and speed his reading.

HANDBOOK ON V.D.—Carroll T. Bowen—*University of Miami Press*, 66 p., \$1.25. A brief book providing the layman with accurate and up-to-date information.

THE HAWAIIAN MONK SEAL—Alfred M. Bailey—*Denver Museum of Natural History*, 30 p., illus., paper, 56 cents. About one of the rarest aquatic mammals which the author has observed during two different trips to the Pacific.

HELPING PARENTS UNDERSTAND THE EXCEPTIONAL CHILD—Child Research Clinic—*The Woods Schools*, Proceedings of the Annual Spring Conference on Education and the Exceptional Child, 42 p., paper, free upon request to publisher, Langhorne, Pa. "Exceptional" here means abnormal or subnormal.

HOW THE INDUSTRIAL MEDICAL DEPARTMENT FUNCTIONS IN THE VISION PROGRAM—Daniel C. Braun—*Mellon Institute*, 4 p., paper, free upon request to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa.

HOW TO UNDERSTAND PROPAGANDA—Alfred McClung Lee—*Rinehart*, 281 p., \$4.00. What effect propagandists have on our society and how we can free ourselves from their control and think independently.

THE INSPECTION OF FOOD—Horace Thornton—*Williams and Wilkins*, 223 p., illus., \$3.00. A book of British origin, includes discussion on

bacterial and parasitic diseases. For students of public health, agriculture and meat technology.

JOHN COLTER: His Years in the Rockies—Burton Harris—*Scribner's*, 180 p., illus., \$3.50. A native of the Colter country has attempted to trace the trail and adventures of the discoverer of Yellowstone Park and Colter's Hell.

JUNO, SYMBOL OF ALL WOMEN—Deac Martin—*Cleveland Health Museum*, Healthguide No. 1, 16 p., illus., paper, 25 cents. This Juno is a transparent, talking woman who has no secrets and discusses her anatomy at the Science Theater of the Cleveland Health Museum.

LAS ENFERMEDADES INFECCIOSAS DE LOS ANIMALES DOMESTICOS—William Arthur Hagan and Dorsey William Bruner—*La Prensa Medica Mexicana*, 2nd ed., 800 p., illus., \$11.40. One of the U. S. scientific and medical books translated into Spanish and published in Latin America under the U. S. State Department-Science Service program.

THE MINERAL RESOURCES OF THE WORLD—William Van Royen and Oliver Bowles—*Prentice-Hall*, Atlas of the World Resources, Vol. II, 181 p., illus., \$10.75. Maps showing the distribution of 29 minerals, all of which are important in world trade. Largest uranium deposits are in Canada and the Belgian Congo.

THE OCEAN RIVER—Henry Chapin and F. G. Walton Smith—*Scribner's*, 325 p., illus., \$3.50. A poetic and scientific account of the great system of currents in the North Atlantic Ocean. The authors refer to the Ocean as the greatest river in the world, whose daily flow of water is nearly one thousand times as great as the Mississippi.

OUR AMAZING BIRDS: The Little-Known Facts About Their Private Lives—Robert S. Lemmon—*Doubleday*, 239 p., illus., \$3.95. The dipper, about the size of the robin, walks and flies under water with the same ease as it does above. In this volume, the author attempts to give something of the "personality" of this and other birds.

THE OUTLOOK FOR WOMEN AS PHYSICAL THERAPISTS—*Govt. Printing Office*, Bulletin of the Women's Bureau No. 203-1, Revised, 51 p., illus., paper, 20 cents. The number of physical therapists has doubled in the last eight years, but it is estimated that it must more than double in the coming eight years.

PLANTS OF THE BIBLE—Harold N. Moldenke and Alma L. Moldenke—*Chronica Botanica*, 328 p., illus., \$7.50. One common error that is made by those who visit the Holy Land is to assume that all the plants seen growing existed in

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Bible days. Many are now, and others that grew then have now disappeared.

PRINCIPLES AND METHODS OF CHEMICAL ANALYSIS—Harold F. Walton—*Prentice-Hall*, 435 p., illus., \$8.65. Text intended for senior undergraduates and graduate students covering the field of non-instrumental analysis.

SPACE AND TIME PERSPECTIVE IN NORTHERN ST. JOHNS ARCHEOLOGY, FLORIDA—John M. Goggin—*Yale University Press*, Yale University Publications in Anthropology, No. 47, 147 p., illus., paper, \$2.00. The study points out a long continuity of culture in the Northern St. Johns Region, which began before the time of Christ and extended to the eighteenth century.

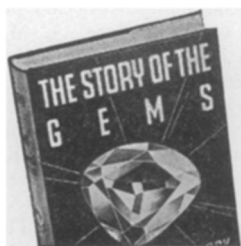
SQUEAL OF TIRES ROUNDING CURVES—Joseph Barnett and others—*Highway Research Board*, Bulletin No. 51, 16 p., illus., paper, 30 cents. When you hear tires squealing around a curve, it does not mean that the car is speeding.

38 COMMON QUESTIONS—38 AUTHORITATIVE ANSWERS: Subject Animal Experimentation—*National Society for Medical Research*, 14 p., paper, free upon request to publisher, 208 North Wells St., Chicago 6, Ill. Facts in handy form for use in combatting the propaganda of anti-vivisectionists.

VECTOR ANALYSIS—Earl C. Rex—*William C. Brown*, 88 p., illus., paper, \$3.25. An introductory text for mathematics and physics students containing 53 examples with their solutions.

Science News Letter, September 20, 1952

Maine fishermen are using a rubber suction hose to load sardines aboard boats from fish nets; the hose can load 65 tons of sardines in an hour, three times more than done formerly by pulling the net and fish aboard.



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GENETICS

Complete White-Negro Mixing in 1,000 Years

➤ **COMPLETE MIXING** of the white and Negro races in the United States will probably take about 1,000 to 2,000 years, or 40 to 70 generations.

The white-Negro mixture rate was discussed in Ithaca, N. Y., before the American Society of Human Genetics by Dr. Bentley Glass of the department of biology of Johns Hopkins University, Baltimore, and Dr. C. C. Li of the Graduate School of Public Health, University of Pittsburgh.

They reported that "3.6% of all the genes in the North American Negro population are freshly introduced from the North American white population per generation." Their figure is based on measuring the number of times certain genes, tiny carriers of heredity, occur in Negroes. One of the genes used was R⁰, a gene involved in Rh blood grouping.

According to their calculations, this gene occurs 63% of the time in West African Negroes, 44.6% of the time in North American Negroes and 2.8% in whites.

Seven different genes were studied, six of them affecting blood types and one affecting the ability to taste phenylthiocarbamide, a chemical that is unpleasant to some persons, has no taste for others. The difference is believed to be dependent upon inherited factors.

Drs. Glass and Li have found that on the basis of these gene measurements, the rate of mixing of genes between the white and Negro races can be found. They use a period of 10 generations (1675-1950) as the time during which mixing has been going on.

The average rate between 1675 and 1950 has probably not been constant, they say. It has, rather, been a curve that gets flatter as time goes by. In other words, the mixing was much greater at the beginning of their measurement period, 1675, than it is now.

Or, as they say, "Thirty percent of the genes in the U. S. Negro population are by now derived from the U. S. white population—but it will take far more than 10 additional generations for the next 30% to become transferred, unless the average rate is increased."

If the present average rate were to be kept up indefinitely, Drs. Li and Glass figure, it would take about 40 to 70 generations, or 1,000 to 2,000 years, before the Negro-white mixing is complete.

Their method not only tells what the total amount of intermixture is at the present time, but also tells about how fast the process has proceeded in the past.

Drs. Bentley and Glass also outlined a method for studying whether the rate in the three generations now living is greater, lower or identical with the average rate.

The study was based on Negro populations in Baltimore, New York and several other large cities.

Science News Letter, September 20, 1952

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