direction as the mojor exes of the hills; and : lstof smoothings, scratchings, and transported Hitherto depudations of this kind he been attributed to water in its ordinary sulo: but it is evid at that here (and elsewhere, une cin personally testi y) to denude so vastly ad so massively, the increased mechanical powes which we ter derives from congelation are There is, too, a marked diff-rence bimen the dilapidations effected by water and the produced by ice. Water leaves all shatged and rough, confusedly scattered, and wideh devasted: ice cuts sharply through mountain ides, sows them down, as it were, with its keendged scimilar, or wearing and wasting by stoneatherings, it makes clean work in opening righty gers But an undoubted proof of glacida, ever is that blocks a e carried up-hill, conbuy to gravitation, lifted above their original sats andel ft oftentimes, as may be seen in the Welsh Pass of Llamberis, almost toopling over sked eminarces, or standing alone, like huge ize-pins, as if they had been set up by sportive mans, and needed but one Trianic bowl to hurl ien down. Water-currents would never effect and transportations upward; whole cataracts and not have moved some of those glacial wis one yard towards their present position. -Athenæum.

METEORIC STONES. - A number of the Institut samal supplies us with some recent cases of the lof these mysterious visiters. At Trenzano, 251 Bresele, in Lombardy, there fell on the 1th of November, 1856, one which weighed lib. At Fort Peter, in the territory of Nebaska. North America, a piece of "meteoric m," was found in 1858, weighing 30lb.; it was at to the Academy at St. Louis. The Muam at Austin, the capital of Texas, possesses a as weighing 320lb., composed of 89.9 of iron ad 10.1 nickel; it is an object of superstitious meration to the Indians. The same museum s a fragment of another aerolite, weighing illb, consisting of 64 parts of iron, 53 nickel, intraces of cobalt. On the first of May 1860, in was in Ohio actually a shower of acrolites, ich fell with violent detonations in the three galies of Guernsey, Harrison, and Belmont. he block weighed 103lb.; several weighed from Ta to 60th .. and the weight of the whole was simited at 700lb. But the most extraordinary these bodies is one which was found buried in 1880îl near Rogues River, in Oregon, by John 1928, a gold seeker. Its weight is not given, ubably it is still emboded in the earth; but it said to surpass in size the famous mass of meme iron discovered by Pallas in Siberia, which ighed 14,000lb. A fragment of the Oregon while sent to Boston, was found to contain per cent, of nickel combined with the iron

What is Coal ?—What is coal in its general splication, composed of? Carbon, hydrogen,

oxygen and a small portion of saline ingredients. What is a piece of word, or a pine, or a fern composed of I Carbon, hydrogen, oxygen, with water, and a small portion of salite ingredients. Thue, the transition from vegetable to coal appears to consist principally in the loss, in the former, of the water or juices which constitute the sap of the plant, and which no longer living, it requires no more. Borne down by the flood, buried under the coral reaf it simbers through ages and ages under the continually-increasing pressure, till its juices being exhaus ed, its membranes are united in ore solid moss, and the gradual process of eremacausis has connected foliage, trunk, and roots into one homogeneous b dy, undistinguishable to an ordinary observer. from its brother shale, found both above and beneath it in the mire. The point at issue between the scientific arbiters of this question raises our interest and excites our curiosity to know more upon a subject so frought with mysterious grandeur; and when the di tinction between our shales and coels, and off or formations of the carboniferous era are more clearly defined, there will still be eager inquir's with each succeeding generation, "What is coal?"-Unce a Weck.

SAGACITY OF A "COLLY" Dog.—That species of the cavine, called the steep or celly dog, is well known for i's sagacity, and the following, for which we on vouch, is perhaps without a parallel. One day last week, Mr. Shaw, Achgourish, Kincardine, Abernetly, with his favourite dog "Chance," left for the surpose of what is called "the sheep gathering"-that is, bringing them down to a converient place to be shorn They had not proceeded far, when Mr. Shaw, from indisposition, or some other cause, did not feel irclined to go up to the glen, and he told his dog to go away and bring down all the sheep, and that he would await his return. "Chance" instantly obeyed his mester's orders, went up the glen, gathered all the sheep together, and came away with them exactly in the direction of his master. We may mention that "Chance's" movements were observed from the top of Craigourie by the hill pundler. Shaw, who waited patiently the return of his faithful servant, now saw the sheep nearing him to the west of Craigourie, and at this moment observed a hare getting up amongst them, and looking very bewildered. "Chance," taking opportunity of this, left his charge for a little, and took to the chase, and after some stiff work, succeeded in catching the hare. Mr Shaw called out to the pundler to go and take the hare from the dog. "Chance," anticipating what was to follow, surveyed with suspicion the pund. ler, who was fast approaching him. Yet not liking to do battle with one with whom he was on intimate terms, instantly threw the hare over his back, as being the easiest mode of carrying. brought with him the sheep with all speed, and