
A N
I N D E X
T O T H E
Fifty-Third V O L U M E
O F T H E
Philosophical Transactions.

For the YEAR 1763.

A.

*A*cademy Royal at Paris, animadversion on a passage in the history of it's memoirs, p. 342.

Achard, Mr. his remarks on swallows along the Rhine, p. 101.

Æpinus, Mr. his account of his electrical experiments, p. 437.—Note, p. 442, 449.

Ælia, an epithet given to several cohorts, p. 137.

Akenside, Dr. Mark, his account of a blow upon the heart and it's effects, p. 353.

Aleppo, account of the plague there and other calamities, p. 39.—Intense cold there, p. 40.—Extraordinary anecdotes relating to the plague, p. 40.

Alexander,

I N D E X.

- Alexander, Severus*, styled Dominus, p. 134. The opinion of his tendency to christianity, on what founded, p. 135.
- Alphabet*, Maltese-Punic, p. 282.—The Punic and Phœnician originally the same, p. 289.
- Antiquities*, great scene of, p. 127.
- Apartments*, Subterraneous, discovered at Civita Turchino in Italy, p. 127.
- Appendix* to the problems on chances, p. 404.
- Archimedes*, a mechanical assertion of his objected to, p. 107.
- Arderon*, Mr. William, his account of rain fallen in a foot square at Norwich, p. 9.
- Astronomical* observations, p. 241.—Tables, p. 247.

B.

- Bark* of willow, a remedy for agues, p. 95.
- Bartram*, Mr. John, his observations made at Pensilvania, on the yellowish wasp of that country, p. 37.
- Basilica*, it's various senses, p. 137.
- Bayes*, Rev. Mr. Thomas, his letter on a logarithmetical mistake of some eminent mathematicians, p. 269.—His essay towards solving a problem in the doctrine of chances, p. 370.
- Bergman*, Mr. Torbern, his observations on electricity and a thunder storm, p. 97.
- Berlin*, intense cold there, p. 62.
- Bobadscb*, Dr. his remarks on the Sea-pen, p. 422.
- Borlase*, Rev. Mr. William, his account of the late mild weather in Cornwall and quantity of rain fallen there in the year 1762, p. 27.

C.

- Cambridgeshire* produces fine saffron, p. 198.—The best *Cortex Anglicanus*, ibid.
- Case* of a person, just brought forth into this world, concerning events, p. 409.—Of a person seeing a lottery drawn, p. 411.

Chalmers,

I N D E X.

- Chalmers*, Dr. his account of the disease called *Tetanus*,
 p. 24.
- Chances*, doctrine of, problem in it solved, p. 370.
- Cold*, extreme at Aleppo, p. 40.—At Berlin, p. 62.
- Colebrook*, Mr. Joseph, his account of a case in which
 green hemlock was used successfully, p. 346.
- Conductor*, iron, instance of it's great utility, p. 94.
- Comet* of 1759, observations on it, p. 3.
- Cornwall*, winter there milder than in any other part of
 this island, p. 27.—Quantity of rain fallen there in the
 year 1762, *ibid.*
- Cyder-apples*, where best, p. 198.

D.

- Darkness*, remarkable, p. 63.
- Daval*, Peter, Esq; his letter shewing the Sun's distance
 from the earth, from Mr. Short's observations relating
 to the horizontal parallax of the Sun, p. 1.
- Darwes*, the Rev. Mr. Thomas, chaplain to the factory at
 Aleppo, his account of the plague there, p. 39.
- Die*, new, from the berries of a weed in South Carolina,
 p. 238.
- Doctrine* of chances, essay towards solving a problem in
 it, p. 370.
- Dominus*, a title given to Severus Alexander, tho' Lam-
 pridius says he refused it, p. 134.
- Dunn*, Mr. Samuel, his account of the appulse of the
 Moon to the planet Jupiter, observed at Chelsea, p. 31.
 His remarks on a censure of Mercator's chart, p. 66.
 His account of a remarkable meteor, p. 351.
- Du Pont*, Mr. Andrew Peter, his account of a remarka-
 ble marine insect, p. 57.
- Durham*, county of, Roman inscription there, p. 136.—
 Yields the best mustard seed, p. 198.

I N D E X.

- E.
- Earth*, it's mean diameter 3958 miles, p. 2.
- Earthquake*, in Siberia, large account of, p. 201.—Reflexions on it, p. 218.—At Chattigaon, 252.—In the East Indies, p. 256, 263, 265.
- Earths*, calcareous, their fecundating qualities explained, p. 366.
- Eclipse* of the Sun, April 1, 1764, projection of it, p. 240.—Of the Sun and Moon observed at Calcutta, p. 256.
- Eden*, river, in Cumberland, a remarkable decrease of, p. 7.
- Edwards*, Mr. George, observation made by him in optics, p. 229.
- Ebret*, Mr. Geo. Dionysius, his account of a species of Ophris, p. 81.—Of a new Peruvian Plant lately introduced into the English gardens, p. 130.
- Elastic* substance, p. 459.
- Electricity*, it's effects on a tetanus, or muscular rigidity, p. 10.—New experiments in it, p. 84.—Electrical horse-race, p. 89.—Further experiments, p. 436.
- Eliot*, Mr. his letter on the Virginian sand-iron, p. 56.
- Ellis*, John, Esq; his account of the Sea-pen, or Pennatula Phosphorea of Linnæus, with observations on Seapens in general, p. 419.
- Empoſthotonus*, account of this disorder, p. 22, 25.
- Engines*, method of lessening the quantity of friction in them, p. 139.
- Equitata*, the meaning of the word, in distinction to *equestris*, p. 137.
- Essex*, the finest Saffron-flowers produced there, p. 189.—also the best *cortex salignus*, *ibid.*
- Etruscan* inscriptions and paintings, p. 127.
- Events*, mathematical problems concerning their degrees of probability, p. 376.

Experiments,

I N D E X.

Experiments on sand-iron, p. 48.—New, on electricity, p. 84, 436.—On the tourmalin, p. 447, 451.
Extraordinary anecdotes relating to the plague at Aleppo, p. 45.

F.

Ferguson, Mr. James, his delineation of the transit of Venus expected in the year 1769, p. 30.—His account of a remarkable fish taken in King's-Road near Bristol, p. 170.—His projection of the eclipse of the Sun on April 1, 1764, p. 240.
Fire, electric, whether any heat in it, p. 89, 92.
Fish, remarkable, taken in King's-Road, p. 170.
Fitzgerald, Keane, Esq; his method of lessening the quantity of friction in engines, p. 139.
Fly, vegetable, account of the insect so called, p. 271.

G.

Gabry, Mr. Peter, his observations, at the Hague, of the comet which appeared in the month of May 1759, p. 3.—His observations at the same place of a fiery meteor like a chasm, p. 5.
Geach, Mr. Surgeon at Plymouth, his account of two remarkable cases in surgery, p. 231.
Geometers, ancient, a discourse on the *locus* for three or four lines celebrated among them, p. 496.
Glass, it's refractive power, p. 177.
Gloucestershire, best Valerian-roots grow there, p. 198.
Gulston, Mr. Edward, his translation from the Persian of an account of an earthquake at Chattigaon, p. 251.—His own account of the same, p. 263.
Gunpowder, Tartars and Kalmucks make it very expeditiously, p. 209.

I N D E X.

H.

- Hamilton*, Hugh, D. D. his letter, demonstrating the properties of the mechanic powers, with observations on the methods commonly used for that purpose, p. 103.
- Hazardous* way of taking swallows, p. 101.
- Heart*, account of a blow upon it, p. 353.
- Heat*, whether any in electric fire, p. 89.
- Hemlock*, green, account of a case, when it was happily tried, p. 346.
- Hirst*, Rev. Mr. an account of an earthquake at Chhattigaon, communicated by him, p. 251.—His account of an earthquake in the East Indies, and of two eclipses of the Sun and Moon, observed at Calcutta, p. 256.
- Horne*, Mr. Henry, his observations on sand-iron, p. 48.
- Horse-race*, electrical, p. 89.
- Horseley*, Mr. mistaken in the meaning of the word equitata, p. 137.
- Hornsbj*, Rev. Mr. his observations on the parallax of the Sun, p. 467.
- Huxham*, Dr. his letter on two remarkable cases in surgery, p. 231.

I.

- Inscriptions*, Etruscan, p. 127.—Roman, at Durham, p. 126.—Very curious, at Tunis, p. 211.—Punic, p. 274.
- Insect*, remarkable marine, p. 57.
- Iron*, made from the Virginian black sand, p. 48.—And the excellence of such iron, p. 58.
- Iron-conductor*, instance of it's great utility in thunderstorms, p. 94.

I N D E X.

K.

- Keil*, Dr. charged with a mistake, p. 106.
Kent, the Cortex Anglicanus, or willow-bark, there conjectured to be the best, p. 198.
King's-road, remarkable fish taken there, p. 170.
Kinnerfley, Mr. Ebenezer, his accounts of new experiments in electricity, p. 84.

L.

- Lever*, Sir Isaac Newton's proof of it's property, p. 109.
 — New proof of it's property, p. 112.
Light, refracted, rules and examples concerning it, p. 73.
Lightening, it's setting things on fire discussed, p. 93.—Singular effect of it, p. 100.
Lincolnshire, supposed to produce the best Cortex Salignus, p. 198.
Lindo, Mr. Moses, his account of a new die from the berries of a weed in South Carolina, p. 238.
Linnaeus, account of his Pennatula Phosphorea, p. 419.
Logarithms, letter on, p. 269.
Longitude, difference of, between Greenwich and Paris, observatories determined by Mr. Short, p. 158.

M

- Marine-insect*, p. 57.
Mechanic-powers, their properties demonstrated, p. 103.
Mercator's-chart, remarks on a censure of it, p. 66.—Defended, p. 69.
Meteor, fiery, observations on it, p. 5.—account of a remarkable one, 341.
Milbourne, William, Esq; his account of a remarkable decrease of the river Eden in Cumberland, p. 7.

Mogily,

I N D E X.

- Mogily*, or barrows; account of a remarkable one, p. 357.
 —Abound in nitre, *ibid.*
Monti Rossi, account of them, p. 127.
Moon, account of it's appulse to the planet Jupiter, observed at Chelsea, p. 31. —Eclipse of it observed at Calcutta, p. 256.
Mountaine, Mr. William, his defence of Mercator's chart against the censure of the late Mr. West of Exeter, p. 69.
Murdock, Mr. P. his rules and examples for limiting the cases in which the rays of refracted light may be reunited in a colourless pencil, p. 173.
Muscular rigidity, effects of electricity on it, p. 10.

N.

- Netherby*, it's name under the Romans, p. 136.
Newton, Sir Isaac, his proof of the property of the lever, p. 109.
Nitre, method of making it in Podolia, p. 356. —Signs of it in a foil, p. 357. —Thoughts on it's origin, p. 363. —More of it made in the Prussian dominions than in all Europe besides, p. 362. —Chemical processes concerning it, p. 367.

O.

- Observatories* at Greenwich and Paris, their difference of Longitude determined by Mr. Short, p. 158.
Ophris, species of, p. 81.
Opisthonos, account of this disease, p. 22.
Opticks, observations in, p. 229.
Oxfordshire, it's Valerian-roots the most medicinal, p. 198.

P.

- Paintings*, Etruscan, 127.
Pallas, Dr. Simon, of Berlin, his state of the cold there in the winter of 1762. p. 62

I N D E X.

- Parallax* of the Sun, horizontal, observations on it, p. 1 —
 Treated of more at length, p. 300.—Means of the fe-
 veral determinations of it, p. 339.—Mr. Hornsby's
 observations on it, p. 467.
- Pemberton*, Dr. his discourse on the *locus* for three or
 four lines celebrated among the antient geometers,
 p. 496.
- Plague* and other calamities at Aleppo, p. 39.
- Plants*, catalogue of fifty from Chelsea Garden, presented
 to the Royal Society for the year 1762, pursuant to the
 direction of Sir Hans Sloane, p. 32.—Singular, p. 81.
 —A new Peruvian one lately introduced into the Eng-
 lish gardens, p. 130.
- Podolia*, manner of making nitre there, p. 356.
- Powers*, mechanic, properties of them demonstrated, p.
 103.
- Pringle*, Dr. utility of his experiments, p. 366.
- Problems*, by professor Waring, p. 294.
- Punic* inscription, p. 274.
- Punic* tongue, still the vernacular language of the com-
 mon people at Malta, p. 291.

R.

- Rain* fallen in a foot square at Norwich, account of, p. 9.
 —Quantity fallen in Cornwall in the year 1761, p. 27.
 —Mean quantity of it in a year, p. 364.
- Resistance* in electrical experiments illustrated, p. 458.
- Rigidity*, muscular, effects of electricity on it, p. 10.—
 Cold a cause of it, p. 20.
- Roman* inscriptions at Netherby in Cumberland, p. 133.—
 At Tunis in Africa, p. 211.
- Rutherford*, Dr. an argument said to be improperly appli-
 ed by him, p. 106.

Saffron,

I N D E X:

S.

- Saffron*, where the finest, p. 198.
- Salt-petre*, mountains of it in Siberia, p. 209.
- Sand-iron*, experiments on, p. 48.
- Sea-pen*, or *Pennatula Phosphorea* of Linnæus, account of, with observations on Sea pens in general, by John Ellis, Esq; p. 419.—Dr. Bohadsch's remarks on it, p. 422.—Variety of them, p. 426, 430.
- Short*, Mr. James, his observations on the Sun's horizontal parallax, p. 1.—His determination of the differences of longitude between the royal observatories of Greenwich and Paris, by observations of the transit of Mercury over the Sun in the years 1723, 1736, 1743, and 1753, p. 158.—His second paper concerning the parallax of the Sun, p. 300.—His animadversion on a passage in the history of the Memoirs of the Royal Academy at Paris, p. 342.—His method of determining the apparent least distance of the centers of the Sun and Venus, p. 343.
- Siberia*, earthquake there, p. 201.—Worthy the notice of the curious, p. 203.—Reflexions on the said earthquake, p. 208.
- South-Carolina*, new species of Sea-pen found on it's coast, p. 426.
- Sterling*, Rev. Mr. James, his account of a remarkable darkness at Detroit in America, p. 63.
- Stone*, Rev. Mr. his account of the success of the bark of the willow in the cure of agues, p. 195.
- Sun's* mean horizontal parallax, p. 1, 59.—Its distance from the earth proved from it, p. 2.—Account of it's eclipse, April 1, 1764, p. 140.—It's parallax farther determined, and the quantity thereof more fully ascertained, p. 300.—The apparent least distance of it's center and that of Venus determined, p. 343, 344.
- Surgery*, two remarkable cases in, p. 231.

Swallows,

I N D E X:

- Swallows*, remarks on them, p. 101.
Swinton, Rev. Mr. his attempt to explain a Punic inscription, lately discovered in the isle of Malta, p. 274.

T.

- Tables*, astronomical, by Mr. Ferguson, p. 247.
Taylor, the Rev. John, LL. D. his observations on two ancient Roman inscriptions discovered at Netherby in Cumberland, p. 133.
Tetanus, account of this disease, p. 21.
Thoughts on the origin of nitre, p. 363.
Thunder-storm, observations on, p. 97.
Tourmalin, experiments on it, p. 436.
Transit, see Venus, p. 447, 451.
Tunis, remarkable Roman inscription there, p. 211.

V.

- Valerian Roots*, where the most medicinal, p. 198.
Vegetables, that they have their peculiar soils, exemplified, p. 198.
Venus, it's expected transit, p. 30.—It's late transit, p. 59: least distance of it's center and that of the Sun, p. 343.
Verelst, his translation of the Persian account of the earthquakes that have been felt in the province of Islamabad from the 2d to the 19th of April 1762, p. 265.

W.

- Wargentia*, M. his letter on the late transit of Venus, p. 59.
Waring, professor, his problems, p. 294.
Wasp, yellowish one of Pensilvania, p. 37.
Water, it's refractive power, p. 177.

I N D E X.

- Watson*, Dr. William, his observations on the effects of electricity applied to a Tetanus, or muscular rigidity of four months continuance, p. 10.—His account of the insect called the vegetable fly, p. 271.
- West*, remarks on a censure of Mercator's Chart in a posthumous work of his, p. 66.
- Weymarn*, Monf. his account of an earthquake in Siberia, p. 201.
- Wilcox*, Joseph, Esq; his account of some subterraneous apartments, with Etruscan inscriptions and paintings, discovered at Civita Turchino in Italy, p. 127.
- Willow-bark*, a remedy for agues, p. 195.—It's favourite soil, p. 198.
- Wilmar*, Dr. John, his catalogue of the fifty plants from Chelsea Gardens, presented to the Royal Society by the worshipful company of Apothecaries for the year 1762, pursuant to the direction of Sir Hans Sloane, Baronet, p. 32.
- Wilson*, Mr. B. his letter on electricity, and the tourmalin, p. 436.
- Wine*, spirit of, it's refractive power, p. 177.
- Wolf*, Dr. his account of the method of making nitre in Podolia, p. 356.

The END of VOL. LIII.

I N D E X

E R R A T A.

V O L. LI. Part II. for the Year 1760.

Page 688. line 21, &c. for *Victoriam* in averſa parte *Gradientem* præ ſe ferentes, denarios tamen, in perpetuam rei memoriam, ſignari juſſit.—*inſert*—Denarios tamen, *Victoriam* in averſa parte *Gradientem* præ ſe ferentes, in perpetuam rei memoriam, ſignari juſſit.

V O L. LIII.

- Pag. 136 line 21 *dele* have.
- 375 2 from the bottom, *dele* every.
- 397 first line in the note, for r^2-1 read r^2-1 .
- 401 eſcraſe the aſterisk in the 4th line from the top, and place it in the 10th line.
- 405 6 and 10, for on read in
- 415 4 from the bottom, for 1-2 E read 1+2 E
- 416 1 for E read Σ : and in the ſecond line draw a ſtroke over $mz-m^3z^3$, &c.
- 418 3d and 4th lines in the note, for comes almoſt as near read comes, in moſt caſes, almoſt as near.
- 446 31 for ſupect r. ſuſpect
- 448 22 for fig. 2. r. fig. 1.
- 446 17 for fig. 1. r. fig. 3.
- 30 for fig. 2. r. fig. 4.
- 451 29 for fig. 3. r. fig. 5.
- 458 12 for equally r. unequally
- 465 9 for TAB. XXIII. r. TAB. XXII.

251/138

