

facilities which the student has hitherto had to seek elsewhere, and he will find at home an institution which, in each and all the departments of Civil Engineering, Mining Engineering, Mechanical Engineering, Electrical Engineering and Practical Chemistry, will rank, in point of size and equipment, with the foremost of the kind in Europe or America.

In the autumn of 1889 the public received the news of the late Mr. Workman's bequest of \$120,000, to found a department of Mechanical Engineering, and to provide the necessary workshops. The stimulus given by this announcement influenced many of our citizens, who are directly or indirectly connected with the industrial arts and trades, still further, to aid in extending the work of the Faculty. Numerous subscriptions, an interim list of which is appended, have been received, amounting approximately to upwards of \$25,000.

Within the last month another benefactor has come forward, and in addition to other noble gifts, Mr. McDonald has signified his wish to erect a technical building, containing thermodynamic, hydraulic and electrical laboratories, for testing the strength of materials; museum, library, lecture rooms and drawing rooms.

Work on the buildings is to be proceeded with at once, and it is expected that the workshops will be available during the coming winter. The students will then have the opportunity of assisting in the installation of the machinery and the adjustment of the shafting.

The workshops are to be a three-story building, covering an area of about 9,000 square feet. On the ground floor is to be the machine shop, containing lathes, drills, planer, milling machinery, etc., a special room being set apart for emery grinding. The first and second floors are to be devoted to wood-working, turning and pattern-making, and are to be furnished with speed-lathes, band and circular saws, etc., etc. At one end of the machine shop are the foundry and smithy, with cupola, furnaces, forges, etc. It is hoped also to add a laboratory equipped with stamps and other appliances for the crushing, dressing and amalgamation of ores, better provision for the assaying of which will probably soon be provided in connection with the chemical laboratory.

The whole of the machinery in the workshops will be driven by a compound engine, presented by Messrs. J. Laurie & Bro.

The time spent in the workshops will be from 400 to 600 hours, and the student will pass regularly from bench work to turning, pattern-making, forging, foundry work, and will finally enter the machine shop. The objects of this course are to