

# SCIENCE

VOL. LXI

MARCH 27, 1925

No. 1578

## THE STUDY OF EARTH MOVEMENTS IN CALIFORNIA<sup>1</sup>

### CONTENTS

<i>The Study of Earth Movements in California:</i> DR. ARTHUR L. DAY .....	323
<i>The Second General Assembly of the International Geophysical Union:</i> PROFESSOR HARRY FIELDING REID .....	328
<i>In Memoriam—Sir Thomas Clifford Allbutt:</i> LT. COLONEL F. H. GARRISON .....	330
<i>Scientific Events:</i>	
<i>John Fillmore Hayford; The Eastern New York Section of the American Chemical Society; The National Institute for Research in Colloid Chemistry; Sigma Xi Aid to Research; The Pacific Division of the American Association for the Advancement of Science</i> .....	332
<i>Scientific Notes and News</i> .....	335
<i>University and Educational Notes</i> .....	339
<i>Discussion and Correspondence:</i>	
<i>Market Charts and the Law of Supply and Demand:</i> DR. P. G. NUTTING. <i>Two Fatal Cases of Potato Poisoning:</i> ALBERT A. HANSEN. <i>So-called Salmon Poisoning of Dogs:</i> C. R. DONHAM .....	339
<i>Scientific Books:</i>	
<i>Schuster and Nicholson on the Theory of Optics and Houstoun on Light:</i> DR. HERBERT E. IVES.....	341
<i>Scientific Apparatus and Laboratory Methods:</i>	
<i>Detecting and Estimating Small Amounts of Acetone:</i> PROFESSOR LOUIS KAHLBERG .....	344
<i>Special Articles:</i>	
<i>Mercury and Ionized Helium:</i> DRS. S. C. LIND AND D. C. BARDWELL. <i>The Native Host of the Chigger:</i> AUGUST E. MILLER .....	344
<i>The American Association for the Advancement of Science:</i>	
<i>Agricultural Sciences at the Washington Meeting</i> .....	346
<i>Science News</i> .....	x

SCIENCE: A Weekly Journal devoted to the Advancement of Science, edited by J. McKeen Cattell and published every Friday by

### THE SCIENCE PRESS

Lancaster, Pa.

Garrison, N. Y.

New York City: Grand Central Terminal.

Annual Subscription, \$6.00. Single Copies, 15 Cts.

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.

Entered as second-class matter July 18, 1923, at the Post Office at Lancaster, Pa., under the Act of March 3, 1879.

It has been the custom for a number of years for the retiring president to present in brief review a field of activity with which he has been associated rather than to undertake the detailed exploitation of any particular problem. I have therefore chosen to give some outline of an effort which has been in progress for four or five years only, but which is particularly appropriate to present in this time and place because there are so many in Washington who have been associated with it.

The present study of earth movements in California is planned to be of broader scope than a mere statistical study of earthquakes. It is intended to do somewhat more than record tremors with the seismograph, in order, by comparison with other similar records, to trace the path of the waves to a common center of disturbance, and so to obtain information about the manner of their transmission through the interior of the earth. This is a part of the project as heretofore, but we have wished to investigate not only the tremors which may be picked up here or there and their path traced to a distant point of origin, but their probable causes, the earth movements at the source, cumulative mass movements through which the enormous strains are set up and not alone the disturbances which indicate their release.

The particular project, out of which the present undertaking grew, started with Mr. Harry O. Wood, known to many of you as acting secretary of the Geophysical Union, following the war period; before that as the assistant in charge of the Seismological Station at the Kilauea Observatory, where he successfully recorded and analyzed local shocks of volcanic origin; before that as an assistant to Professor Lawson, at the University of California, and one of the collaborators in the preparation of the great monograph on the San Francisco earthquake of 1906. Guided by this experience, Wood prepared and published in the *Bulletin* of the Seismological Society a very elaborate project for the study of cumulative stresses and local earth movements in California on an extensive scale. Some of you may have read the scheme which he offered. It contemplated stations at intervals of 50 miles throughout the West Coast region and continuous observations over a period of years. Altogether, it was rather too extensive a project for any available agency and so after

<sup>1</sup> Address of the president of the Washington Academy of Sciences, January 13, 1925.

# Science

61 (1578)

*Science* 61 (1578), x-348.

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