

SCIENCE

FRIDAY, OCTOBER 6, 1911

CONTENTS

<i>The British Association for the Advancement of Science:—</i>	
<i>Magnalia Naturæ; or, The Greater Problems of Biology:</i> PROFESSOR D'ARCY WENTWORTH THOMPSON	417
<i>Prospective Population of the United States:</i> DR. W J MCGEE	428
<i>The Silliman Lectures</i>	435
<i>Scientific Notes and News</i>	435
<i>University and Educational News</i>	439
<i>Discussion and Correspondence:—</i>	
<i>A Carboniferous Flora in the Silurian:</i> DAVID WHITE. <i>Professor Punnett's Error:</i> PROFESSOR F. C. NEWCOMBE. <i>Phenomena of Forked Lightning:</i> PROFESSOR FRANCIS E. NIPHER	440
<i>Scientific Books:—</i>	
<i>MacCurdy on Chiriquian Antiquities:</i> PROFESSOR FRANZ BOAS. <i>Elsden's Chemical Geology:</i> PROFESSOR J. P. IDDINGS	442
<i>The Relation between the Coloration and the Bathymetrical Distribution of the Cyclogasteridæ:</i> DR. CHARLES V. BURKE	447
<i>Special Articles:—</i>	
<i>Isostasy, Oceanic Precipitation and the Formation of Mountain Systems:</i> DR. P. G. NUTTING. <i>Musical Echoes:</i> DR. F. R. WATSON	453
<i>Societies and Academies:—</i>	
<i>The American Mathematical Society:</i> PROFESSOR F. N. COLE	455

THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE *MAGNALIA NATURÆ; OR, THE GREATER PROBLEMS OF BIOLOGY*¹

THE science of zoology, all the more the incorporate science of biology, is no simple affair, and from its earliest beginnings it has been a great and complex and many-sided thing. We can scarce get a broader view of it than from Aristotle, for no man has ever looked upon our science with a more far-seeing and comprehending eye. Aristotle was all things that we mean by "naturalist" or "biologist." He was a student of the ways and doings of beast and bird and creeping thing; he was morphologist and embryologist; he had the keenest insight into physiological problems, though lacking that knowledge of the physical sciences without which physiology can go but a little way: he was the first and is the greatest of psychologists; and in the light of his genius biology merged in a great philosophy.

I do not for a moment suppose that the vast multitude of facts which Aristotle records were all, or even mostly, the fruit of his own immediate and independent observation. Before him were the Hippocratic and other schools of physicians and anatomists. Before him there were nameless and forgotten Fabres, Roesels, Réaumur and Hubers, who observed the habits, the diet and the habitations of the sand-wasp or the mason-bee; who traced out the little lives, and discerned the vocal organs, of grasshopper and cicada; and who, together with generations of bee-keeping

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

¹ Address of the president to the Zoological Section. Portsmouth, 1911.