to more in the matter I mirht depend on the Canada Company not beine: backward in contributing their full share towards the suceess of the undertaking; but there the matter rested.

With respect to my remaining notes on drainage, as the object aimed at referred chiefly to the lake-shore Townships, I shall here pass over those of Sandwich and Malden, as well as those lying along Lake St. Clair, though the public lands in all of them would be much benefited thereby.

With regard to Colehester, as already observed, I proposed the main drain to be of a width and depth sufficient to be used as a canoc Canal for bringing suall supplies from tine back settlements, at times when tho roads are impassable, and to run straight north from the lake, past the west boundary of the village, into the Round Marsh, and from thence through the 2nd, 3rd, 4th, and 5 th Concessions, antil it struck upon the borders of Long Marsh, and from thevee through the 6th, 7th, and 8th Concessions, and across Roach's Marsh, until it approached the River Canard, near the Malden Road, recciving right and left a few small cross branches at the different Concession roads, and thua draining a great extent of seattered low land, in addition to the main inundated tracts of Round, Long, and Roach's Marshes. It was also proposed that another cut should in in ae from the south-east end of Roach's Marsh to Cedar Creek, with cross ditches at the division roads of the different Concessions; while a third might be made to lead from Hog Marsh (in which the River Canard takes its rise) into the branch of Cedar Creek called ISanks's Creck, so as to drain a great portion of the west half of Gosficld.

Regarding Gosfield generally my positive information is rather limited, but it is well understood that though most of it is high and dry, great licuefit would be derived from judicious drainage in many parts of it.

With respect to Mersea, which is the next Township, I learnt that there is also much wet land in it ; and that the front portion drains towards Lake Eric by numerous creeks, of which Sturgeon Creek is the principal, into the long marshy projecting tongue of low land called Point Pele; but I never had a good opportunity of thoroughly examinngg this Township, though desirous of doing so, with the view of ascertaining whether a harbour of refuge could not be established at the mouth of Sturgeon Creck.

To the cast of Mersea lies the 'Township of Romney, in which it is proposed to establish the much desired torn and harbour, and of which, therefore, it is unnecessary to take further notice here.

The next Tornship, with the exception of a small triangular portion of Tilbury, is Raleigh, the northern balf of which, from the 12th Cc:ecssion, drains north by a labyrinth of crecks into the Thames, parallel with which also there is a long marshy track at about one and a half mile distance; while the drainage of the southern portion becoming interrupted by a gravelly ridge, in snme parts not more than half a mile from Lake Eric, escapes by many springs through a sandy substratum, which fiequently produces along the undermined lofty bank of the Lake extensive land slips of a very singular and even picturesque appearance, the subsi, ence often taking place in a succession of steppes or stages, learing the trees and shrubs growing undisturbed. Here, it may be observed, the banks of the Lake are in some parts 70 and 80 feet high.

A similar character prevails in the next Township of Hawich, with the exception that the southern portion slopes towards the low marshy track north of the Roudeau, and that
remarkable projecting point of low land called Point aux Pins, while the northern surface waters search their way by a variety of outlets, into a branch of the 'Ihames called XicGregor's Creek.*

The nuthern half of the fine lounship of IIoward, which is the next, going eastward, also drains north into MeGregor's Creek, while the southern purtion slopes towards Lake Erie, and finds a vent for the greater part of its surplus waters through different branches of a creck, which, after passing Morpeth, discharges into the Lake near Antrim,-a position where anuther harbour might, perhaps, be established.

Of the remainine Township of Oxtord, [ have ascertained little, except that, like the next, it would be much improved by drainage.
'I'o the above details, all that now remains to be added, in conclasion, is, that having with all deference placed the whule question unreservedly before the Institute, in a simple nourrtiee furm, I am perfectly willing to abide by their decision as to its merits; and that I would, therefore, fuin hope that sume of our scientific members will ere lung be disposed to come to the aid of a patriotic object of great prospective importance and value. In the meantime I remain content with having once more led the way in a good cause,-willing either to support further my own humble opiniuns hereafter, if necessary, or to bow to the dicision of ketter infurmed professional men. There is, however, one cullateral subject on which I would, in concluding, wish to add a few words:-namely, that as I have on the one hand alluded to Canada's discreditableabandomment of the honor of being the originator of the Sault Ste Maric Canal, and on the other tu the many signal improvements in the navigation of the River St. Lawrence, cither already completed or in progress, exemplified in the erection of numerous lighthouses, the formation of splendid Canals, the deepening and buoying off of shallow channels, and the blasting of dangerous rocky impediments in the various rapids, I sould also fain hope that there can be no petty political obstacle in the way of a friendly eu-uperation with the State of Nichigan, by which the embarmasing " flats" or clay banks in the liver St. Clair, and a ferr of the shalluw channels through Lake St. Clair, such as the North, Nagle, and Wialpole Island channels, may be kept thoroughly open and bouycd off, and one or two powerful Steam-tugs employed for turing up sailing vessels during adverse winds and calms, and thereby leave our unrivalled chain of inland waters without a single impediment, from Lake Superior to the Occan: Nur will it be wondered that I should so pointedly advert to so desirable an international arrangement, When it is considered that more than 350 vessels are employed in the carrying trade of the upper lakes, of which about 50 are paddle steaners and propellers, and the rest selling craft of various burthen, from the stately three-master to the humble sloop, and that a committee appuinted by the $B$ iffalo board of trade to enyuire into the amount of losses sustained by owners of vessels detained on the St. Clair Flats alone during the past year, estimated the sum paid for detention, and damage incurred by collision while detained, at between $£ 80,000$ and $£ 90,000$, besides uther expensus fur lighterage, towage, \&c., swelling the total annual amount to above $£ 160,000$ !

* For a detailed notice of the Roudeau, seo the note at the foot of p .306.

