

II. THE MUSEUM OF NATURAL HISTORY.

1. ZOOLOGY. In this department the Museum contains a general collection of type specimens, illustrating the Orders and characteristic Genera of the Animal Kingdom, the whole arranged and labelled in such a manner as to correspond with the College course on the subject. There are also the following special collections:—

The Carpenter Collection of Shells, being the general collection of Dr. Philip P. Carpenter, presented by him to the University, and in process of arrangement in a separate room.

The Carpenter Collection of Mazatlan Shells.

The Couper Collection of 2,400 Canadian Insects.

Collections of Canadian Fresh-water and Land Shells.

2. BOTANY. The Herbarium consists of the Collection of the late Dr. Holmes, of Montreal, presented by him to the University; and with the additions recently made to it, affording a nearly complete representation of the Flora of Canada. There are also collections of European, Arctic and Alpine Plants, and of specimens of Woods, Fungi, &c.

3. GEOLOGY AND MINERALOGY.—The general collection consists of a series of the characteristic Fossils of all the great geological periods, with additional suites of specimens, illustrating in greater detail the formations represented in Canada. There is also an extensive collection of Rock specimens, and collections are being formed representing the principal Mineral Regions of Canada.

The Mineralogical Cabinet consists principally of the "Holmes Collection," containing about 2,000 specimens of Canadian and Foreign Minerals. A large portion of these are displayed in glass cases for the use of students, under the arrangement of Dana's Manual of Mineralogy.

All of the above Collections are used to illustrate the lectures, or are open to the inspection of students, who are also entitled to access to the large and valuable collections of the Natural History Society of Montreal.

III. PHILOSOPHICAL APPARATUS.

The value of the Apparatus is above \$4000. Of this more than two thousand dollars' worth has been lately added by means of a personal subscription amongst some of the Governors. The collection is now very valuable for purposes of illustration in the departments of Mathematical and Experimental Physics. Besides instruments to illustrate Mechanics, [Statics and Dynamics] and Optical instruments, such as Microscopes, a Telescope, Sextant, &c., there is a good collection for Hydrostatics and [Statical and Dynamical] including Electro-magnetism, Magneto-electricity, Electricity magnetism, Thermo-electricity, the Measurement of Electric Resistance, &c. The collection for Light, besides apparatus illustrative of the common phenomena of optics, includes the best instruments for exhibiting on a large scale with the aid of the electric light the phenomena of Interference, Diffraction, Polarization and Double Refraction. There is a good collection for Sound.

IV. CHEMICAL LABORATORY.

The Laboratory is furnished with the Apparatus, Specimens and Chemical Reagents necessary to illustrate the class-lectures in Chemistry; and is also fitted up with all the necessary appliances for the work of a class in Practical Chemistry and for Chemical Analysis.

V. METEOROLOGICAL AND MAGNETIC OBSERVATORY.

The Basement of the Building is devoted entirely to the observations on Terrestrial Magnetism.

The Ground Story and Leads are the portion of the Building devoted to Meteorological observations.

The Transit tower is for the purpose of giving time to the City, and to the Ships in the Harbor, and is connected by Electric Telegraph with a "Time Ball" at the wharf. Connection by Electric Telegraph having also been established between the