

The department of architecture has recently been established, and is provided with a good collection of photographs and drawings. A large number of casts, models, and plates will be required, however, to complete the equipment.

The oldest laboratory in the school is that in the department of analytical and applied chemistry. It is well equipped for general work in qualitative and quantitative analysis; also for the quantitative analysis of food, air, water, fuels, and illuminating gas. Special apparatus is now urgently needed for the analysis of iron, steel, and other materials of construction, to supplement the testing work of the engineering laboratory.

The important department of mineralogy, assaying, and mining has at present a very meagre laboratory equipment. In view of the interest which is now being taken in Canadian mining, it is to be hoped that this state of affairs will be immediately improved, and that the School of Practical Science may be enabled during the next session to offer to those who may desire it a complete course of instruction in mining engineering and metallurgy.

In sanitary engineering we have at present no special laboratory. Our hydraulic plant can be utilized largely in connection with this department, but in addition a collection of models is very necessary for purposes of illustration.

As cities increase and population grows denser, sanitary problems become more complicated, and have to be dealt with by communities and governments instead of depending on individual action. As a consequence, sanitary engineering is becoming a most important branch of the profession, and a prominent position should be assigned to it in the curriculum of a technical school.

The rapid development of electrical lighting is bringing into prominence the question of the measurement of the illuminating power of electric lights. Special difficulties surround this problem, and it is desirable that our electrical laboratory should be furnished with the means for making such investigations.

It would greatly facilitate the work of the school in all departments to have means for making photographic lantern slides. Ordinary charts and maps soon grow out of date, and take up a large amount of room. A photographic outfit would give the means of making lantern slides of all the latest illustrations of machinery and construction that are published in engineering, manufacturing, and architectural journals, and of exhibiting them to large classes.

Another pressing want is a good technical library. If it were not for our periodicals, we should have no library at all; and while the Toronto

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