SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE, PUBLISHING THE OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

FRIDAY, NOVEMBER 18, 1904.	
CONTENTS:	
The Sphere of Bacteriology: Professor Edwin Oakes Jordan	657
Evolution of Weevil-resistance in Cotton: O. F. Cook	666
Scientific Books:— Frick's Physikalische Technik: Professor J. S. Ames. Sabin's Technology of Paint and Varnish: Professor A. H. Gill. Gaupp's Anatomy of the Frog: Professor J. S. Kingsley	670
Scientific Journals and Articles	672
Societies and Academies:— American Mathematical Society: Professor F. N. Cole. American Chemical Society, Northeastern Section: Dr. Arthur H. Comey. Philosophical Society of Washington: Charles K. Wead. Anthropological Society of Washington: J. D. McGuire. Torrey Botanical Club: Edward W. Berry. Society for Experimental Biology and Medicine: Professor William J. Gies	674
Discussion and Correspondence:— Membership of the American Association: X. An Artificial Root for Inducing Capillary Movement of Soil Moisture: F. H. KING. Hybrid Wheats: DR. W. J. SPILLMAN: Germany and the Metric System: SAMUEL S. DALE. Variæ Auctoritatis: HENRY W. HAYNES	
Special Articles:— An Overlooked Form of Stereoscope: Pro- FESSOR JOSEPH JASTROW. The Nature of the Action of Drugs on the Heart: Dr. A. J. CARLSON	683
Quotations:— The College Year	689
Botanical Notes:— Botany as a Factor in Education; The Birches; Forestry Notes: Professor C. E. Bessey	689
Industrial Education in Germany	691
The Johnston Scholarships of the Johns Hop- kins University	692
The New York Historical Society	692

American Association for the Advancement of Science, Section C: Professor Charles	
LATHROP PARSONS	693
Trimmed Copies of Science	693
Scientific Notes and News	693
University and Educational News	695

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

THE SPHERE OF BACTERIOLOGY.*

It is possibly a contemporary delusion hat we are living in a period of unexamoled mental activity. The life of the inrepid modern scholar affords opportunity for self-deception. If one becomes a memer of a sufficient number of learned and uasi-learned societies, and attends comnittee meetings for an adequate variety of surposes, the impression of profitable intelectual endeavor may be prematurely acuired. There is much, however, to account for the prevailing sensation of breathless dvance. The physiological and psychologcal accompaniments of a breakneck pace re not altogether lacking in the modern vorld, and there are bacteriologists in articular who will lend a credent ear to ffirmations of the rapidity of scientific progress. However this may be, few can uestion that the development of the scince of bacteriology has been marked by n unusual tempo. To those who have folowed this development closely, discovery as trod upon the heels of discovery in ewildering succession. The scant thirty

* Read before the Section of Bacteriology, International Congress of Arts and Science, Universal Exposition, St. Louis.