

brown colour, with thin veins of sand through it, and occasional pieces of structureless coal; but for these marks it might be taken for a piece of wood newly dug from a peat-moss. On detaching small chips with the point of a knife, and placing them under the microscope, I have been fortunate in finding some small pieces with a cellular structure showing areolation; these are semitransparent, of a light brown colour, probably from the presence of resinous matter. The trunk, of which the specimen is a part, was 30 feet in length, with a diameter of about 18 inches, and was got in sandstone forming the roof of slaty-hand ironstone, parish of Shotts, Lanarkshire.

III. *List of Fossils obtained from the Bathgate Limestone.* By JAMES LINN, The Schoolhouse, Livingstone.

The part of the Bathgate limestone which has been most extensively worked of late is at the north end of the range of workings called Petershill Quarries, and the upper 40 feet of the limestone. A great variety of corals and shells, and at least three species of palatal teeth of fish, occur in it. Besides many others, I obtained specimens of the following:—*Lithodendron junceum*, *Lithostrotion basaltiforme* (?), *Serpula parallela*, *Productus aculeatus*, *Productus giganteus*, *Productus scabriculus*, *Pinna flabelliformis*, *Pinna spatula*, *Cardiomorpha orbicularis*, *Edmondia sulcata*, *Dentalium ingens*, *Euomphalus Dionysii*, *Euomphalus pentangulatus*, *Euomphalus anguis*, *Naticopsis dubia*, *Natica elongata*, *Pleurotomaria Yvanii*, *Cochliodus magnus*, *Petalodus Hastingsiæ*.

IV. *On the Discovery of Spirorbis carbonarius in the Limestone of Burdiehouse, and of an Estheria in Camstone Quarry, Arthur's Seat.* By C. W. PEACH, A.L.S., Associate.

When with the members of the Edinburgh Naturalists' Field Club at Burdiehouse, on the 16th of April last, I found amongst the limestone taken from that famed quarry a stone containing specimens of *Spirorbis carbonarius* attached to a narrow ribbon-like plant, and on the same stone a portion of a very beautiful *Lepidodendron*, which I believe to be undescribed: I reserve more about it until better specimens turn up. My friend, Mr David Grieve, F.S.A. Scot., of Leith, has since shown me a fine slab of limestone, also from Burdiehouse, covered with the same *Spirorbis*, and I have during the summer found it again two or three times thus, showing it not to be very rare there.

On referring to the lists of carboniferous fossils in "The Geology of the Neighbourhood of Edinburgh," by A. Geikie, Esq., director of the Geological Survey of Scotland, I find this *Spirorbis* noted as found at Clubbiedean reservoir, and at Inchkeith, but