# SCIENCE

FRIDAY, SEPTEMBER 27, 1935 No. 2126 Vol. 82 The Land of Your Possession: Dr. Isaiah Bowman 285 Special Articles: Caffeic Acid in Prunes and its Behavior as a Laxative Principle: E. MRAK, J. FESSLER and C. SMITH. Rockwood: Professor J. N. Elbert William The Effect of the Performance of Physical Work Pearce, Recent Deaths ..... on Mimosa: PROFESSOR W. E. BURGE and G. C. WICKWIRE Scientific Events: Scientific Apparatus and Laboratory Methods: The London School of Tropical Medicine; The Enlarged Chemistry Building of the University of A New Microcolorimeter: T. W. PRATT and DR. A. L. TATUM. An Easy Way to Reduce Electrifi-California at Los Angeles; The New Arboretum of Cornell University; The Hayden Planetarium of the American Museum of Natural History ...... cation of Paraffin Ribbons: Charles Wilson and JOHN S. HOCKADAY ..... Scientific Notes and News ..... 297 SCIENCE: A Weekly Journal devoted to the Advance-Vitalism, Irritability and Perpetuum Mobile: Proment of Science, edited by J. McKeen Cattell and pub-FESSOR F. H. PIKE. The Effect of Fluorine in lished every Friday by Natural Waters on the Teeth of Small Fish: DR. Andrew Neff. The Cytology of the Differentia-THE SCIENCE PRESS ting Spiral Vessel in Ricinus communis: Dr. F. New York City: Grand Central Terminal MURRAY SCOTT. Motion-picture Speed Nomencla-Garrison, N. Y. Lancaster, Pa. ture: MARTIN A. RYAN. Birch-bark Canoes: HAR-

#### THE LAND OF YOUR POSSESSION'

Annual Subscription, \$6.00

By Dr. ISAIAH BOWMAN

DIRECTOR OF THE AMERICAN GEOGRAPHICAL SOCIETY OF NEW YORK; SINCE JULY 1 PRESIDENT OF THE JOHNS HOPKINS UNIVERSITY

WHEN we say that "man does not live by bread alone" we imply that bread comes first. Over the greater part of the earth and for at least three fourths of our two billion planetary population the will to eat is the primary urge of "eternally hungry man." "It was farming time, everybody talked about the land," was the way one old-timer summed up his motivations as one of the pioneers of the Middle West during the high tide of migration off the stony hillsides of New England to the flatter acres of the prairie plains. While the historical aspects of land use and land dependence tempt me to make excursions, I yield to the temptation at one point only. The title of my address is taken from Joshua, 1:15, in recognition of the early land movements recorded in our common book of wisdom.

PROFESSOR BENJAMIN HARROW.

The Reptiles of China: Professor E. R. Dunn ..... 302

LAN I. SMITH .....

Biochemistry:

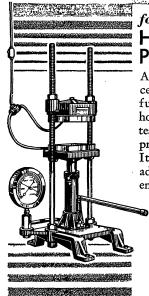
<sup>1</sup> Public lecture before the General Session of the American Association for the Advancement of Science, Minneapolis, Minn., June 26, 1935.

This antiquarian choice is supported by findings in Young's 1,000-page Analytical Concordance, which has about 1,600 citations on land (metaphorical and literal), while the two other main themes of the Bible, love and sin, come off with but 600 and 300 citations, respectively! The "pioneer fringe" was clearly recognized in that far day: "There remaineth yet very much land to be possessed." The migrants had an equally clear purpose: "That ye may live, go in and possess the land." In 1930 a wheat farmer of the High Plains of western Kansas, who had recently migrated from the eastern part of the state, answered my question of purpose as trenchantly as the record runs in Deuteronomy: "I came here, Mister, because I had to live." Cheap land, high-price wheat and the wet-period success of other High Plains farmers had drawn him forward to the degree that high taxes and high interest charges on the older farm had pushed him away.

SCIENCE is the official organ of the American Association for the Advancement of Science. Information regarding membership in the Association may be secured from the office of the permanent secretary, in the Smithsonian Institution Building, Washington, D. C.

Single Copies, 15 Cts.

# CARVER LABORATORY PRESS



# HOT or COLD PRESSING

Among the standard accessories of this powerful little hydraulic press, hot plates provide for tests where heat and pressure are required—Its other accessories adapt it to many different uses.

Write for catalog.

FRED S. CARVER

Hydraulic Equipment

Est. 1912

341 Hudson St., New York

#### **FILE**

Your Supplies and Apparatus
The SCHWARTZ WAY

FILES ALL SIZES OF CONTAINERS
From a Small Vial to a Gallon



You locate articles instantly

You find them in A1 condition

You avoid duplicating

Send for complete
Illustrated
catalog, also
Showing entirely
New Type

Laboratory Benches and Desks, with net prices SCHWARTZ SECTIONAL SYSTEM INDIANAPOLIS, INDIANA



UR improved type Jagabi Rheostats are appealing especially to those users of fine-adjustment current-regulating devices who are primarily influenced by design, quality of workmanship, ruggedness and performance. There are four sizes and 76 different ratings—carried in stock.

Please write for Catalog 1370-S.

# JAMES G. BIDDLE CO.

ELECTRICAL AND SCIENTIFIC INSTRUMENTS

1211-13 ARCH STREET, PHILADELPHIA. PA.

### HELLIGE STAINING JAR

An improved form of Coplin Jar



This jar affords an easier and more convenient insertion and removal of the slides, and has a capacity 60% greater than the Coplin. Originated by Hellige, it is now made available by us at a price far lower than formerly. Most dealers will now supply this Hellige improved type at the same price as the Coplin.



# HELLIGE

79 EAST 87TH STREET, NEW YORK



#### Plant and Forest Ecologist

B.Sc. in Agriculture, Master's in Forestry, Ph.D. in Plant Physiology. 20 years' experience research and teaching, including 3½ years' research with Carnegie Institution of Washington. Available at once.

Address F.W.H., Box A, Carmel, Calif.