

SCIENCE

FRIDAY, JANUARY 12, 1912

THE AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE

AERIAL ENGINEERING¹

CONTENTS

<i>The American Association for the Advancement of Science:—</i>	
<i>Aerial Engineering</i> : PROFESSOR A. LAWRENCE ROTCH	41
<i>The Independence of the Culture of the American Indian</i> : PROFESSOR ROLAND B. DIXON	46
<i>The Percentage of Women Teachers in State Colleges and Universities</i> : PROFESSOR C. H. HANDSCHIN	55
<i>Scientific Notes and News</i>	57
<i>University and Educational News</i>	60
<i>Discussion and Correspondence:—</i>	
<i>What is Biology and What is a Biological Survey?</i> PROFESSOR FRANCIS RAMALEY.	
<i>Physical Laboratory Instruction</i> : CHESTER A. BUTMAN. <i>The Meetings of Affiliated Societies</i> : PROFESSOR A. M. REESE	60
<i>Quotations:—</i>	
<i>The British Insurance Act</i>	62
<i>Scientific Books:—</i>	
<i>Ross's The Changing Chinese, Oriental and Western Cultures in China</i> : PROFESSOR LESTER F. WARD. <i>Herrick on the Natural History of the American Lobster</i> : DR. PHIL. B. HADLEY. <i>King's Farmers of Forty Centuries</i> : PROFESSOR T. C. CHAMBERLIN	64
<i>Scientific Journals and Articles</i>	73
<i>Wheat Rusts and Sun Spots</i> : PROFESSOR C. S. GAGER	74
<i>Special Articles:—</i>	
<i>Tier-like Arrangement of the Elements of Certain Woods</i> : SAMUEL J. RECORD. <i>A Sclerotinia on Apple</i> : J. B. DEMAREE	75
<i>The American Society of Naturalists</i> : DR. CHARLES R. STOCKARD	78
<i>The Washington Meeting of the American Chemical Society</i> : PROFESSOR C. L. PARSONS	79
<i>The American Phytopathological Society</i> : DR. C. L. SHEAR	80

THE attention of the section was directed to aeronautics as long ago as 1886, when my distinguished predecessor, Octave Chanute, in his address at Buffalo, mentioned the possibilities of aerial navigation, a subject which entirely absorbed his later years and which he lived to see completely realized. Again in 1904, Professor C. M. Woodward devoted a portion of his vice-presidential address at Philadelphia to a consideration of the navigation of the air, which at that time had been accomplished with dirigible balloons. Papers on aeronautical subjects, or relating thereto, have been presented in increasing numbers to the section, reaching a maximum of eleven in 1909. Last year, the writer, as chairman of the section, made a special effort to secure such papers through a preliminary circular, thus worded:

The rapid advance in the navigation of the air during the past year has attracted serious attention to scientific aeronautics. The construction of dirigible balloons and flying machines is essentially a mechanical problem and as such merits consideration by this section, especially since no engineering society has yet taken this action. Accordingly papers are invited relating to aerodynamics and other branches of aeronautics and also discussing possible courses of instruction in colleges and technical schools.

As a result ten papers were presented and an aeronautical curriculum was for the first time discussed here.

The subject of this address, "Aerial

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 vice-president and chairman of Section D—Mechanical Science and Engineering. Washington, 1911.