[1108]

An answer to some Quaries proposed by Mr. William Molyneux, concerning Lough-Neagh: by Mr. Edward Smyth, Fellow of Trinity Colledge in Dublin.

1. Whether Lough-Neagh hath really the quality of petrifying Wood? To this I answer, that no experiment, or observation yet made, (that I can hear of) can prove the Lough has this petrifying quality; or that the water do's any way help or promote the petrification; for that two experiments made by a Gentleman of worth and good credit (whose Estate lies contiguous to the Lough, and whose curiofitie prompted him to a more diligent fearch into this matter) plainly prove the contrary. For about 19 years ago, he stuck two Holly-Stakes (a wood which all agree will soonest petrifie in this Lough) in two severall places of the Lough, near that place where the upper Band enters into it; and that part of the stake, which for so long time has been washed by the water, remains there without any alteration, or the least advance towards petrification; as for that part of the stake which is covered by the mud or earth, he has not yet looked on it, but promises to do it this Summer, taking advantage of the fall of the Lough, and that too, which report make's the weakest, and most unfit for this operation, may feem not to conclude universally of the whole Lough; yet are a reasonable cause of doubting that, which ought to be, yet never was backed by any faithfull experiment; and I therefore believe it fabulous; for that had the Lough any fuch Vertue, it would most probably be diffus'd in some measure through the whole. This is true of those Lakes whose peculiarities are related by Varenius; and this feems evident.

vident from the very nature of liquid bodies; for the parts of all liquid bodies being in a constant motion, and mixing with one another, any Vertue received in one part, must necessarily be diffus'd through the whole, at least in some degree, but the stakes in this experiment had not suffered the least alteration last Summer, though they had been almost three times seven years in the water.

2. Whether this Qualitie be equally diffus'd throughout the whole Lough, or be more strong in any particular parts thereof? Because there have been no certain experiments made upon all parts of the Lough, and much time required to make this tryall we cannot expect a speedy resolution of this Quæry; Report for the West side, and Dr. Boat (an Author for whose fidelity I youch not) in his Natural History of Ireland, tells us that as his Brother informed him, who lived in those parts, that water has especially this Virtu about those places, where the Black water discharges it self into the Lake, but confesses he never could find any person who himselfe had made the tryall, and therefore had this information from report, or some other way equally uncertain: so that there is still good reason to believe the water is wholy destitute of this petrifying qualitie.

3. What woods are petrified by the Lough? or whether only Holly. That not only Holly, but also Oak, and some other wood has been petrified about this Lough, and in the soil adjacent, I have sufficient grounds to conjecture on this account; because some Fishermen, being tenants of a gentleman from whom I had this relation, told him, they had sound buried in the mud of this Lough great trees, with all their roots and branches petrified; and some of that bigness, that they believed they could scarcely be drawn by a teem of Oxen. They broke off severall branches as big as a mans legg, and many bigger, but could not move the great trunk. If we may credit this relation, we must allow some other

woods to be petrified befide Holly, for Holly never grows to that bigness; the largest trees being scarcely by a third part so big; so that allowing for the unexactness and unfaithfullness of the Fishermens relation; we have grounds to believe this wood was other then Holly; my cheit reason for guessing it Oak is the bulk; no trees in that country, these excepted, growing to that prodigious bigness: besides there is much timber found in the mud on fand on the banks, such as Deal, &c. but no Oak, so that I believe what Oak was undermined by the water, was covered with mud, and so petrified into Stone, and of this fort might that be which the Fishermen found; for if some part of that ground which is now covered by the water, was formerly wood, as is on good grounds believed by those that live therabouts, as it is probable there was much Oak in the wood, fo it is probable there is much buried in the Lough; Deal, and other trees are found here without any alteration, but what they might fuffer in any other water.

4. Whether the wood or Holly, brought from other places, be as apt to be petrified, as what grows in the grounds adjacent to the Lough? If, as I shall make out in my answer to the last Quæry, this vertue of petrifying dos certainly, if not solely reside in the soil contiguous to this Lough, most certainly trees that imbibe some of this petrifying Vertue, or these Lapideous particles with their nourishment, as being already disposed for it, will

be more easily altered into stone.

5. What time is requisite to petrifie a piece of a determinate bigness, I heard of no experiment which can resolve this Quæry, but what report tells us of seven years is certainly a fable as to the water, I know of no body who has made tryall of the soil.

6. Whether any has seen the same body partly wood and partly Stone? I was informed by two Gentlemen of the North, that this may be frequently seen, who alledged they

[1111]

they themselves had seen the same body, wood, and stone. But the only reason for thinking so, being the diversity of colours which might well enough proceed from severall degrees of petrisication, we may probably think them deceived: for they made no experiments on that part which they reputed wood. They surther told me that part of the body which touched the surface of the water was the partition between the petrisied and unpetrified part of it; this surther consirms me, they were imposed on. This stone had been often sound one part of it rotten and petrisied, the other remaining sirm and usefull: but this it has common with other stones: whether it became rotten in the wood, or stone, may be doubted.

7. Whether the Bark has been feen petrified, as well as the Wood? The Bark is never found petrified, as I am informed by a diligent Inquirer, but often fomething rotten about the stone answerable to the Bark.

8. Whether any one has certainly made experiment of the Loughs petrifying, by putting a piece of wood therein, and there letting it ly till it was petrified? Several pieces of Holly have been put into the Lough, but none, that I ever

heard of, was ever taken out in any wife altered.

9. Whether there be any Sand-pits nigh about the Lough in which these pieces of wood (we esteem petrissed) are found? I never could hear of any such Sand-pits, nor that this petrisying Vertue was stronger in any such places; there is a greater quantity of these stones found in the adjacent ground, and when ground is newly broke, ordinarily turned up in plowing.

10. Whether the Earth, or Sand about this Lough be indued with this Qualitie? That this Virtue is certainly, if not only, in the ground or foil I judge for these reasons, that there are many stones turned up daily especially at their breaking up new ground; which we cannot in any probabilitie think were brought thither; they are often

I v found

[1112]

found at two miles distance from the Lough, seldom: further, in great numbers, and very deep in the ground; now for what use and reason they should be brought thither I can't imagine: but because there may be exceptions against this reason I shall produce another, which I believe will plainly prove this affertion, it being matter of fact. The Gentleman on whose credit I received this information, had occasion one day to survey a part of his own land, and at a small distance from the Lough, he saw a stump of a tree just digged out of the ground, which by handling of it he found petrified; his Servant that digged it up, standing by him, told him he had just rooted it out of the ground: he assured me the roots and all were stone, and altogether like those stones that are ordinarily found and go by the name of Lough-Neagh stones. This certainly proves the soil to have this petrifying Vertue, which was never yet proved of the This Gentleman was of opinion these were Lapides (vi generis, 'till this observation convinced him: and I believe the wood, which I before mentioned that was found by the Fishermen pearified, ows its petrification to the foil and not to the water. But that these stones were once wood is I think very certain, for they flew the plain vestigia of wood, they likewise burn, cleave; filings of this stone thrown in the fire emitt a fragrant smell: they cut kindly with a knife, though not so easily, as other wood: but had they none of these properties, the instance now alledged, I think, is as convincing as Demon-Atration.