

TECHNICAL REVIEW.

About fifteen citizens within a fourth of a mile radius of the center of the town of Northboro, Mass., are forming a co-operative private electric light plant. A gasoline engine and a direct current dynamo of about two or three hundred lights capacity will probably be installed.

A report to the Academy of Sciences of Paris on the result of an experiment with flour treated in both the ordinary way and by electricity, under similar conditions, states that the flour subjected to the electric influence was much lighter in color, but that its taste and odor were far inferior to that of flour treated by the ordinary method.

References were made in these columns two months ago to the results of tests on a ten H. P. steam turbine of the DeLaval type, made by the Prescott Manufacturing Co., of Philadelphia. This turbine now forms part of the permanent apparatus for testing purposes in the Experimental Engineering Laboratory. When tested in December the steam consumption per brake horse-power per hour was 50 lbs.; four nozzles were in action and the governing was not as satisfactory as might be desired. In the tests made two weeks ago with two nozzles in use but 27.86 lbs. of steam were used per horse-power per hour with 16.36 degrees super-heat and 14.8 inches (vacuum) of mercury. Some of the main results from the test are as follows:

Time of Test	1 hr. 30 min.
Revolutions per min.	2551
Temp. Admission steam	352.4 degr. Fahr.
Temp. Exhaust steam	167
Temp. Condensed steam	99.1
Pressure Admis. steam	156.1 lbs (gauge)
Pressure steam under governor	139.6 lbs (gauge)
Weight steam used per hr.	2:53 lbs
Barometer reading	29.243 inches

The economy of this turbine as shown in the above test compares favorably with the better results reported for turbines of this size.

Probably the most interesting feature and the one which suggests further investigation is the very large decrease in steam consumption which was due principally to the cutting out of service of two of the nozzles, the machine evidently consuming more than was necessary for good economy in the first series of tests made two months ago. The results of the trials thus far made are in line with the results of tests by Prof. W. F. M. Goss on a DeLaval turbine in which a large percentage of economy was shown by using two nozzles instead of four; also the steam pressure under the governor was, considerably less than that of the admission steam. The steam under the governor while considerably less than that in the main steam pipe in the State College tests, does not represent a net loss of energy proportional to the decrease. In fact, the less the power developed, the greater will be the difference between the pressures under the governor and in the main steam pipe. There is room for much better governing of the new turbine and after running enough to wear the boxes down to a good bearing, should give even better results. While the steam velocity through the buckets is very high, it has not been shown that the limit for maximum efficiency has been exceeded.

Base Ball.

The arrival of Coach "Jimmie" Sebring of the Cincinnati team on Friday last, caused a stir in the work of the baseball squad. Sebring, instead of staying two weeks as was the original intention, is obliged to leave on Thursday the 29th, but during his short stay here, the Armory has been given over to the candidates and they have received a good deal of valuable help. Sebring thinks we have good material and ought to turn out a team that will

compare favorably with those of other colleges. All but two of last year's men are out for their old positions and about thirty others, some of whom have already played with teams of good standing. The outfielders are the most uncertain elements of the team at present; "Cal" Mocrhead being the only one who is sure of a place on the Varsity. Owing to the short time left before the trip South, Captain Ray has selected the fifteen most likely candidates, and will devote most of the practice from now until March 30th to selecting the team for the trip from among them. As soon as out of door practice can be started however, every man will be given a chance to show what he can do. Manager Stamm is having some trouble in filling up the schedule, but among other games, he hopes to secure one with Lehigh here at State. The schedule as it stands, however, is probably the best that any State team has ever had, and, although it includes some formidable colleges, Captain Ray expects to make fully as good a showing as that of last year's team.

COLLEGE ORBIT.

As a result of the recent trouble at the Massachusetts Agricultural College at Amherst, Mass., the entire Senior class has voted to withdraw from the college.

A short time ago thirty members of the class were declared guilty of ungentlemanly conduct in the classroom. They were given opportunity to make amends but they failed to satisfy the demands of the faculty who then ordered the class to make a public apology. Three Seniors were suspended for a year. The class objected to the suspensions and, as the faculty refused to reconsider their action, the class then decided to withdraw in a body.—Dickinsonian.