

Construing Humphry Davy

Frank James



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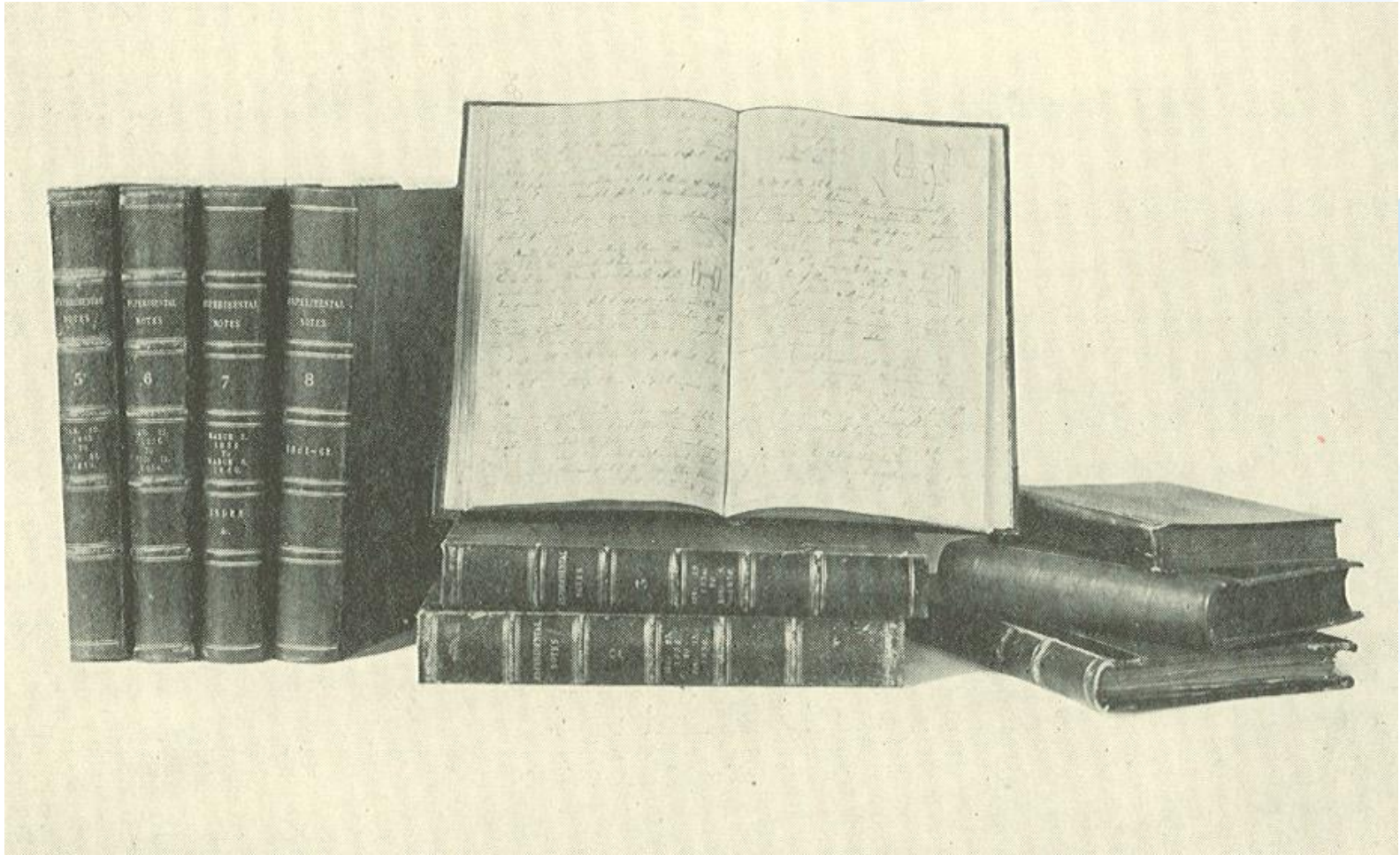




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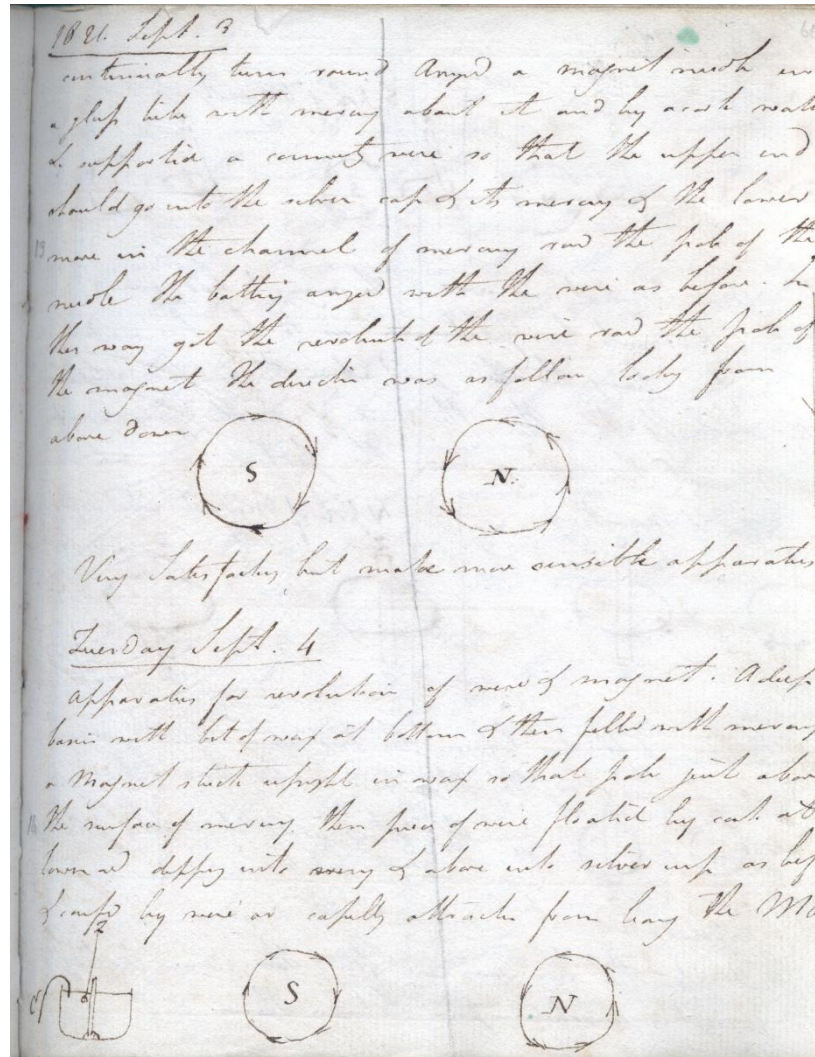
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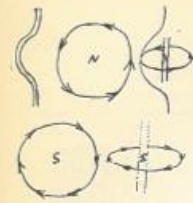
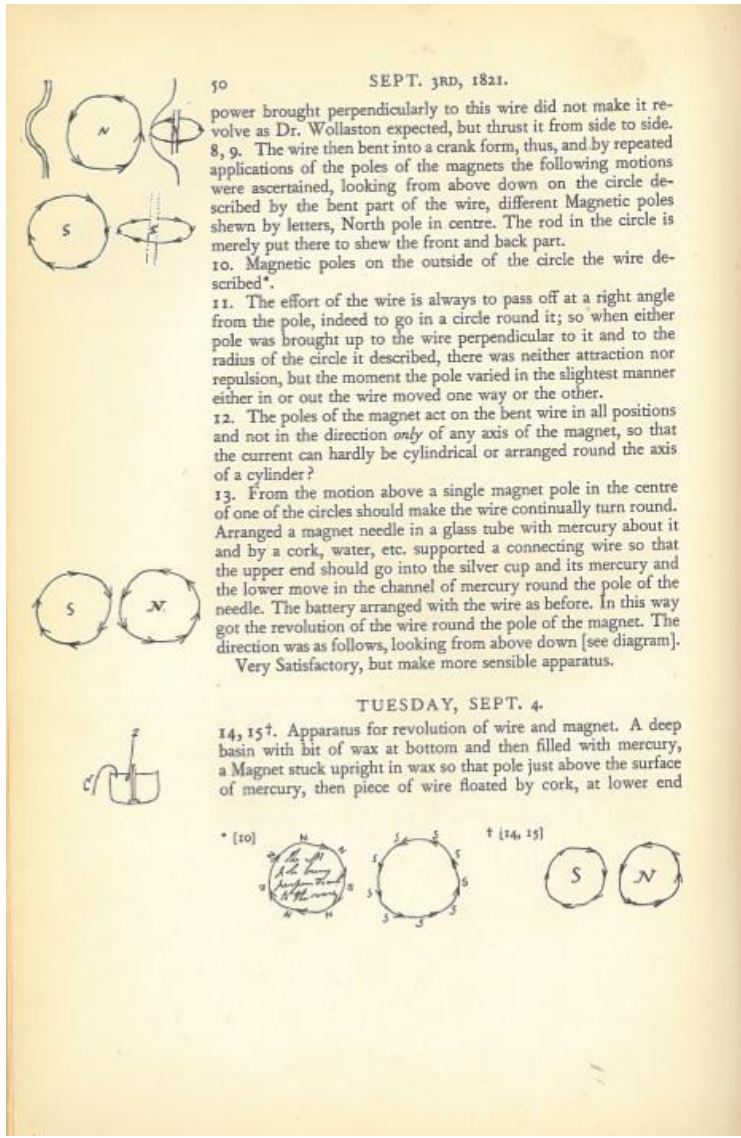
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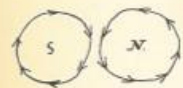


power brought perpendicularly to this wire did not make it revolve as Dr. Wollaston expected, but thrust it from side to side. 8, 9. The wire then bent into a crank form, thus, and by repeated applications of the poles of the magnets the following motions were ascertained, looking from above down on the circle described by the bent part of the wire, different Magnetic poles shewn by letters, North pole in centre. The rod in the circle is merely put there to shew the front and back part. 10. Magnetic poles on the outside of the circle the wire described*.

11. The effort of the wire is always to pass off at a right angle from the pole, indeed to go in a circle round it; so when either pole was brought up to the wire perpendicular to it and to the radius of the circle it described, there was neither attraction nor repulsion, but the moment the pole varied in the slightest manner either in or out the wire moved one way or the other.

12. The poles of the magnet act on the bent wire in all positions and not in the direction *only* of any axis of the magnet, so that the current can hardly be cylindrical or arranged round the axis of a cylinder?

13. From the motion above a single magnet pole in the centre of one of the circles should make the wire continually turn round. Arranged a magnet needle in a glass tube with mercury about it and by a cork, water, etc. supported a connecting wire so that the upper end should go into the silver cup and its mercury and the lower move in the channel of mercury round the pole of the needle. The battery arranged with the wire as before. In this way got the revolution of the wire round the pole of the magnet. The direction was as follows, looking from above down [see diagram]. Very Satisfactory, but make more sensible apparatus.

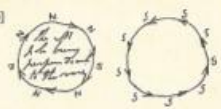


TUESDAY, SEPT. 4.

14, 15†. Apparatus for revolution of wire and magnet. A deep basin with bit of wax at bottom and then filled with mercury, a Magnet stuck upright in wax so that pole just above the surface of mercury, then piece of wire floated by cork, at lower end

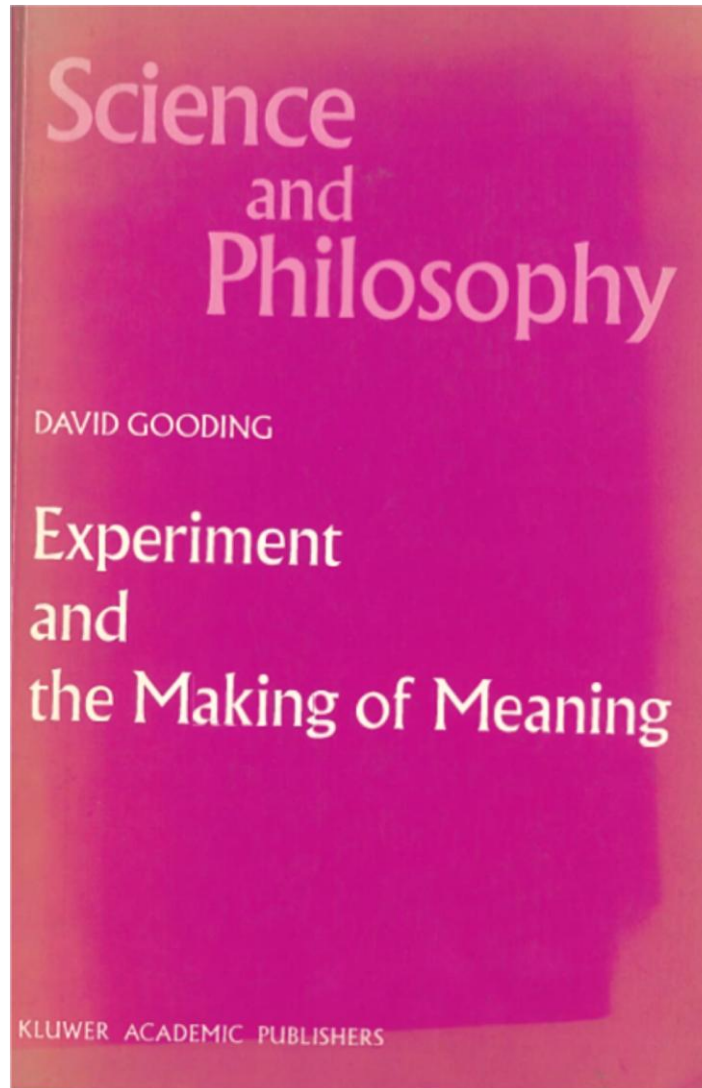


* [10]



† [14, 15]





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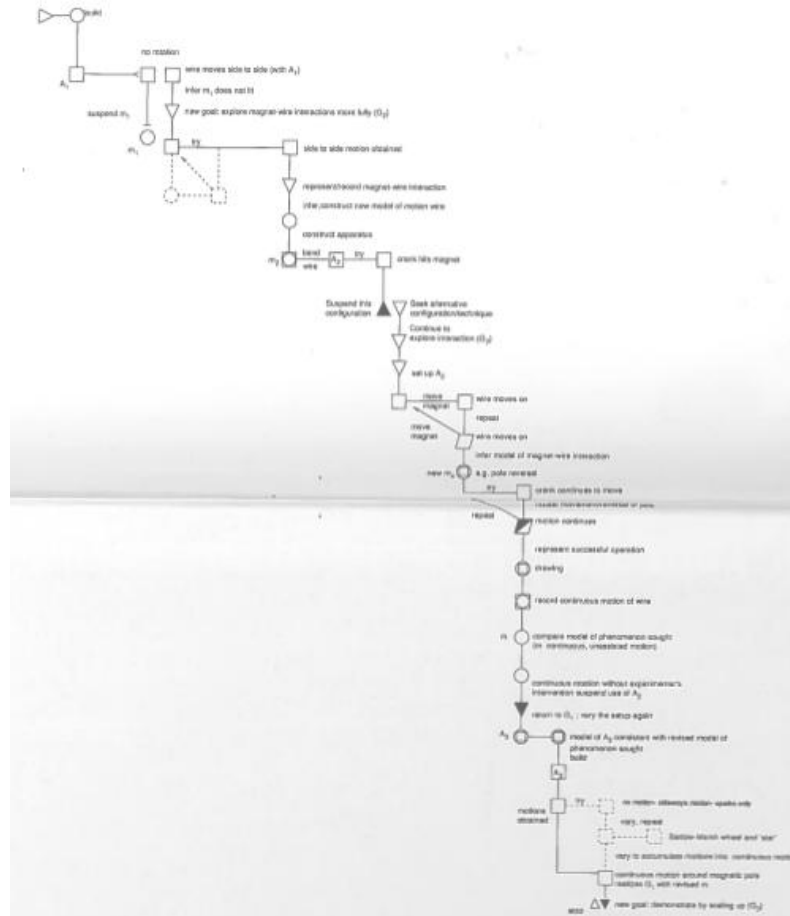
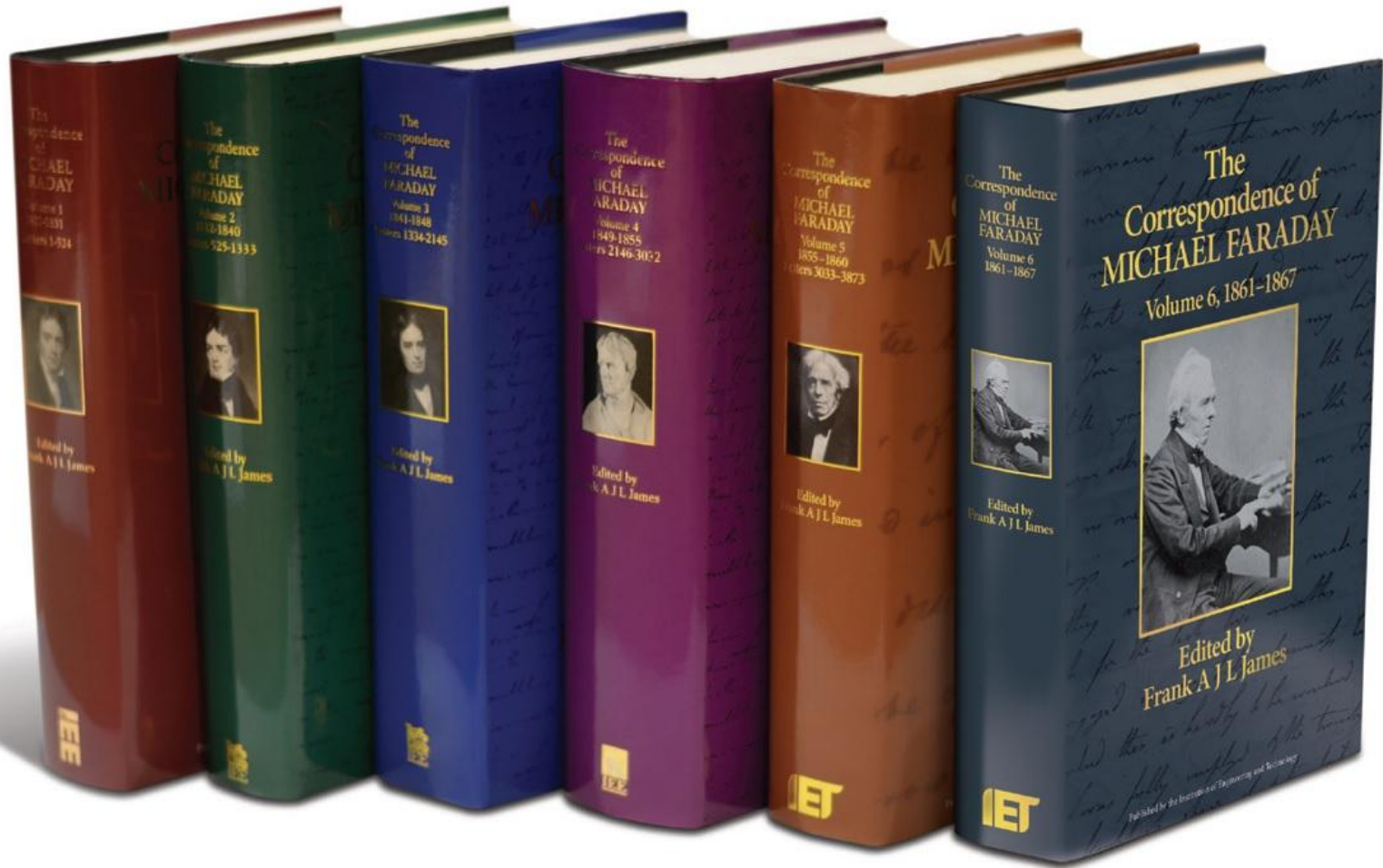


Figure 7.1. A map of the sequence of actions listed in Table 6.2, based on Faraday's laboratory notebook for 3 September 1821 (see also figures 5.1-5.4).



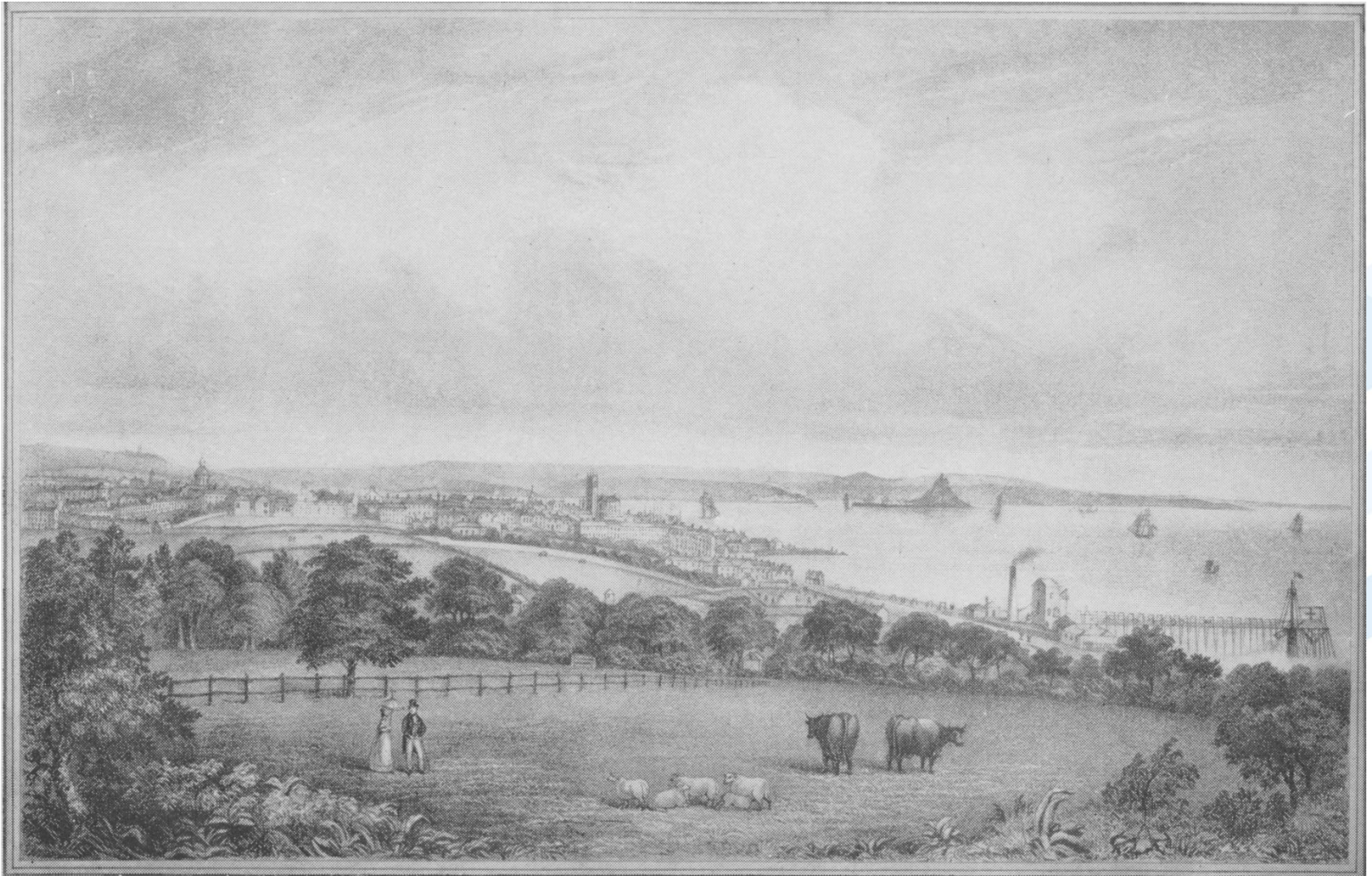


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ROYAL SOCIETY
OF CHEMISTRY

National Chemical Landmark

Sir Humphry Davy
Bt MRI PRS
(1778-1829)

Apprentice apothecary to John Bingham Borlase
in this building, 1795-1798. Progressed to the
Medical Pneumatic Institution, Bristol, 1798
and to the Royal Institution, London, 1801.
Davy established the nature of acids,
identified 9 elements and invented
the miner's safety lamp.

17 September 2015



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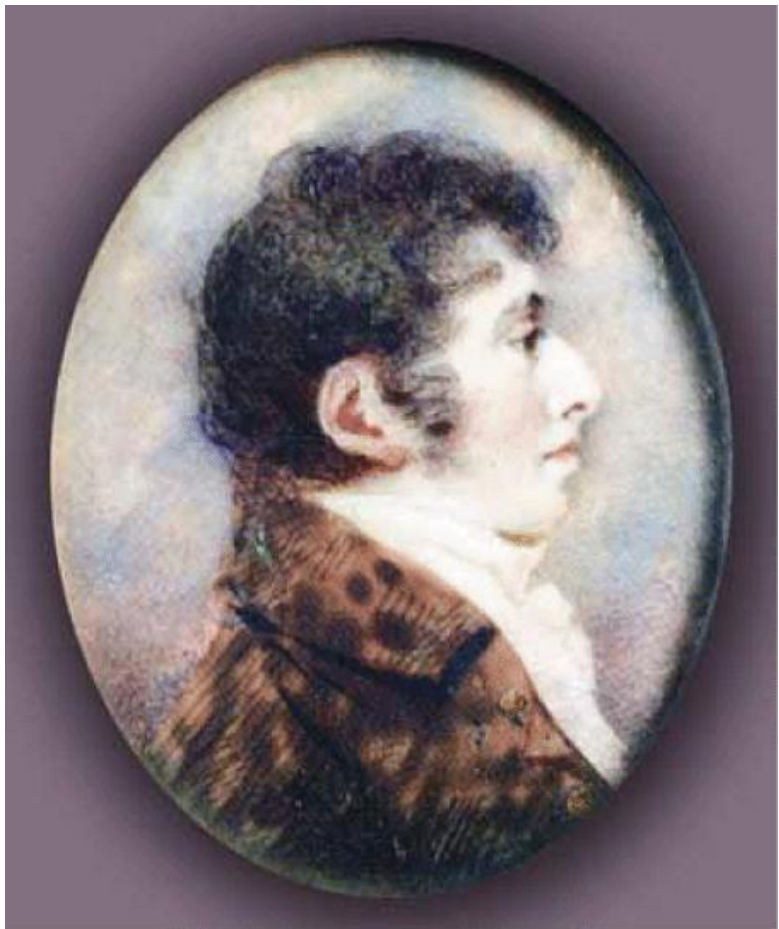


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The sober eve with purple bright
Sheds o'er the hills her tranquil light
In many a lingering ray;
The radiance trembles on the deep,
Where rises rough thy rugged steep,
Old Michael, from the sea.

Humphry Davy, 'Ode to St Michael's Mount', 1796, RI MS HD/13/H,





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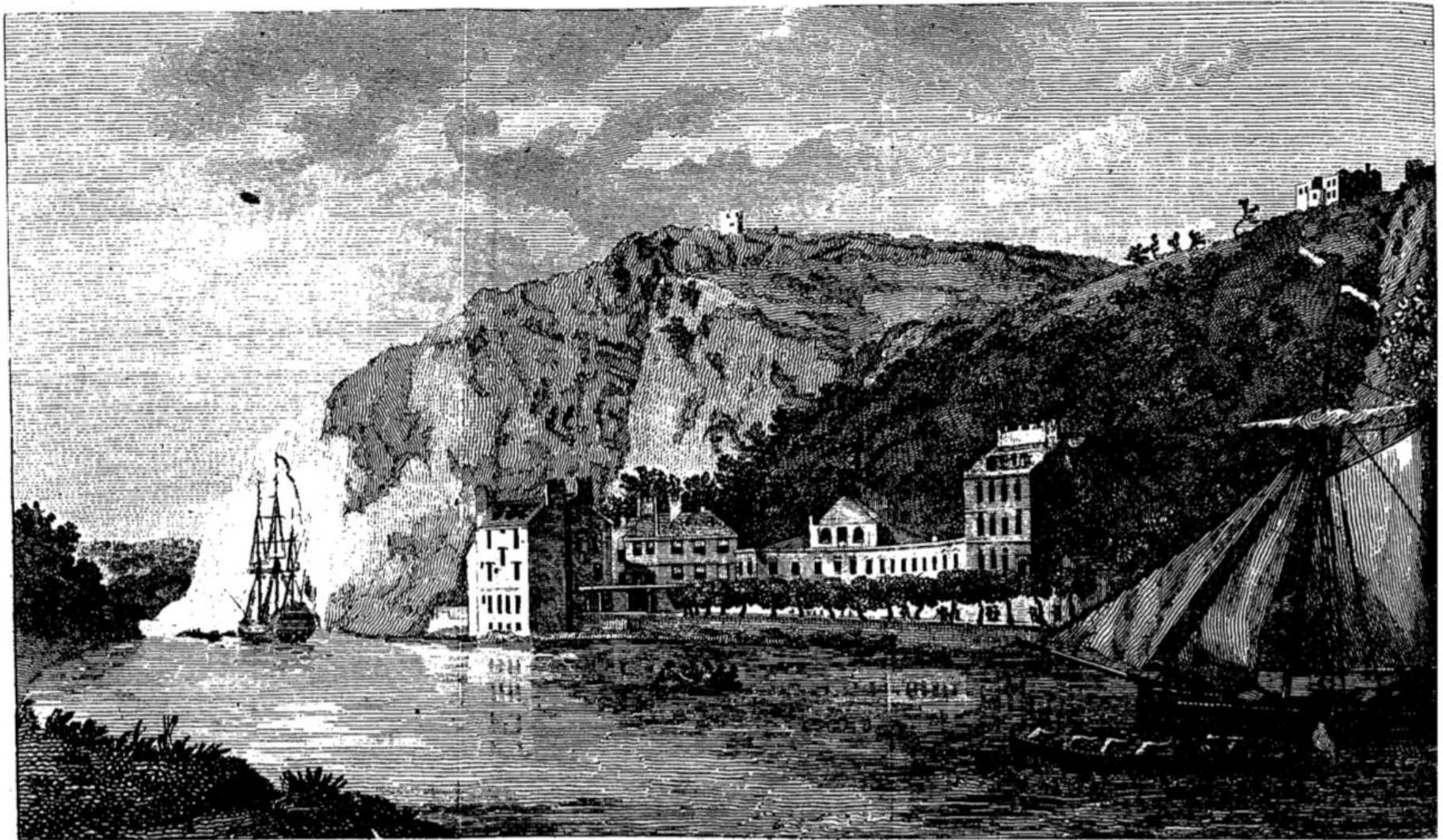
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a little fat Democrat of considerable abilities

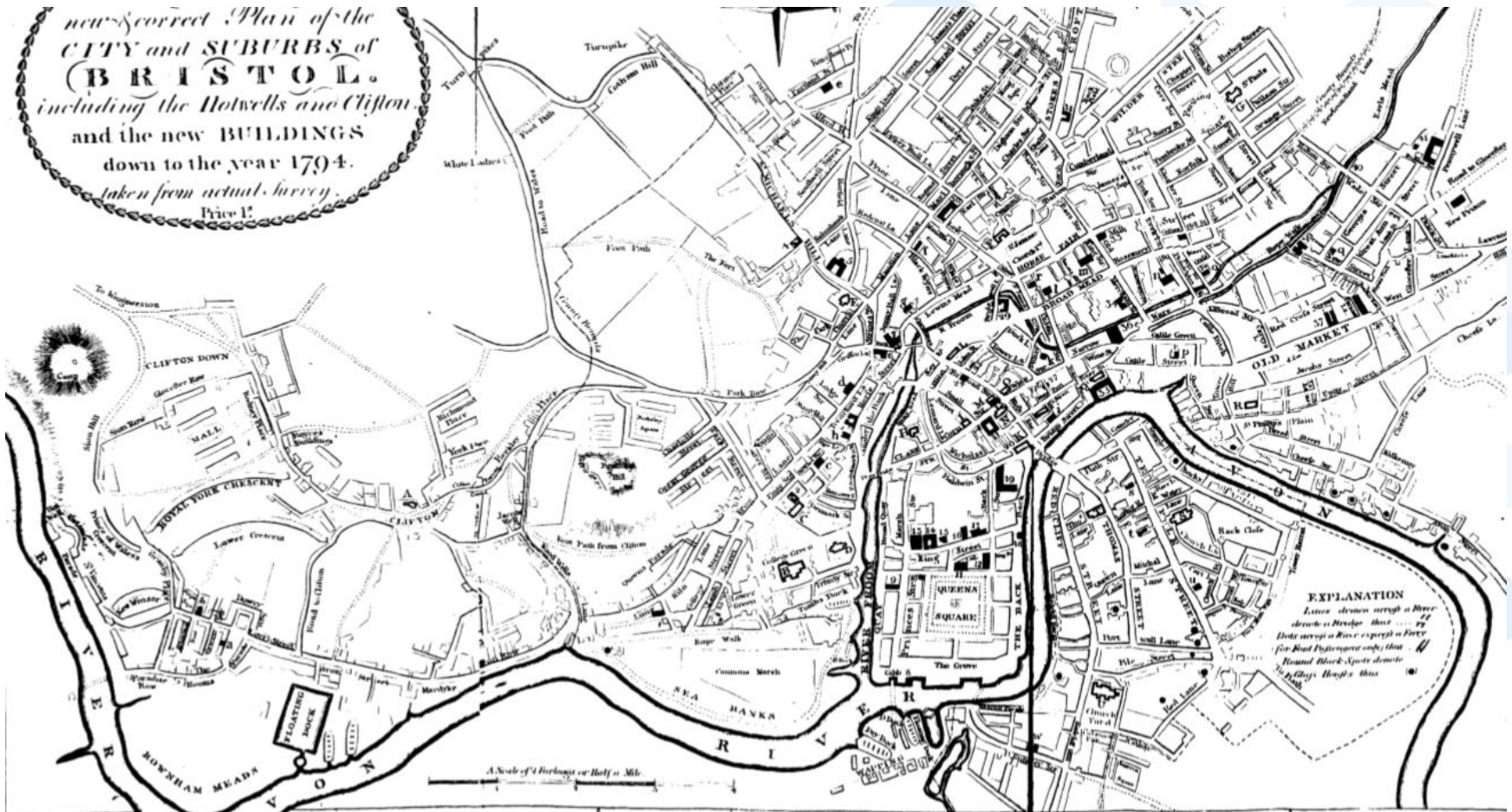
Postscript by Richard Edgeworth to Maria Edgeworth to
Margaret Ruxton, 21 July 1793, NLI MS 10166/7/105



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CHURCHES. A Clifton Church B Withershal C St Marks I St Werburgh K St Nicholas Q St Peter R St Philip	CHAPELS & MEETINGHOUSES. A Hotwells Chapel B Lady Doreys Chapel C French Chapel D Holywell Street E Pilgrims Meeting F New Jerusalem Church G Temple Chapel H Friends Meeting	Public Buildings & c. 10 Kewar Office 11 Custom House 12 Mansion House 18 Welsh Market 19 Leather Hall 20 Exchange Market 26 Custom House 27 New Market 28 St James Market & Fish 1 st	Other Landmarks: 1 Equestrian Theatre 2 Grammar School 3 Colston's School 4 Elizabeth's School 54 Taylor Arms 1 st 55 St Peter's Hospital 56 Newgate 57 St Stephens Hospital
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The houses in it
[Rodney Place] are the
best at Clifton & I have
bought the best

Thomas Beddoes to James Watt jr,
October 1798, LoB MS 3219/6/2/B/72



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D. array of Newton
27 of 1717.
The feeling produced by breathing
about 7 quarts of Ultra phosgene
mingled with 2 or 3 of atmospheric
air was indeed most delightful



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Shall I renounce the countenance
 living in the beauty of expression
 Shall I give up the articulately
 sounding voice whose gentle sound
 has so often lulled me to
 repose to worship the dog
 & unmeaning word benevolence
 no let me live a son a
 brother & a lover let
 me die a father &
 husband a friend &
 a father

On breathing the Nitrous Oxide
 Not in the ideal dreams of wild
 desire
 Have I beheld a rapture wakening
 form
 My bosom burns with no unhallowed
 fire
 Yet is my cheek with rosy
 blushes warm.
 Yet are my eyes with sparkling
 lustre filled
 Yet is my mouth replete with
 murmuring sound
 Yet are my limbs with inward
 transports thrill'd
 And clad with new born
 mightiness around —

RI MS HD/13/C, pp.5-6

On breathing the Nitrous Oxide

Not in the ideal dreams of wild desire
 Have I beheld a rapture wakening form
 My bosom burns with no unhallowed fire
 Yet is my cheek with rosy blushes warm
 Yet are my eyes with sparkling lustre filled
 Yet is my mouth replete with murmuring sound
 Yet are my limbs with inward transports thrill'd
 And clad with new born mightiness around —

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 mightiness around —



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