SCIENCE


Friday, February 26, 1897.

CONTENTS:
Earth-crust Movements and their Causes . JOSEPH LE CONTE........................................321
Notes on Certain Beliefs concerning Will Power among the Siouan Tribes : ALICE C. FLETCHER.331
The Sand-plains of Truro, Welfleet and Eastham : AMADEUS W. GRABAU..........................334
A New Method of Driving an Induction Coil : CHAS. L. NORTON, RALPH R. LAWRENCE ..........335
Current Notes on Physiology:—
The Colorado Plains; The Pre-glacial Kanawha; The Rivers of Saginaw Bay : W. M. DAVIS.....336
Current Notes on Meteorology:—
Chalk-plate Weather Maps; Prizes for School Work in Meteorology; Some Interesting Reprints: R. DEC. WARD........................................337
Current Notes on Anthropology:—
The Age of Man; On Small Chipped Plints: D. G. BRINTON........................................339
Scientific Notes and News ........................................343
University and Educational News ....................343
Discussion and Correspondence:—
Scientific Literature:—
Scientific Journals:—
American Chemical Journal: J. ELLIOTT GILPIN. The Journal of Comparative Neurology: American Geologist.....................................356
Societies and Academies:—
New Books......................................................364

EARTH-CRUST MOVEMENTS AND THEIR CAUSES.*

INTRODUCTION.—SOURCES OF ENERGY.

Nearly all the processes of nature visible to us—well-nigh the whole drama of nature enacted here on the surface of the earth—derive their forces from the sun. Currents of air and water in their eternally recurring cycles are a circulation driven by the sun. Plants derive their forces directly, and those of animals indirectly through plants, from it. All our machinery, whether wind-driven, or water-driven, or steam-driven, or electricity-driven, and even all the phenomena of intellectual, moral and social activity, have still this same source. There is one, and but one, exception to this almost universal law, namely, that class of phenomena which geologists group under the general head of igneous agencies, comprising volcanoes, earthquakes, and more gradual movements of the earth's crust.

* Annual address by the President, Joseph Le Conte, read before the Geological Society of America, December 29, 1896.
Science 5 (113), 321-364.