

PHILOSOPHICAL TRANSACTIONS.

Munday November 19. 1666.

The Contents.

An Addition to the Instances of Petrification, formerly enumerated. Articles of Inquiries concerning Mines; as, to the neighbouring Country about them; the Soyl where they are; the Signes of them; the Structure and other particulars belonging to the Mines themselves; the Nature and Circumstances of Ore; and the Reduction of Ore into Metal. Promiscuous Inquiries formerly recommended to Monsieur Heuelius, particularly about Cold; together with his own, and his Corresspondents Answer to some of them. The success of the Experiment of Transfusing the Blood of one Animal into another.

An Addition to the Instances of Petrification, enumerated in the last of these Papers.

This Instance was some while since communicated to the Royal Society by that Ingenious Gentleman Mr. Philip Packer, a worthy Member of that Body; in these words;



Y N a Bank in a Close of Mr. Purefoy, neer his house, call'd Wadley, a mile from Farrington in Berks, there grows an Elme, which hath now lost the top, and is grown hollow, containing neer a Tun of Timber. From the But of the same Tree, one of the spreading Clawes having been formerly cut off with an Axe; that part of the But, from whence the same was sever'd, being about 1½ foot above ground, and inward within the trunk

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of the Tree , hath contracted a petrified Crust , about the thickness of a *Billig*, all over the woody part within the Bark; the Marks of the Axe also remaining very conspicuous, with this petrified crust upon it. By what means it should thus happen , cannot well be conceived , in regard there is no water neer it ; the part, above the ground and out of the weather ; the Tree yet growing : unless being cut at some season, when the sap was flowing , the owing of the sap might become petrified by the Air , and the Tree grow rotten and hollow inward since that time ; which how long since, is not known.

A piece of that part cut , was presented , together with this Account , to the said *Society*, for their *Repository*.

Articles of Inquiries touching Mines.

What the Honourable *Robert Boyle* gave the Reader cause to hope for, in *Numb. II.* when he was pleased to impart those *General Heads* for a Natural History of a Country, there publish'd; He is not un-mindful to perform , by enlarging them as occasion serves, with *Particular* and *Subordinate* Inquiries. Here he gratifies the Curious with a considerable Set of Inquiries about *Mines* : which though unfinish'd, yet the *Publisher*, was instant to obtain their present Publication, to the end, that he might the more conveniently recommend them to several Forreigners of his Acquaintance ; now ready to return to their several Countries, which he understands to abound in Mines ; and from the Curious Inhabitants whereof, he expects to receive a good Account upon some at least of these Inquiries ; which also by several of them have been earnestly desired, as Instructions , to direct them , what Particulars to inquire after upon this Subject.

These Quæries are reduced by the *Author* to six Heads :

The *first*, The neighbouring Country about the Mines.

The *second*, The Soyl where the Mines are.

The *third*, The Signs of Mines.

The *fourth*, The Structure and other particulars belonging to the Mines themselves.

The *fifth*, The Nature and Circumstances of the Ore.

The *sixth*, the Reduction of the Ore into Metal.

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