

# 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 Correspodents 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 *shilling*, 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. 11.* 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.

*Quæri*