

BOTANICAL SEMINAR OF THE UNIVERSITY OF NEBRASKA.

IN a convocation at the opening of the semester, meetings were appointed for October (papers by Dr. Bessey, Dr. Pound and Dr. Clements), November (symposium on cytology led by Dr. Ward), December (papers by Dr. Ward, Dr. Clements and Mr. Horne), January (symposium on physiology led by Dr. Bessey).

October 22, 1898, papers were read and discussed as follows: 'Recent studies in the arrangement of the families of Protophytes,' by Dr. Bessey; 'A review of Pax's Pflanzenverbreitung des Carpathiens,' by Dr. Clements; 'A discussion of Kuntze's *Revisio generum plantarum*, III^u,' by Dr. Pound.

It was agreed that the last paper should be prepared for early publication.

THE ACADEMY OF SCIENCE OF ST. LOUIS.

At the meeting of the Academy of Science of St. Louis on the evening of October 17, 1898, Mr. C. H. Thompson spoke of some interesting stylar movements of certain *Marantaceæ*, connected with their pollination.

Seven persons were proposed for active membership in the Academy.

At the meeting of the Academy on the evening of November 7, 1898, Mr. James A. Seddon, of the Missouri River Commission, presented a paper on 'Resistance to Flow in Hydraulics,' in which the point was made that relatively a small part of this resistance, so far as open streams were concerned, was directly attributable to friction against the bottom and limiting banks, but that the resistance was found acting between accelerations and impacts and showed in forced distortions of the free surface, from which forms the energy passed into internal motion.

Seven persons were elected to active membership in the Academy.

WILLIAM TRELEASE,
Recording Secretary.

ALABAMA INDUSTRIAL AND SCIENTIFIC SOCIETY.

THE regular fall meeting of this Society was held in Birmingham, November 8, 1898, Professor M. C. Wilson, of Florence, President, presiding. About fifteen members and others

were present. The Secretary read the report of a committee appointed for the purpose of considering the matter of recommending legislation to secure full returns of mineral statistics. In this report it was recommended that the Society ask the Legislature to amend the State mining laws so as to require the operators and lessees of mines, quarries, furnaces, coke works, clay beds and industries based on clay to make monthly returns of their production to the State Mine Inspector, and at the end of the year an annual report of the same. This course, it is thought, would be most likely to secure full and accurate returns. The Society then adopted resolutions requesting the Governor to urge upon the Legislature the importance of making appropriation for the purpose of securing representation for the State at the coming Paris Exposition, and also of memorializing Congress to take suitable steps for bringing about a change in the present French tariff laws so far as regards American iron.

There were no formal papers presented at this meeting, but steps were taken to secure articles at future meetings by assigning definite subjects to members. Seven new members were elected, after which the Society adjourned until the annual meeting in January, at which time there will be an election of officers for the ensuing year.

EUGENE A. SMITH,
Secretary,

NEW BOOKS.

Food and Feeding. SIR HENRY THOMPSON. London and New York, Frederick Warne & Co. 1898. Ninth Edition, enlarged and revised. Pp. 312. \$1.75.

Bush Fruits. FRED. W. CARD. New York and London, The Macmillan Co. 1898. Pp. xii+537. \$1.50.

Nature Study for Grammar Grades. WILBUR S. JACKMAN. Danville, Ill., Illinois Printing Co. 1898. Pp. 407.

Répertoire bibliographique des principales revues française pour l'année, 1897. DR. JORDELL. Paris, Per Lamm (Librarie Nilsson); New York, Lemcke & Buechner. 1898. Pp. 209.