ARCHAEOLOGY

Eskimo Bone Armor Is Archaeological Trophy

BONE armor worn in American battles a thousand years ago, when Europe's fighters went clad in mail, is among the trophies of an archaeological expedition just returned from Alaska.

Mounds of prehistoric rubbish yielded the slats of bone armor, and the arrow heads, fish lines, harpoons, combs, needles, children's toys, and bits of clothing of Eskimos who lived at Cape Prince of Wales, the most westerly point on the North American Continent. The expedition, led by Henry B. Collins, Jr., was a joint venture of the Smithsonian Institution and the National Geographic Society.

The makers of the ancient objects are identified as Eskimos of the Thule stage of Eskimo prehistory, by Mr. Collins. While this type of culture has been known, especially in Greenland and central Canada, Mr. Collins' latest expedition confirms the theory that this ancient culture spread eastward from Alaska. The digging also probed into an earlier stage of Eskimo culture, preceding the Thule people, and showed the transition from one to the other.

Science News Letter, October 24, 1936

CHEMISTRY

New Poisonous Gas Found By Western Reserve

BEFORE the eyes of visitors to the Great Lakes Exposition in Cleveland, the discovery of a new poisonous gas was made by two Western Reserve University chemists. It is thionyl chlorofluoride, intensely irritating to inside of nose and mouth, but the announcement of the discovery specifically disclaims its possible use as a war gas.

A chemistry laboratory from Western Reserve University was transported to the exposition as a working exhibit. There Prof. Harold S. Booth and Francis C. Mericola produced the colorless gas new to science.

The gas condenses to a transparent liquid that boils at 12 degrees Centigrade (56.3 degrees Fahrenheit) and freezes to a snow-like solid at minus 140 degrees Centigrade.

When, despite careful handling, the gas escapes into the air it reacts with moisture present to form three dangerous gases, sulphur dioxide, hydrochloric acid and hydrofluoric acid.

Science News Letter, October 24, 1936

APPLICATIONS OF THE METHOD OF SYMMETRICAL COMPONENTS—Waldo V. Lyon—

ASPHALT ROADS-Spielmann and Hughes-Longmans, \$9.

BLUE BOOK OF FACTS OF MARINE ENGINEER-ING—E. R. Glass—Ocean, \$3.

BOILER FEED WATER TREATMENT-F. J. Mat-

thews—Chem. Pub. of N. Y., \$5.

BOOK OF A.S.T.M. STANDARDS: Part I, Metals;
Part II, Non-Metallic Materials—Amer. Soc.
for Testing Materials—Cloth: \$14, \$7.50 ea.;

half-leather: \$16, \$8.50 ea.

Book of A.S.T.M. Tentative Standards Amer. Soc. for Testing Materials, \$8 cloth, \$7 paper.

CYANIDATION AND CONCENTRATION OF GOLD AND SILVER ORES-John V. N. Dorr-McGraw.

DIESEL HAND BOOK—Julius Rosbloom—Diesel Engineering Inst., \$5. ELEMENTARY PRINCIPLES OF DIESEL ENGINE

CONSTRUCTION—T. G. Brown and F. W. Ziegenhagen-Bruce,

Engineering Properties of Soil-Hogentogler-McGraw.

FIELD ENGINEERING, 21st ed.—Text and Tables —W. H. Searles and H. C. Ives—Wiley, \$4. HANDBOOK OF ENGINEERING FUNDAMENTALS

-O. W. Eshbach-Wiley, \$5.

HIGH SPEED DIESEL ENGINES—L. H. Morrison—Amer. Tech. Soc., \$2.50.

HYDRAULICS—C. W. Harris—Wiley, \$2.85.*
INDUSTRIAL DUST—Drinker and Hatch—Mc-

Ingenious Mechanisms for Designers and INVENTORS, Vol. II—Franklin D. Jones—
Industrial Press, \$5.

A MANUAL OF PHOTO-ELASTICITY FOR ENGINEERS—L. N. G. Filon—Cambridge (Mac-

millan), \$1.50.

Mechanical Engineers' Handbook, 11th ed. (Vol. I—Power)—R. T. Kent, ed.—Wiley,

MECHANICAL TESTING OF METALS—P. F. Foster-Pitman, \$5.*

MIGHTY ENGINEERING FEATS-Harriet Salt-

Penn, \$2.50.

1936 PROCEEDINGS (A.S.T.M.): Part I, Committee Reports; Part II, Technical Papers—
Amer. Soc. for Testing Materials, \$6 ea., cloth, \$7 ea. half-leather.

Practical Aircraft Stress Analysis—D. R. Adams—*Pitman*, \$2.*

PROFESSIONAL ENGINEER—Esther L. Brown—Sage Found., 75c.

PROSPECTING AND OPERATING SMALL GOLD PLACERS, 2d ed.—W. F. Boericke—Wiley,

REINFORCED CONCRETE, MECHANICS AND DE-SIGN—Robert A. Caughey—Van Nostrand,

Sense and Safety on the Road—R. B. Stoeckel, M. A. May and R. S. Kirby—Appleton, \$1.50.

SEWERAGE AND SEWAGE TREATMENT-W. A. Hardenbergh—International Textbook Co., \$3.50.*

SMALL FOUR-STROKE AERO ENGINES—C. F. Caunter—Pitman, \$1.50.*
Soil Erosion and Its Control—Quincy C.

Ayres—McGraw, \$3.50.
THE STORY OF BRIDGES—Archibald Black— Whittlesey, \$2.50.

SYMPOSIUM ON HIGH-STRENGTH CONSTRUC-TIONAL METALS—Amer. Soc. for Testing Materials, \$1.50 cloth, \$1.25 paper.

THE THEORY OF CONTINUOUS STRUCTURES

AND ARCHES—C. M. Spofford—McGraw.

THEORY OF LUBRICATION—M. D. Hersey-Wiley, \$2.50.

THEORY OF MODERN STEEL STRUCTURES-Linton E. Grinter-Macmillan.

THERMODYNAMIC THEORY OF AFFINITY, A Book of Principles—Th. De Donder and P. Van Rysselberghe—Stanford, \$3.*
THERMODYNAMICS—L. C. Lichty—McGraw, \$3.

A TREATISE ON SCREWS AND WORDS. THEIR MILLS AND HOBS—P. Cormac—Sher-TREATISE ON SCREWS AND WORM GEAR,

VENTILATION MANUAL—Paul R. Jordan— Edwin A. Scott, \$3.

WATER TREATMENT AND PURIFICATION—Wm. J. Ryan-McGraw.

General Science

Fresh and Briny: The Story of Water As FRIEND AND FOE—Frances Rogers and

Alice Beard—Stokes, \$2.

GENERAL SCIENCE FOR TODAY—R. K. Watkins and R. C. Bedell—Macmillan, \$1.72.

A LEARNING GUIDE IN GENERAL SCIENCE, 9th yr.—Boyer, Clark, Gordon and Shelling—

MARCH OF SCIENCE-H. Gordon Garbedian-

Covici, \$3.

ODERN SCIENCE PROBLEMS—Obourn and Modern

MODERN SCIENCE PROBLEMS—ODOURN AND Heiss—Webster, \$1.44.

More Simple Science—Julian Huxley and E. N. DaC. Andrade—Harper, \$2.50.

The New Bible of Science—Joseph J. Inter-

land—Christopher, \$2.50.
SCIENCE—Ira C. Davis and Richard W. Sharpe -Holt, \$1.72.

Science Interests-F. L. Fitzpatrick-Teachers Col., Columbia, 60c.

THE SCIENCE OF EVERYDAY LIFE—Edgar F. Van Buskirk—Houghton, \$1.60.

SCIENCE STORIES, Book 3—Wilbur L. Beauchamp and others—Scott, 76c.

Scientific Interests in the Old South—

T. C. Johnson, Jr.—Appleton, \$2.50.*
SCIENTIFIC PROGRESS—Sir James Jeans, Sir William Bragg and others—Macmillan,

THE STORY OF HUMAN ERROR: FALSE LEADS IN THE STAGES OF SCIENCE—Joseph Jastrow, ed.—*Appleton*, \$3.50.

STUDY OF THE HISTORY OF SCIENCE—George

Sarton—Harvard, \$1.50.
Tours Through the World of Science,
Texas ed.—W. T. Skilling and J. Hudspeth –McGraw

—McGraw,
Wonder World of Knowledge Series:
Wonder World of Animal Life; Wonder
World of Why and How; Wonder World of
Modern Marvels; This Wonderful World;
Wonder World of How Things Work;
Wonder World of Nature Life; Wonder
World of Things to Make and Do; Wonder
World of Lands and Populas—Crossland and World of Lands and Peoples—Crossland and Parrish-Collins, 60c ea.

Workbook to Accompany Caldwell and Curtis's Science for Today—Curtis— Ginn, 60c.

THE WORLD OF SCIENCE—F. Sherwood Taylor -Reynal, \$3.50.

Geology

American Geophysical Union, 17th An-NUAL MEETING—TRANSACTIONS, 2 vols.—
National Research Council, \$3.50.
THE BASALTIC CINDER CONES AND LAVA
FLOWS OF THE SAN FRANCISCO MOUNTAIN

VOLCANIC FIELD, Bulletin 10-H. S. Colton

Down to Earth, trade ed.—Carey Croneis and Wm. C. Krumbein—U. Chicago, \$5.

Engineering Geology, 5th ed.—H. Ries and T. L. Watson—Wiley, \$5.

Economic Geology of Mineral Deposits—

Ernest R. Lilley-Holt, \$5.25.*

GEOLOGY OF THE MINNEAPOLIS-ST. PAUL METROPOLITAN AREA—George M. Schwartz —U. Minn., \$3.50.