

of the building committee turned the new building over to the trustees with a short and forcible address which we regret we are prevented from publishing by lack of space. Dr. Atherton, in the absence of Col. Francis Jordan, president of the Board of Trustees accepted the building. Governor Pattison followed with an eloquent speech on "The State and Higher Education." He praised in the highest terms the work of the college and spoke at length of the history of education in Pennsylvania. Next came Gen. Francis A. Walker, president of the Mass. Institute of Technology, who delivered a highly interesting and able address on "The Benefits of Scientific and Technical Education." Hon. John W. Noble's able and forcible discourse on "Education in its Relations to our Government" completed the program of the afternoon. From 4 to 6 o'clock the different departments were thrown open for inspection.

#### DESCRIPTION OF THE ENGINEERING BUILDING.

The new engineering building is prominently located near the south west entrance to the campus, a short distance east of the railroad station, and faces on one side the college avenue and on the other the main street of the village. It is built of red pressed brick with brown stone trimmings. Its massive, substantial appearance indicates that is well adapted to its uses, which is the first requirement in good design for any purpose. Its only pretention to ornamentation is the use of brown sandstone to accentuate certain features and the finials and crockets of terra cotta. The most striking feature of the front is the great stone arched entrance, supported on short cylindrical columns on either side and extended above into a projection from the rooms of the different floors. The building is three stories high, with basement under the whole, having, in the rear a wing of one story and attic. It faces the roadway a total length of 266 feet and extends 208 feet to the rear, making a total of 50,824 square feet or about one and one-fifth acres. Inside it, one may tread over two and one-third acres of floor space,

and pass through 57 rooms. Passing up the broad stone steps and under the massive stone arch, one enters the main hallway from which stairways lead to the basement and upper floors. By descending the left hand stairway in the basement, one reaches the hydraulic laboratory which will be thoroughly equipped with apparatus for experiments in weir work, gauging the flow of streams, and work on injectors and calorimeters. In the next room stands a 150 horse power triple compound engine so constructed as to run in all different ways, simple, compound, etc. It will furnish practical work for the students. At one side are the testing machines for strength of different materials and three engines of different types for student practice. In an adjoining room, all kinds of lubricant, combustion and cement testing will be carried on. The next room toward the north is occupied by the ventilating apparatus, which changes the air in each room every ten minutes, thus making it possible to have perfect ventilation at any temperature. The steam coils are supplied from the exhaust of the many engines throughout the basement, making the heating very economical. The farthest room, built without means of natural light, is used for testing the different instruments used in Civil Engineering.

Returning to the stairway at the south end, the room beyond is the dynamo room. Here are the dynamos which furnish the 1000 incandescent lights to the different buildings and the campus. The dynamos are turned by two engines, all being interchangeable so that in case of accident to one, the light can be supplied by another.

On the right is the boiler room, 45x90 feet, in which are located 6 boilers of 90 horsepower each. Beyond the engine room, is the coal room, supplied directly from the cars which the Bellefonte Central road runs overhead into the building.

The entire basement is laid with granolithic pavement, under which the heat ducts pass to the flues in the wall.

On the first floor of the main building are the