

AMUSEMENTS

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PROF. JACKSON SPEAKS ON LOSSES.
Talks to M. A. H. S. Club at Union.

Before thirty members of the Mechanic Arts High School Club at the Union Monday evening Professor Dugald C. Jackson gave an outline of the losses of energy in manufacturing processes. He began with the development of the steam by Watt, and passed in turn to the introduction of the condenser, application of the steam engine as a locomotive, the development of the Bessemer process for steel rails, the passing of the Bessemer process and the development of the open-hearth process, the early work in dynamos, development of electric car motors by Sprague and Richmond, introduction of carbon brushes, development of electric lighting, and invention of first incandescent light.
A brief business meeting preceded Prof. Jackson's talk, and N. Levy 1911 furnished musical entertainment on the violin.

SHIMER CLASSIFIES FAUNA.

Dr. H. W. Shimer of the geological department, is making a catalogue of all the fauna of North America, classifying them by localities and species. This catalogue, which is unique and will ultimately be enlarged to embrace all the fauna of the world, is to be used as a basis for the courses in index fossils.

CHEMISTRY THESES ASSIGNED.

Several Seniors Started on Investigations. Practical and Theoretical Work.

From the long list of possible subjects for theses in the chemical engineering department, the following have been assigned:

Under industrial chemistry.—An experimental study of the soda recovery and causticizing plant of the Champion-International Company, Lawrence, Mass., by Eleazer Myers and Cheney H. Criswell, A. B., both from the course in chemical engineering, under Dr. W. H. Walker.

An efficiency test on the multiple effect evaporator in use at the works of the Merrimac Chemical Company, North Woburn, by Harold P. Gurney and William Hervey Toppan, both of the chemi-

cal engineering course, under Dr. W. H. Walker.

An efficiency test upon the electrolytic hydrogen and oxygen generator constructed by Messrs. Dill and Bent in 1906, by Utar J. Nicholas of the electrical engineering course, under Dr. W. Walker.

Under Physical and Theoretical Chemistry.—The constitution of ferric sulphocyanate in aqueous solution, an investigation to consist in preparing a pure aqueous solution of the salt, and by determination of its freezing point, conductance, etc., to conclude as to its molecular condition in the dissolved state. Also study of complexes formed by addition of potassium sulphocyanate to ferric sulphocyanate included in the investigation. To be carried out by Alfred B. Babcock of the chemical engineering course, under Dr. M. S. Sherrill.

Under the studies in the cinnamic acid series.—The problem of the production of industrial fusel oil by a process not involving fermentation, by Arthur T. Hineckley of the chemistry course, under Dr. S. P. Mulliken.

A procedure for the isolation of dyes in mixtures or on the fibre, by John A. Kydd, of the course in chemistry under Dr. S. P. Mulliken.

In inorganic and analytical chemistry.—A chemical and microscopical investigation of the cause of breakage in steel rails by Rufus William G. Wint of the course in chemistry, under Dr. H. Fay.

In work on food, food products and adulterants, there will be: An estimation of caffeotannic acid and caffeine by William C. Taylor of the chemistry course under Mr. A. G. Woodman.

CLAYS OF NORTH DAKOTA.

The results of the work of Mr. C. H. Clapp of the geological department on the clays of North Dakota have been published in the fourth biennial report of the North Dakota Geological Survey. He is now at work on the relations of granites in Essex County.

PROF. CROSBY RETURNS.

Professor W. C. Crosby has returned from Alaska, where he has been engaged in private work since August. He returned by way of Panama in order to see the recent progress on the canal. He is now engaged in work for the New York Metropolitan Water Board.

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