

" clay or sandstone. But most frequently in this region, the
 " melaphyres present themselves in the form of beds, which are of
 " very variable dimensions, (often only five to ten feet, sometimes
 " two hundred feet thick,) and lie, for the most part, evenly
 " inserted between the strata of the Carboniferous system. Some
 " of these can be traced for a distance of two miles. Besides
 " these a melaphyre layer appears in this region, extending over
 " many square miles. It is superimposed upon the upper strata
 " of the Carboniferous system, and upon it rest the Conglomerates,
 " sandstones and slate-clays of the Rothliegende. This great
 " covering of melaphyre is at its edges accompanied by melaphyre-
 " tuffs, which are in many places developed as melaphyre-amygda-
 " loids. In very few instances only has it been observed that
 " these melaphyres have exerted altering influences upon the side-
 " rock. Within the limits of the Rothliegende melaphyres are very
 " frequent. According to Naumann the melaphyre of Ilfeld in
 " the Hartz, must be regarded as a thick layer bedded into the
 " Rothliegende. It nevertheless in places lies immediately over
 " the Carboniferous system, on account of its extending beyond
 " the edges of the lower strata of the Rothliegende. Naumann
 " also mentions a mass of melaphyre which in Tyrathal covers the
 " junction of the Greywacke with the Rothliegende, and in its
 " further extension overlies also the latter formation. The
 " melaphyre-amygdaloid of Planitz, near Zwickau in Saxony,
 " forms also a covering regularly inserted into the Rothliegende,
 " above its inferior strata. On the western declivity of the
 " Oberhohndorfer Hill, near Zwickau, the melaphyre which here
 " contains numerous green-earth and calcspar amygdules, shews an
 " interesting intercalation with the brownish-red slate-clays of the
 " Rothliegende, irregular lumps and patches of which being as it
 " were kneaded into the mass of the melaphyre. The melaphyric
 " rock of the Johann-Friedrich and Zabenstadter Adit, in Mansfeld,
 " is evenly interstratified in the Rothliegende. G. Leonhard
 " mentions that in the Rothliegende of the neighbourhood of
 " Darmstadt, at Götzenhain and Urherach, the melaphyre forms
 " distinct outbursts of considerable size in the form of domes
 " (*Kuppen*,) which consist in the centre of solid melaphyre, and
 " towards the periphery of amygdaloidal rocks, and shews in
 " places both flagstone-like and columnar separation. In Silesia
 " the melaphyres appear in two places: in the country between
 " Læwenberg and Læhn, where they, according to the investi-