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VII. An Account of some Oil of Sassafras crystallized, by Mr. John Maud, Chemist, F. R. S.

AVING lately met with an uncommon Phanomenon in Chemistry, surprising to many well experienced in that Art, to whom I have related it; I hope the Honourable Society will excuse the Liberty I have here taken, in presenting it before them.

A few Days ago, I observed some essential Oil of Sassafras, which had stood exposed to a frosty Night, in an open Vessel, was changed, three Parts out of four, into very beautiful transparent Crystals, three or four Inches in Length, half an Inch in Thickness,

and of an hexagonal Form.

These Crystals subsided in Water, were indissoluble in it, inflammable in the Fire, and when expos'd thereto, melted into their pristine State. Hence it is evident, that they still retain the natural Qualities of an Oil, although they appear under a different Modification of their constituent Parts. What is most remarkable herein, confifts in a Metamorpholis from a fluid to a folid Body, of such a particular Figure, and from a vellowish Liquor (not unlike Madera Wine) to a very pellucid Body, like Ice congeal'd from the most transparent Water. This seems to afford a new Instance of Crystallization, which being generally accounted for by the Particles of a Fluid, or those of any other Body, suspended by the Fluid, brought nearer by Cold, and at length coming within the Sphere of each other's Attraction, unite together into

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an immediate Contact. This Oil being one of the heaviest Oils, and even heavier than Water, is the more likely thus to unite, as its Parts are nearer together. This may be a Hint to the Curious, to discover wherein consists the Difference of Solidity and Fluidity; and likewise show much the Colour of Bodies depends on the mechanical Situation of their Parts.

See a like Crystallization from Thyme, by Dr. Neumann which he calls Campbora Thymi, No 389 and 431. of these Transactions.

VIII. An Observation of an extraordinary Damp in a Well in the Isle of Wight; communicated in a Letter from Mr. Benj. Cooke, F. R. S. to Mr. Peter Collinson, F. R. S.

Dear Sir,

AVING so fair an Opportunity, I send you an Account of the melancholy Effects of a Damp or sulphureous Vapour, which happen'd in this Island, and of which I was an Eye-witness.

In the Month of June 1733. a Farmer, in Hopes of finding a perpetual Spring of good Water, funk a Well, whose Diameter was seven to the Depth of 45 Feet (through a Soil whose Surface was a kind of brick Earth mixt with Sand, which in descending became almost wholly hard coarse yellow Sand); which Work