

of the representatives of the organization making the test, the equipment being operated under our supervision. In this way we render very useful service to the profession, in solving special problems which arise and in aiding new development. Reasonable charges are made through the Testing Fund for such work.

Among recent investigations supervised by members of the staff, the following may be mentioned:-

Tests on Pin Friction.	Quebec Bridge.	Dean MacKay and Professor Brown.
Steel Beams Haunched with Concrete.	Dominion Bridge Company.	Dean MacKay.
Behavior of Ice under Pressure.	St. Lawrence Waterways.	Professor Brown.
Tension Splices for Timber.	Highway Bridge Construction.	Professor Jamieson.

The designers of the Back River Power development made use of the facilities of our Hydraulic laboratory in making an elaborate series of tests on models in connection with the design of the hydraulic features of the power-house, where unusual problems arose owing to the seasonal fluctuation of river levels. A small experimental model of the hydraulic turbines used in this development was built specially for these tests, and was donated to the laboratory by the Montreal Island Power Co. on completion of their work.