time. The famous bone-bed of the Upper Silurian system, with its well-marked ichthyolitic remains, occurs in the Upper Ludlow Rock, — the deposit immediately over head. We find it shelved high, if I may so speak, in the first story of the system, reckoning from the roof downwards; the calcareous deposit in which this hill-side quarry has been hollowed forms a second story; the Lower Ludlow Rock a third; and in yet a fourth, the Wenlock Limestone: just one remove over the Lower Silurians, — for the Wenlock Shale constitutes the base story of the upper division, - there have been found the remains of a fish, or rather minute portions of the remains of a fish, the most ancient yet known to the geologist. "Take the Lower Silurians all over the globe," says Sir Roderick Murchison, in a note to the writer of these chapters, which bears date no further back than last July, "and they have never yet offered the trace of a fish." It is to be regretted that the ichthyolite of the Wenlock Limestone - the first-born of the vertebrata whose birth and death seem entered in the geologic register - has not been made the subject of a careful memoir, illustrated by a good engraving. One is naturally desirous to know all that can be known regarding the first entrance in the drama of existence of a new class in creation, and to have the place and date which the entry bears in the record fairly estab-The evidence, however, though not yet made patent lished. to the geological brotherhood, seems to be solid. It has at least satisfied a writer in the Edinburgh Review of last year, generally recognized as one of the master-geologists of the age. "We have seen," says Mr. Sedgwick, the understood author of the article, "characteristic portions of a fish derived from the shales alternating with the Wenlock Limestone. This ichthyolite, to speak in the technical language of Agassiz, undoubtedly belongs to the Cestraciont family, of the Placoid order,—