

of the efficiencies of several different vats in the pasteurization and sterilization of milk.

W. H. Thomson—The effects of Carbon Bisulphide on the germination of grains, the object being to determine whether the killing of insects by this means will in any way injure the growing qualities of the grains.

COURSE IN CHEMISTRY.

A. D. Carrier—The analysis of various mineral and vegetable oils.

J. L. Haehnlen and F. Heckel—The chemistry of explosives, especially the analysis of the various modern explosives, such as smokeless powders, nitro-explosives, etc.

O. P. Maxwell and G. M. Norman—Organic research work, chiefly in the line of the Terpenes.

M. R. Stevenson—Some problems connected with the paper industry, especially with reference to the possible recovery of by-products from what is now waste material. Mr. Stevenson and Dr. Pond spent some time at the Morrison & Cass Paper Co.'s works at Tyrone early in February. The investigations will chiefly be carried on with material from this company's plant.

COURSE IN CIVIL ENGINEERING.

W. F. Barclay and J. Neubert—A design for a system of sewers for Bedford, Pa., which town has at present a very incomplete system.

R. C. Bell and A. H. Trautman—A plan for the separation of railroad and highway grades at Lemont, Pa.

N. W. McCallum and E. S. Williams—A design for a system of sewers for Westfield, Tioga Co., Pa.

W. D. Stevenson—A design for a locomotive round-house.

H. A. Wagner—A design for a steel roof.

COURSE IN ELECTRICAL ENGINEERING.

W. P. Beyerle—The electrolytic separation of metals.

D. E. Carpenter—A comparative test of various commercial incandescent lamps.

W. B. Dawson and V. M. Weaver—The design and construction of a split-phase transformer.

H. G. Gorr and W. T. Griffin—The various uses to which electricity is applied in mining.