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(Continued from page 3.)

generating 100 horse power each. One of these has been reset during the summer in the power plant of Lowell, south of the old boiler plant. The carpenter shop, originally on the second floor of the latter building, has been moved into the old boiler room. On the ground floor the old pipe shop has been lowered four feet to bring it on a level with the Lowell power plant and has been cleaned out to make room for two 250 horse-power water tube boilers, each capable of maintaining 250 pounds pressure. Facilities for a new pipe shop have been provided in the southwest end of the Copley Hall building.

The office of the chief engineer has been removed to Lowell building in a position overlooking both boiler plants. An old smoke stack behind engineering A has been removed and all present boilers will connect with a large stack near the electrical engineering building.

A tunnel fourteen feet wide, connecting the two boiler rooms, has been constructed and at a point midway between the boilers a turn table has been set. From this point a second tunnel six feet wide extends into the basement of Copley Hall, where the coal will be taken in from Clarendon street. The coal will be conveyed as needed in one-ton cars to the boiler rooms, where it will be fired to the boilers directly from the cars.

In the basement of the Pierce building about two-thirds of the old Tech lunch room, which was recently removed, has been added to the laboratory space of the mechanical engineering department. The recently acquired 500 kilowatt Parsons turbine with generator shaft and bearings has been installed in the room. It is to run in connection with the large superheater purchased last year, steam being furnished at 200 pounds pressure and 150 degrees of superheat. The turbine is fitted with a hydraulic brake instead of a generator, though it is so arranged that a generator can be added. At present the Institute is not able to obtain the generator so that the water brake will be used. This will absorb the load and measure the pressure supplied, enabling careful experiments in efficiency to be made.

This Parsons turbine, which is considered the most important addition in recent years to the mechanical engi-

neering department, was manufactured and furnished by the Westinghouse company, who made the Institute a liberal donation, the difference being kindly furnished by members of the visiting committee of the department.

Faculty Changes

Several changes in the instructing staff, taking effect with the opening of the school year, have been made. From the chemical department the following leave the Institute to enter technical positions: W. W. Kennedy, F. B. Shields, H. W. Mahr, and C. R. Bragdon. Messrs. R. D. Gale and G. F. White will devote their full time to advanced work for a higher degree, the latter at Johns Hopkins. C. L. Peabody will be transferred from the analytical laboratory to that of technical analysis, G. L. Nicker on from inorganic to analytical chemistry, Dr. E. B. Spear from analytical to inorganic, R. G. Woodbridge, Jr., from organic to analytical. The new assistants are C. W. Clark, industrial chemistry; H. S. Chandler, organic chemistry; W. H. Toppan and A. B. Babcock, theoretical chemistry. Dr. W. R. Whitney has been appointed non-resident professor of chemical research.

Waldemar Lindgren, of the United States geological survey, has been appointed lecturer in economic geology, to succeed Professor Kemp. Dr. H. W. Shimer has been appointed assistant professor of paleontology, and C. H. Clapp instructor in geology. Allen French, 1892, after a year of satisfactory work in the English department, has resigned to teach at Harvard. He will be succeeded by Sidney Gunn of Dalhousie and Harvard.

NOTICES.

MANDOLIN CLUB—Meeting of members Saturday at 1 P.M. in Social Room of New Union for election of new leader. Coleman will not be back.

NOTICE:—Candidates for the 1911 football team will report to Manager Williams at the Oval, Wednesday at 4 o'clock. Come prepared for scrimmaging.

1911 Relay Team:—Meets at Union to elect captain, Saturday 1.00 P. M. Members of last year's team and subs eligible to vote.



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