

cago. The vertebræ of this curious whale are found strewn over the corn and cotton fields of Southern Alabama. I have seen them used for andirons in the rude fireplaces of the country, and set for steps of a stile over the front fence of the door yard.

The region underlaid by the Eocene abounds in shells and corals and fish-teeth washed out by the weather. The strata are mostly friable, and some almost incoherent. The rivers and creeks have excavated deep channels, and thus caused many fine exposures. The most celebrated river bluffs in the Alabama and Mississippi Eocene are at Claiborne, St. Stephens, and Vicksburg. All these localities abound in fossils, but especially the first and last named; and the fossils exist in a perfect state of preservation. At St. Stephens we find the "White Limestone" which incloses the remains of *Zeuglodon*. Eocene fossils are found in great abundance also, along all the creeks and ravines, and by the road sides. I congratulate the reader who resides in those regions, since his opportunities for field study are almost unequaled.

For many, the remains inclosed in the fresh-water Eocene of our western territories possess still greater interest; for they are the bones and teeth of strange and often gigantic quadrupeds which dwelt on the land. In the south-western part of Wyoming, and extending south to the Uinta mountains, is a great expanse of such strata. On the south of the Uinta mountains is another, extending south-eastward into Colorado, and south and south-westward into Central Utah. Another vast Eocene region stretches from southern Colorado into New Mexico. It is chiefly from the Eocene of Wyoming that Professor Marsh obtained the mammalian bones which, during many years back, he has described for the astonishment of the world. Some very unique material, however, was procured in Oregon. The equal work performed by Professor Cope, has also been based partly on specimens from Wyoming, but more largely on material from New Mexico and Texas. These wide, western regions pastured herds of herbivores in the early Tertiary time, as they have