

22. On the energy required to produce ions in different gases, Prof. E. Rutherford.
23. Investigations on radioactive substances, Prof. E. Rutherford.
24. A new method of determining the distribution of velocity of fluids in pipes, Dr. H. T. Barnes.

MACDONALD CHEMISTRY AND MINING BUILDING.

Although the Chemistry and Mining Building has no Committee which reports directly to Corporation, it may be of interest to append the following Report by the Director, Dr. Harrington:—

During the past year the facilities of the Macdonald Chemistry and Mining Building have been taken advantage of by an increasing number of students from all parts of the Dominion.

Hitherto the staff in the Chemical Department has been altogether inadequate, but the liberal endowment provided by Sir William Macdonald has rendered it possible to make important changes in and additions to the teaching body.

In the Chemical Department important additions have been made, the equipment, including a Landolt-Lippert Polariscopes, four additional Resistance Boxes, twenty additional Storage Cells, six Sartorius Balances, a Kelvin Galvanometer and three Rowland d'Arsonval Galvanometers, an Electro-dynamometer, five Kohlrausch's Conductivity apparatus, eight Capillary Electrometers, one Pfeffer's Osmotic Pressure Apparatus, two Electric and two Gas Furnaces, etc.

In the Department of Mining and Metallurgy, important additions to the equipment have also been made, including a Wetherill Separator, a series of about a dozen glass experimental classifiers, a four-compartment pointed Box Separator, a Ball Mill, a Gates Sample Grinder, an Amalgamation Barrel. In the Milling Room additional Elevators, Conveyors and accessory apparatus have also been installed, greatly increasing the efficiency of the plant.

Several donations to the Chemical Museum have been received, the most important being a fine series of Aniline Colours presented by the "Société Anonyme des Matières Colorantes de St. Denis," Paris, through Messrs. W. T. Benson & Co., of this city. A number of other valuable donations have also been promised and are expected to arrive soon.

At the close of last session, a summer class in Practical Chemistry was instituted and was attended by twelve students, most of whom worked zealously and with good results. The class was in charge of Dr. Henderson and Mr. Scott Hutchinson.

(Signed) B. J. HARRINGTON.