## 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.

EDITORIAL COMMITTEE: S. NEWCOMB, Mathematics; R. S. WOODWARD, Mechanics; E. C. PICKERING Astronomy; T. C. MENDENHALL, Physics; R. H. Thurston, Engineering; Ira Remsen, Chemistry; Charles D. Walcott, Geology; W. M. Davis, Physiography; Henry F. Osborn, Paleontology; W. K. Brooks, C. Hart Merriam, 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.

F'RIDAY, APRIL 17, 1903.	
CONTENTS:	•
William Harkness: Professor A. N. Skinner	601
Applied Ecology: Professor B. E. Fernow	605
The Work of the Lick Observatory: Professor W. W. Campbell	
Scientific Books:—  Drude on Der Hercynische Florenbezirk: Professor V. M. Spalding. Fowke's Archeological History of Ohio: Warren K. Moorehead. Simonds on the Minerals and Mineral Localities of Texas: Professor H. W. Harper	616
Scientific Journals and Articles	620
Societies and Academies:—  The American Physical Society: Professor Errest Merritt. The Nebraska Academy of Science: Professor Robert H. Wolcott. The New York Academy of Sciences: Section of Anthropology and Psychology: Professor James E. Lough; Section of Astronomy, Physics and Chemistry: Dr. S. A. Mitchell. Columbia University Geological Journal Club: H. W. Shimer. The New York Society of Biology Teachers: G. W.	200
Hunter, Jr.	622
Discussion and Correspondence:— The Types of Linnæan Genera: President David Starr Jordan. Ridgway's Classification of the Falconiformes: Dr. Leonhard Stejneger. Hotel Headquarters of the American Association: Professor W. Le Conte Stevens. Proceedings of the American	
can Association: X	627
Shorter Articles:— Additional Specimens of the Japanese Shark, Mitsukurina: Professor Bashford	

DEAN. Early Instance of Tangible Lip-

reading: Dr. Henry Carrington Bolton.. 630

Mary Louise Duncan	Putnam: Professor	
FREDERICK STARR	6	32
The Royal Geographica	ıl Society 6	33
Scientific Notes and Ne	ws 6	34
University and Educat	$ional\ News$ 6	339

MSS. intended for publication and books, etc., intended or review should be sent to the responsible editor, Professor J. McKeen Cattell, Garrison-on-Hudson, N. Y.

## WILLIAM HARKNESS.

PROFESSOR WILLIAM HARKNESS, U.S.N., whose name has been identified with the work of the United States Naval Observatory for nearly forty years, died in Jersey City, N. J., February 28, 1903.

On his retirement for age from active service in December, 1899, he went to his home with the intention of returning to Washington, after a short rest, for the purpose of devoting his well-earned leisure to scientific work which the press of official duties had prevented him from completing. An attack of nervous prostration obliged him to defer returning to Washington until he should recover sufficient strength. Month by month he expressed his expectation soon to be strong enough to return. but he never recuperated sufficiently to carry out his cherished plans. Weakness of body confined him quite closely to the house, so much so that he dared to venture on the street not more than half a dozen