Friday, March 22, 1907

CONTENTS
The American Association for the Advancement of Science:

Clocks—Ancient and Modern: Professor W. S. Eichelberger .......... 441
Section C and the American Chemical Society: C. E. Waters .......... 452
Scientific Books:

Davenport on Inheritance in Poultry: Professor T. H. Morgan ....... 464
Societies and Academies:

Discussion and Correspondence:

Special Articles:

Recent Discussions of the Origin of Gynosperms: Edward W. Berry .... 470
Botanical Notes:

The Collection and Study of Vegetable Galls; More Philippine Botany; Effects of Shading on Soil Conditions: Professor Charles E. Bessey ............ 472
Henri Moissan: Professor Charles G. D ornamentus .......... 473
John Krom Rees: Professor Harold Jacoby 475
Commission on Agricultural Research ........ 477
Seventh International Congress of Physiologists ............ 477
The Central Branch of the American Society of Naturalists .......... 477
Scientific Notes and News .......... 477
University and Educational News .......... 480

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THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
CLOCKS—ANCIENT AND MODERN

Mr. Chairman, Ladies and Gentlemen:

To those who have never had an opportunity to acquaint themselves with the history of the development of the modern clock, I wish to say that no attempt will be made to trace out that development. Time will not permit, as those familiar with the subject well know. I only wish to call to your attention a few points that I hope may be of general interest.

In Nepal, a small independent state situated on the northeastern frontier of Hindustan, there is still practised what is one of the crudest and probably earliest methods of measuring time. A copper vessel with a small hole in the bottom floats on water, sinks and fills sixty times a day. Each time it fills a gong, or ghari, is struck, in progressive numbers from dawn to noon; after noon the first gong struck indicates the number of gharis which remain of the day until sunset. Day is considered to begin when the tiles of a house can be counted or when the hairs on the back of a man's hand can be discerned against the sky. The day is divided into 60 gharis of 24 minutes each, each ghari into 60 palas and each pala into 60 bipalas.

Leaving India for Sumatra and stepping aboard a Malay proa we should there find, floating in a bucket of water, a cocoanut shell having a small perforation,