

*1841, 1842* COALS.—These are, as before mentioned, treated in another part of this paper, but, in addition to the large masses, some small specimens of various kinds shewn in the cabinet, are well worth the attention of mineralogists; of these are semi-bitumenous Coal in remarkable association with a sort of ankerite, and lignite with copper and lead ores. Oil shales and oil coals are exhibited, and the oil produced from one of these is also shewn in the crude and refined state. One of the oil-coals shewn, yielded from picked samples, in Boston, 199 gallons of oil to the ton.

BITUMEN.—A very interesting specimen shews Bitumen not only disseminated in limestone, but occurring in perfectly globular masses in crystals of calcite. This was discovered by G. W. Barnes, Esq.

QUARTZ AND ALLIED MINERALS.—Many beautiful varieties of these minerals are shewn. Amethysts, Smoky Quartz, Jasper, Agate, Chalcedony are met with in considerable quantities, chiefly in the Trap of the Bay of Fundy; the moss agates in the Webster collection are fair representatives of such as are quite abundant in certain localities. Carnelian is shewn in its red form. Immense quantities of Jasper are said to exist in some places. Wood opal is not uncommon, and Siliceous Sinter of which fine specimens are shewn, is very abundant in the locality from which these were taken. The Amethysts are not of large size, nor are they deep in color. Smoky Quartz is found in very large transparent crystals: one specimen is shewn curiously corroded as it were by Chlorite.

ZEOLITES AND ALLIED MINERALS.—The trap region of the Bay of Fundy and Basin of Mines furnishes a most abundant supply of these minerals which are well represented. The attention of mineralogists may be drawn to the fine specimens shewn by Mrs. Webster, which include all the best known species, of which may be especially noted fine series of specimens shewing varieties of Stilbite, of Apophyllite, and of Heulandite. In the general cabinet are, among others, most beautiful groups of Analcime and Natrolite, Chabazite in fine crystals and interesting associations, and in its Nova Scotian variety of deep red crystals called Acadiolite, of which a remarkably fine specimen is shewn. Here also are some species of rare occurrence, as Faröelite and Gyrolite, and some not as yet certainly found out of this region, as Centrallsite and its associates, also Mordenite, and Wichtyne, a mineral hitherto found only in Finland, all of which I have made known within a few years as occurring in this Province.

OTHER MINERALS.—Among these may be mentioned very fine crystals of Barytes by the side of its matrix, curious forms of Calcite, for example, the nail-head crystals heaped upon Pyrolusite, and Pickeringite or Magnesia-Alum in which, as before said, are small quantities of Nickel and Cobalt, which metals I found constantly present; the mineral occurs in a slate rock 60 feet thick. There are also Glauber Salt in crystals containing, in one specimen, a perfect crystal of Selenite, in another, the borate Cryptomorphite before described as occurring in Gypsum, Ankerite which is in part the vein stone of the Londonderry Iron Ore, and a beautiful variety of soft slate, showing various concentrically arranged bands of different colors, which is easily fashioned with a knife, and is said to exist in abundance: and several other specimens, named in the Catalogue, which will be found interesting on examination, and instructive as to the Mineralogy of Nova Scotia.