

SCIENCE

FRIDAY, SEPTEMBER 15, 1916

THE LIFE AND WORK OF
CARL LUDWIG¹

CONTENTS

<i>The Life and Work of Carl Ludwig:</i> PROFESSOR WARREN P. LOMBARD	363
<i>Animal Life as an Asset of National Parks:</i> JOSEPH GRINNELL AND TRACY I. STORER.	375
<i>The Revival of Interest in Bird Anatomy at the United States National Museum:</i> DR. R. W. SHUFELDT	380
<i>Scientific Notes and News</i>	382
<i>University and Educational News</i>	384
<i>Discussion and Correspondence:—</i>	
<i>President Wilson's Scientific Appointments:</i> DR. BARTON WARREN EVERMANN. <i>Fireflies Flashing in Unison:</i> DR. EDWARD S. MORSE. <i>A Further Note on Polyradiate Cestodes:</i> WINTHROP D. FOSTER	385
<i>Quotations:—</i>	
<i>Science and Commerce</i>	389
<i>Scientific Books:—</i>	
<i>Parsons on the Study of Color Vision:</i> PROFESSOR J. W. BAIRD	391
<i>Special Articles:—</i>	
<i>The Mammalian Erythrocyte—a Biconcave Disc:</i> DR. LESLIE B. AREY. <i>The Penetration of Balanced Solutions and the Theory of Antagonism:</i> DR. W. J. V. OSTERHOUT. <i>The Determination of Relative Humidity:</i> DR. EUGENE C. HOWE	392
<i>Societies and Academies:—</i>	
<i>The Astronomical Society of the Pacific</i> ..	398

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

WE are gathered together as teachers and investigators to commemorate the life of a teacher of teachers and an inspirer of investigators. We represent many phases of academic activities, most of which are far removed from the special branch of science to which Ludwig devoted his life. Therefore, only a greatly condensed account of his physiological discoveries will be given, and most of this paper will be devoted to his life, and an attempt to bring out from the testimony of his old pupils and friends, the traits of character which gave him his remarkable power as a scientist, and enabled him to win the reverence and, I may say, the love, of all those who had the good fortune to work with him as students and colleagues.

Carl Frederick Wilhelm Ludwig was born in Witzenhausen, a little town on the banks of the Weser, not far from Cassel, in the electorate of Hesse, December 29, 1816. His father, an officer in the Napoleonic wars, had been compelled by wounds to give up a military career, and being in favor with the elector, was appointed Rentmeister in Hanau. Ludwig came from a race of fighters, and a deep scar on his upper lip gave evidence of his participation in student duels. He was proud of his descent, and I recall an amusing reference which he made to the fact that the Hessians had played a part in the early history of our land.

He was the second of six children, who

¹ Read before the Research Club of the University of Michigan, at the "Memorial Meeting," April 19, 1916, by Warren P. Lombard.