

# SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE, PUBLISHING THE  
OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION  
FOR THE ADVANCEMENT OF SCIENCE.

FRIDAY, MAY 11, 1906.

## CONTENTS.

<i>Climatology of Tinajas Altas, Arizona:</i> DR. W J MCGEE.....	721
<i>A Symposium on Chemistry Requirements:</i> PROFESSOR J. F. SELLERS.....	730
<i>Scientific Books:—</i>	
<i>Ward's Status of the Mesozoic Floras of the United States:</i> PROFESSOR D. P. PENHALLOW. <i>A Respiration Calorimeter:</i> DR. H. P. ARMSBY. <i>Loeb's Studies in General Physiology:</i> DR. S. J. MELTZER.....	737
<i>Scientific Journals and Articles.....</i>	743
<i>Societies and Academies:—</i>	
<i>The Torrey Botanical Club:</i> C. STUART GAGER. <i>The Michigan Ornithological Club:</i> ALEXANDER BLAIN, JR.....	744
<i>Discussion and Correspondence:—</i>	
<i>The Fallacy of the Mutation Theory:</i> DR. A. E. ORTMANN. <i>Misrepresentations of Nature in Popular Magazines:</i> PROFESSOR A. R. CROOK. <i>Alluvial Slopes:</i> C. E. SIEBENTHAL .....	746
<i>Special Articles:—</i>	
<i>The Northern Limit of the Papaw Tree:</i> DR. CHARLES A. WHITE. <i>The Parasitism of Neocosmospora:</i> HOWARD S. REED. <i>Effects of an Unbalanced Ration:</i> W. M. MUNSON .....	749
<i>Notes on Organic Chemistry:—</i>	
<i>The Action of Ozone on Organic Compounds; Researches on the Amino Acids, Polypeptides and Proteids:</i> DR. J. BISHOP TINGLE .....	752
<i>The American Institute of Electrical Engineers and the Metric System.....</i>	755
<i>The California Earthquake at Ukiah:</i> DR. SIDNEY D. TOWNLEY.....	756
<i>Scientific Buildings and Collections at Stanford University:</i> PROFESSOR VERNON L. KELLOGG .....	756

<i>The University of California and the California Academy of Sciences.....</i>	757
<i>Scientific Notes and News.....</i>	757
<i>University and Educational News.....</i>	759

MSS. intended for publication and books, etc., intended for review should be sent to the Editor of SCIENCE, Garrison-on-Hudson, N. Y.

## CLIMATOLOGY OF TINAJAS ALTAS, ARIZONA:<sup>1</sup> PRELIMINARY REPORT.

### THE STATION.

TINAJAS ALTAS (colloquially, Tinaxaltas; a Spanish term commonly rendered 'high tanks') may be described as a locality in extreme southwestern Arizona about forty miles east of the mouth of Rio Colorado and three miles north of the Mexican boundary. The name denotes a number of tinajas, or tanks ('water-pockets' in the vernacular of western America, 'pot-holes' in British geology), found in the bottom of a precipitous gorge on the northeastern side of Sierra Gila, a granite range extending southeastward from Gila City and terminating in Sonora a few miles south of the international boundary. The tanks were well known to the aborigines in prehistoric times, and have been known to white men since Padre Kino passed by them in that notable expedition of 1699-1701 which led to the rediscovery of Rio Colorado and the subsequent mapping of the country beyond as a peninsula rather than an island. While California was a province of Mexico, one of the main overland routes connecting it with the capital

<sup>1</sup> Published by permission of the chief of the U. S. Weather Bureau.