

Mansfeld.* In the plains of the Mississippi, strata referable to this group are said to occur between the Alleghany mountains. But I must refer you to the authors already named (page 186) for farther information on this subject, and hasten to notice some of the most interesting localities and organic remains of this formation.

20. CHELTENHAM WATERS.—The town of Cheltenham is built on the lias, beneath which, but at a very great depth, lies the red marl, the grand depository of the rock-salt and brine-springs of England. The celebrated mineral waters of Cheltenham flow up through the lias, but have their origin in the red marl upon which it rests; from this bed they derive their saliferous ingredients, and undergo various modifications in their passage through the lias. From the analyses of these waters, it appears “that their principal constituents are the chloride of sodium (muriate of soda) or sea-salt, and the sulphates of soda and magnesia. Sulphate of lime, oxide of iron, and chloride of magnesium, are present in some wells only, and in much smaller quantities. Besides these ingredients, *iodine* and *bromine* have been detected by Dr. Daubeny, who was desirous of ascertaining whether these two active principles, which the French chemists had recently

* Review of the Geology of Massachusetts, by Professor Hitchcock, of Amherst College. This work is alike honourable to the eminent author, and the enlightened government by whose sanction it was undertaken.