

SCIENCE

FRIDAY, APRIL 2, 1915

MYCOLOGY IN RELATION TO PHYTOPATHOLOGY¹

CONTENTS

| | |
|---|-----|
| <i>Mycology in Relation to Phytopathology:</i> DR. C. L. SHEAR | 479 |
| <i>Edward Weston's Inventions:</i> DR. LEO BAEKE- LAND | 484 |
| <i>Note on the Orbits of Freely Falling Bodies:</i> PRESIDENT R. S. WOODWARD | 492 |
| <i>Arthur von Auwers:</i> PROFESSOR R. G. AITKEN. | 495 |
| <i>Scientific Notes and News</i> | 497 |
| <i>University and Educational News</i> | 501 |
| <i>Discussion and Correspondence:—</i> | |
| <i>The Origin of Human Twins from a Single Ovum:</i> MARGARET V. COBB. <i>Naturalist's Directory:</i> S. E. CASSINO | 501 |
| <i>Scientific Books:—</i> | |
| <i>Kleb's Variolation im achtzehnten Jahrhun- dert:</i> DR. F. H. GARRISON. <i>Rhodes's Primer on Alternating Currents; Barr and Archibald on Alternating-Current Ma- chinery:</i> PROFESSOR RALPH R. LAWRENCE. | 502 |
| <i>Scientific Journals and Articles</i> | 505 |
| <i>Special Articles:—</i> | |
| <i>Interpolation as a Means of Approximation to the Gamma Function for High Values of n²:</i> RAYMOND PEARL | 506 |
| <i>The Geological Society of America:</i> DR. ED- MUND OTIS HOVEY | 507 |

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

IN preparing a presidential address one has always to meet and answer the same old question that has confronted presidents and retiring presidents of societies ever since presidents and presidential addresses were invented, *i. e.*, Should the effort be primarily to entertain and amuse, or to instruct? I fear that any effort of mine to entertain would be a grievous failure, while an effort to instruct may be but little more successful. Since of two evils we are advised to choose the lesser, I have decided to attempt something more in the line of instruction than entertainment. Instruction is usually regarded, I believe, as a more or less normal function of a specialist, and as modern social and economic conditions have compelled specialization, we must accept the consequence.

The subject of plant pathology properly includes all the phenomena connected with abnormal forms and functions of plants. These abnormal conditions may be grouped in three classes, according to their origin: First, those which are of non-parasitic origin; second, those which are caused by plant parasites; third, those which are caused by animals. Excluding from present consideration diseases directly due to animals, we have left the two classes, non-parasitic and parasitic. By far the greater part of the trouble with which the phytopathologist has to deal are caused by plant parasites. In fact, the greater part of the phytopathology of to-day might quite properly be designated parasitology, and

¹ Address of the retiring president of the Botanical Society of Washington, March 2, 1915.

Science

41 (1057)

Science 41 (1057), 479-514.

ARTICLE TOOLS

<http://science.sciencemag.org/content/41/1057.citation>

PERMISSIONS

<http://www.sciencemag.org/help/reprints-and-permissions>

Use of this article is subject to the [Terms of Service](#)

Science (print ISSN 0036-8075; online ISSN 1095-9203) is published by the American Association for the Advancement of Science, 1200 New York Avenue NW, Washington, DC 20005. The title *Science* is a registered trademark of AAAS.

Copyright © 1915 The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works.