

species; the smaller figures indicate the size of the originals.*

24. INFUSORIA IN FLINT.—Among the almost endless diversity of forms in which those atoms of

* Note on the Sussex spiroolithes, by the Marquis of Northampton :—

“ I willingly comply with your desire to communicate a short note on the Sussex spiroolithes, one species of which you have been pleased to distinguish by my name. I have found these fossils in flint at Brighton, Kemp-town, Rottingdean, Lewes, Hastings, Steyning, Chichester, West Stoke, and in the Isle of Wight; and one specimen in France. I have discovered about two hundred of these minute chambered shells in flint, but only two in chalk. Some of the microscopic bodies extricated from the chalk by Mr. Lonsdale, I am inclined to think are spiroolithes, but others are *foraminifera*. I have seen, as I believe, minute nummulites in the Sussex flint. The spiroolithes which I have collected constitute four distinct species. 1. The one to which you have been pleased to give the appellation of *S. Comptoni*. 2. *Spiroolithes Lyellii*, distinguished by the horizontal chambers, one above the other, in the coiled portion. 3. *S. Stokesii*, which I name after our friend Charles Stokes, Esq.; and this name has the further advantage of pointing out the locality, West Stoke, near Chichester, from which I obtained this unique specimen, and where other spiroolithes abound. The fourth you must allow me to designate *S. Mantellii*. The distinctive characters of these species are too obvious to require detailed description. The transverse chambers in *S. Lyellii* (Tab. 55, fig. 1, and Tab. 56, fig. 3,) are a striking peculiarity of structure; in the specimen from France (Tab. 55, fig. 1), there appear indications of a siphuncle in the straight prolongation. I am inclined to believe that there are other species in my collection, but the irregularity in the fractured sections of these minute chambered shells, renders it difficult to arrive at accurate conclusions on this point.

“ *Castle Ashby, January 1, 1838.*”

“ NORTHAMPTON.”