

samples of filter sands were investigated during the construction of the latest extension of the filtration plant of the City of Montreal, and many samples of rock ballast have been tested for the Canadian Pacific Railway Company.

Numerous research projects of practical value could be carried out if someone, such as a graduate student, were available to devote the necessary time to them. Up to the present, however, no graduate students have specialized in such work.

Some additional space was made available in the Strength of Materials laboratory by the re-arrangement of the Hydraulics laboratory, mentioned above, and this has eliminated unsatisfactory congestion. New equipment acquired includes a set of Johanssen standard dimension blocks, and an Amsler box for the calibration of testing machines up to 100,000 lbs. capacity, both in tension and compression. This standard calibrating device has been most useful not only in our own laboratory, but in the calibration of testing machines in industrial plants in Montreal, this service being rendered at a reasonable charge as a part of the commercial work done in our Testing laboratory. A set of Hugenberger extensometers, and a complete equipment for photo-elastic measurements of stress, have been donated recently by Mr. C. M. Morssen, Honorary Research Fellow in the Department. No new major equipment has been added with the exception of that donated by the Imperial Munitions Board at the end of the war, but existing testing machines have been maintained in a proper state of efficiency by repair and renewal of parts.