or between the sea and some internal volcaus, whence this substance is ejected.

e vicinity of the Caspian, the Bakoo g have yielded large quantities of oil, and have furnished fifteen hundred barrels a and throughout this region this material, the name of Naphtha, is very generally for its light.

Rangoon, in Burmah, petroleum has been ned for many years, and at this time there er five hundred wells, which annually afford bundred thousand hogsheads. The oil ocna stratum of blue clay; wells about sixty pare dug, into which the petroleum cozes sometimes used in its natural state, but frequently it is first purified by distillation team. The raw material is also mixed with and used as fuel.

arope there are a few abundant springs.
of the Ionion Islands there is an oil founhich has flowed for over two thousand
and the oracular fires of encient G.eece
een attributed to similar sources. Oil
also occur in Bavaria, in the Grand
of Modena, at Neufchatel, at Clermont
vian in France, and near Amiano in Italy.
The procured from the last named locality
for lighting the city of Genoa, but elsein Europe it is not employed, to any exan illuminator.

his side of the ocean there is an enormous y of this substance. Upon the Island of d one of the West Indies, at a distance of urils of a mile from the sea, is a lake of at three miles in circumference. is the asphaltum is hard and cold, but as proach the centre the softness and the afore increase, until finally it is liquid ing. From the bubbling mass proceeds g, sulphurous odour, which is perceptible tance of ten miles. Between the banks ke and the shore of the island is an eletract of land, covered with hardened um, upon which vegetation flourishes. lanation put forward in connection with d Sea, is equally applicable in this case. others of the West Indies petroleum has lained, as well as at several places in Cen-4 South America; but it is in the portion of this continent that the treservoirs of this substance are located; ans truly wonderful that their extent ress should not have been discovered at period. For many years the Seneca collected petroleum, and, under the name -- oil, sold it as a remedy for rheumatic At numerous places in the Middle was found in salt borings, and was cola burnt by the farmers, but it was not ut, 1859, that it was obtained in noticelities. At this time oil was "struck" Greek, Venango County, Pennsylvania,

by sinking an Artesian well to the depth of seventy feet, and for many weeks a thousand gallons a day were pumned from it. The news of this discovery spread far and wide, and gave rise to an "oil fever." Thousands flocked to this vicinity in the hope of making their fortune. Before the close of 1860 there had been over a thousand wells bored, many of which were productive, but a large proportion returned nothing. adventurers have been very successful, and have made large amounts of money; bu, as in all commercial "fevers," a large number of persons have been utterly impoverished by their specu-The mere sinking a well by no means insures a bountiful sumply of oil. The petroleum is stored in fissures formed by the upheaving of the earth's crust by volcanic action; and these fissures are perpendicular rather than horizontal in tendency, as is proved by the fact that at wells but a few rods apart, the oil is "struck" at very different depths. The lowest parts of the fissures contain water, above which is oil, while in the highest portion there is a quantity of gas. therefore, the well strikes the fissure at the lowest part, the water will be forced up by the pressure of the supernatent oil, and gas. Persons ignorant of the formation sink a well at random, and perhaps strike a fissure; but obtaining nothing but water, they abandon the spot as worthless, whereas after removing the water by pumping, a large quantity of oil might be obtained.

In some localities in Ohio, as is the case in Burmah, the ground is saturated with the oil, and wells several feet in diameter are dug, into which the oil oozes. Porous limestone, containing petroleum, is found in some sections of the West, and has been subjected to distillation with profitble results.

In regard to the origin of petroleum, scientific authorities differ; but the theory most generally favoured is, that it is the product of the slow distillation, at low temperatures, of organic matter in the interior of the earth; the vapours boing condensed in the previously-mentioned fissures and the surrounding soil. The lake of Trinided and the bituminous matter of the Dead Sea may also be referred to a similar source. But for how many centuries must this operation have been going on to have effected such enormous results?

Of the many uses to which petroleum and its derivatives are applied, that of illumination is the most important; and the process of refining is extremely simple. The crude material is put into a large iron refort, connected with a coil of iron pipes, surrounded by cold water, called the condenser. Heat is applied to the retort, and from the open extremity of the condenser, a light coloured liquid of strong odour soon flows. This isnaphtha, and is very volatile and very explosive. Some refluers mix it with the burning oil, and numerous accidents have resulted from such mer-