A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE, PUBLISHING THE

OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

EDITOBIAL COMMITTEE: S. NEWCOME, Mathematics; R. S. WOODWARD, Mechanics; E. C. PICKERING Astronomy; T. C. MENDENHALL, Physics; R. H. THURSTON, Engineering; IBA REMSEN, Chemistry; CHARLES D. WALCOTT, Geology; W. M. DAVIS, Physiography; HENRY F. OSBORN, Paleontology; W. K. BROOKS, C. HABT MERBIAM, Zoology; S. H. SCUDDER, Entomology; C. E. BESSEY, N. L. BRITTON, Botany; C. S. MINOT, Embryology, Histology; H. P. BOWDITCH, Physiology; WILLIAM H. WELCH, Pathology; J. MCKEEN CATTELL, Psychology.

FRIDAY, SEPTEMBER 4, 1903.

CONTENTS:

The U. S. Marine Hospital Service: DR. WALTER WYMAN	2 89
The General Efficiency of Technical Educa- tion: Professor W. C. Mendenhall	295
John Elfreth Watkins: MARCUS BENJAMIN	300
Societies and Academies:	
The Texas Academy of Science: Professor Frederick W. Simonds	301
Discussion and Correspondence :	
The International Congress of Arts and Sci- ences: PROFESSOR R. S. WOODWARD. Antarctica: Edwin Swift Balch	302
Shorter Articles:	
Kunzite, A New Gem: PROFESSOR CHARLES BASKERVILLE. The Toxic Effect of H and OH Ions on Seedlings of Indian Corn: DR. FRED A. LOEW. The Spongy Tissue of Strasburger: MARGARET C. FERGUSON. Re- cent Literature on Triassic Ichthyosauria: PROFESSOR JOHN C. MERRIAM	303
Notes on Physics:	
Interference of Light with Great Path Dif- ference; The Electromagnetic Theory of Matter: W. S. F	812
Current Notes on Meteorology:-	
March Weather Proverbs; Height of the Sea Breeze; Storms of the Great Lakes; Notes: PROFESSOR R. DEC. WARD	314
Botanical Notes:	
Recent Botanical Papers; Another Phyto- bezoar: PROFESSOR CHARLES E. BESSEY	815
Memorial of the late Walter Reed	316
Scientific Notes and News	316
University and Educational News	320

MSS. intended for publication and books, etc., intended for review should be sent to the responsible editor, Professor J. McKeen Cattell, Garrison-on-Hudson, N. Y. THE U.S. MARINE HOSPITAL SERVICE.*

GENTLEMEN: I beg leave to express my pleasure in meeting you at this assemblage, called by myself in accordance with section 7, of the act of congress approved July 1, 1902.

What may be the result of these annual conferences time must determine, but certainly we may consider the present, the first annual conference under the law, as a most noteworthy event. For the first time in the history of the United States there has been placed within its statutes, by the act of Congress referred to, a provision looking to harmonious and cooperative efforts in public health matters between the national government and the state governments.

This status has long been desired, but difficult of achievement by reason of our republican form of government. It has been difficult for the national government to extend its influence into state health matters without appearing to infringe upon the states' authority, and it has been difficult for the states, individually or collectively, to seek aid from the government without appearing to surrender authority reserved to them by the national constitution. In the meantime, however, the

* Opening address before the first annual conference of State and National Health Authorities, Washington, D. C., June 3, 1903.