SCIENCE

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FRIDAY, APRIL 18, 1902.

CONTENTS:

Plant Pathology: A Retrospect and Prospect:	
Dr. Erwin F. Smith The Biological Basis of Legislation governing	601
The Biological Basis of Legislation governing	
the Lobster Industry: George W. Field	612
Membership of the American Association	616
Scientific Books:—	
Morgan's Regeneration: E. G. C. Giesen-	
hagen's Die Farngattung Niphobolus: Pro-	
FESSOR LUCIEN M. UNDERWOOD. Gatter-	
mann's Practical Methods of Organic Chem-	
istry; Shaw's Laboratory Exercises in Gen-	
eral Chemistry; Noyes's Elements of Qual-	
itative Analysis: Professor E. Renouf	620
Societies and Academies:—	
The Chicago Section of the American Mathe-	
matical Society: Professor Thomas F.	
Holgate. New York Academy of Sciences:	
Section of Biology: Professor Henry E.	
Section of Biology: Professor Henry E. Crampton. Section of Anthropology and	
Psychology: Dr. R. S. WOODWORTH. The	
Torrey Botanical Club: Professor Edward	
S. Burgess. Northeastern Section of the	
American Chemical Society: Professor	
HENRY FAY. The Onondaga Academy of Science: P. F. Schneider. The New York	
Science: P. F. Schneider. The New York	
Association of Biology Teachers: G. W.	
Hunter, Jr	625
Discussion and Correspondence:—	
An American Journal of Physics: Pro-	
FESSOR CARL BARUS. The Centenary of	
Hugh Miller: Dr. John M. Clarke. The	
American Association (Section B, Physics):	
Professor E. F. Nichols, Professor W. S.	
Franklin	629
Botanical Notes:—	
Fig Growing in the United States; Summer	
Botany at Wood's Holl; A Journal for Stu-	
dents of Mosses; The Botanists at Pitts-	
dents of Mosses; The Botanists at Pitts- burg; A New Distribution of Fungi: Pro-	
FESSOR CHARLES E. BESSEY	
Aeronautics: R. H. T	
U. S. Civil Service Examinations	634
Scientific Notes and News	635
University and Educational News	640

PLANT PATHOLOGY: A RETROSPECT AND PROSPECT.*

THE study of plant diseases has made remarkable progress within the last two decades. This is commented upon at home and abroad. Perhaps in no field outside of organic chemistry or of animal pathology and bacteriology have the advances been greater. In casting about for a subject, it has seemed to the speaker therefore that perhaps he could not do better in the time allotted to the presidential address than to consider, first, the state of plant pathology prior to the year 1880; second, the progress which has been made from that time to the present; and, third, some of the problems which now confront the investigator. Nothing beyond a popular sketch is contemplated.

The twenty years preceding 1880 were years of stress and uncertainty in the biological world. Pasteur and Cohn had laid the foundations of modern bacteriology and the whole world was agog with interest over the new doctrines of fermentation and of disease. Sachs and de Bary had done equally magnificent work in plant morphology and physiology. But the great masters were not having everything their own way. Hallier and Billroth in Germany were upholding a crazy doctrine of *Presidential address before the Society for Plant Morphology and Physiology, Fifth Annual

Meeting, New York, January 1, 1902.