(at the fame or greater depth, in a different Soil from what they had dug through) many Roots of Trees, where it is believed the furface of the old Country was before it was covered by the Sea, (as alfo at Spalding) But having given an account thereof to Mr Ralph Thoresby of Leeds in Yorkshire, a year or two ago, it you think it worth the Recording, you may have it I suppose from him when you plcase.

all will real make more

V. Part of a Letter from Mr Thoresby, F. R. S. to the Publisher, giving a further account of the Same.

VIABIDIOSTIZS

T H E Person you inquire of, is, I am fure an ingenious, obliging and good man, what you defire a transcript of, I here send you in his own words.

' Near the River Welland, that runs thro the Town of 'Spalding in Lincolnshire, at the depth of above 8 or " 10 foot, there were found Jettys, as they call them, to keep up the old Rivers Bank, and the head of a Tunnel that emptied the Land-water into the old River; and at a confiderable distance from the present River, I guess 20 or 30 yards, there were dug up (about the like depth) " feveral old Boats, which things fhew that anciently the River was either much wider than now it is, or ran in another place, or both. On the other, viz. the North Weft fide of the River, and more upwards in the Town, were digg'd up ' (at about the afore-mentioned depth) the remains of old "Tanvats or Pits, a great quantity of Ox-horms, and the ' Shoe-foles, which I told you of, and I think the very " Tanners knobs, Orc. which things fhew, that the furface of the Country lay anciently much lower than now it does, and has been raifed by the Seas throwing in its Sand ' in the Maritime parts (now most inhabited) and by the Stan Have aver Street & Vansager. Moor

• Moor or rotted Sedge in the fenny parts next the high • Country; the whole Level is about 50 miles in length, and • 30 miles over in the broadest parts. No Record (Printed • or MS) or Tradition whatfoever, (that I ever heard of) • tell us when these Mutations here discoverable hap-• pened.

"One thing further I will add, that lately at the laying" "of the present new Sluice or Goat (as they cill it) at the end of Hamorebeck, at its fall into Bofton Haven, taking up So the foundation of the old Goat, they met with the roots of Trees, many of them iffuing from their leveral Boles or Trunks, spread in the Ground, which when they had s' taken up (Roots and Earth they grew in) they met with a folid Gravelly and Stony Soil of the high Country kind, but black and discoloured by the change that had befaln it) upon which hard Earth they laid the Foundation of this it) upon which hard Earth they laid the Foundation of this hew Goat, where these Roots were dug up, was certainly E the furface of the old Country, the certain depth whereof I cannot now tell you, but that it was much deeper than that at Spalding, as the Land is there at prefent higher. -The Archimedean Screw, or Screw-like Trunk or Cylinder, 2. by which the Workmen cleared themselves of Water was The matter

The matter of fact in these Relations is indisputable, this worthy Person being an Eye-witness, whose Letter coming to hand when I was reading Mr Rays Phyfico-Theological Tract, concerning the great changes made in the Terraqueous Globe, I took it for an experimental confirmation of his Sentiments, that the great Level of the Fens running thro Holland in Lincolnshire, the life of Ely in Cambridgeshire and Marshland in Norfolk, was sometimes part of the Sea, and atterated by Earth brought down by Floods from the upper Grounds, by the great quantity of Mud there subsiding, which by degrees raifed it up. When you see or write to that Ingenious Gentleman, please to present my humble Service to himim, and acquaint him herewith : I have fometimes thought to have fent him an additional Lift of Local Words, which the before-mentioned Goat (Eboracenfibus Goit) puts me in mind of ; the form of the Shoe was much like those found with fome Urns at Kirby Thore in Westmorland, as defcrib'd in the Phil. Trans. No 158.

One thing further I will add, that lately at the laying

(1160)

VI. Observations on the Class of Sweet Tastes, made by comparing the Tastes of Sweet Plants with Monsieur L'Emery's Chymical Analysis of them, in his Treatise of Drugs, by Sir John Floyer.

DICIONE NEW SHIELE OF LIGHT

Observe that by our Taste we may discern all the Chymical Principles in Plants before their distillation, and that for want of a due observation of their Tastes, Mr L'Emery has not fully described the Chymical Principles which Plants do yield in Distillation.

All Watery Plants shew their Phlegm as well to the Taste as in Distillation; and in all dry woody Tastes, we observe the Earth, as well as we can by the Chymical Analysis.

By the Mucilage and Gummynels, or Oily Tafte, we diftinguish the Oyl of Plants, as well as by Distillation.

The Aromatical Smell shews us the volatility of the Oyl and Salt of Plants, and by the foetidness we also know that the Oyl and Salt are in a volatile state.

By the acrimony and pungency we know that there is a Volatile Salt in Plants, and by their burning tafte we find there is a Corrofive Salt in them.

by a crude rough Acidity we observe the Tartar, or effential Salt of Plants; but if the Acidity be of a Vinous fmell, we observe that its of middle state of Digestion, and