

The Royal Society of London

PHILOSOPHICAL TRANSACTIONS

Volume 7
1672

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PHILOSOPHICAL
Transactions:
GIVING SOME
ACCOMPT
OF THE
Present Undertakings, Studies and Labours
OF THE
INGENIOUS
IN MANY
Considerable Parts
OF THE
WORLD.

V O L. VII.

For the Year MDC LXXII.

L O N D O N,

Printed by T. R. for John Martyn at the Bell in St. Pauls
Churchyard, Printer to the ROYAL SOCIETY.

Beginning the Eighth Year

PHILOSOPHICAL TRANSACTIONS.

March 25. 1672.

The CONTENTS

A Preface to this Eight Year. An Account of a New kind of Telescope, invented by Mr. Isaac Newton. A Breviat concerning Dr. Wallis's two Methods of Tangents. A Letter of Monsieur Hevelius about a Comet lately seen by him at Dantzick: confirm'd by Observations made in France. An Account concerning Eggs to be found in all sorts of Females. An Account of some Books: I. PLANTARUM UMBELLIFERARUM Distributio nova per Tabulas Cognationis & Affinitatis, ex Libro Naturæ observata & detecta; A. Rob. Morison. II. PESTIS nuperæ Londini grassantis Narratio Historica, A. Nath. Hodges. III. A Philosophical Essay, concerning the probable CAUSES of STONES in the Greater world, &c. by D. Thomas Sherley. IV. Carolus Claromontius De AERE, SOLO & AQUIS Angliæ, deque Morbis Anglorum vernaculis; unâ cum ejusdem Observationibus Medicis CAMBRO-BRITANNICIS.

PHILOSOPHICAL TRANSACTIONS.

April 22. 1672.

The CONTENTS.

Mr. Newtons further suggestions about his Reflecting Telescope ; together with his Table of Apertures and Charges for the several Lengths of that Instrument. An Answer of the same to some Objections made by a French Philosopher against the said Telescope. Some Observations of Jupiter's Transit near two Fixt Stars ; made by Mr. Flamsteed. A Relation of the Return of a great Permanent Spot in the Planet Jupiter, observed by signor Cassini ; together with an intimation of the Usefulness of that Discovery. Observations of a New Comet, made at Paris by the same. An Account of some Books : I. De RESISTENTIA SOLIDORUM, Alex Marchetti. II. A Table of Ten thousand SQUARE NUMBERS, and of their SIDES or ROOTS, &c. III. Regneri de Graaf de MULIERUM ORGANIS GENERATIONI INSERVIENTIBUS Tractatus novus. IV. Discours de la CONNOISSANCE des BESTES, par le P. Pardies.

PHILOSOPHICAL TRANSACTIONS.

May 20. 1672.

The CONTENTS.

Some Considerations of Mr. Isaac Newton upon part of a Letter of M. de Bercé concerning his Reflecting Telescope pretended to be improv'd by M. Casségrain. Some Experiments propos'd in relation to the same Mr. Newton's Theory of Light; together with the Observations by him made thereon. An Account communicated by Mr. Lister, of a Stone cut out from under the Tongue of a Man. An Extract of a Letter of the same, concerning animated Horse-hairs. Some Observations, made by Signor Thomas Cornelio, of Persons pretending to be stung by Tarantulas. An Account of the Aponensian Baths in Italy, by John Dodington Esquire. Reflexions made by P. Lana upon an Observation relating to the formation of Crystals. A Relation of an Inland-Sea near Danzick, yeilding a green Substance which causeth certain Death; by Mr. Kirkby. An Account of some Books. I. de ANIMA BRUTORUM, Exercitationes duæ, Auth. Thoma Willis M.D. &c. II. Suite des nouvelles Experiences sur la VILPERE; par Moyse Charas. III. The CHIRURGICAL and ANATOMICAL Works of Paul Barbette M.D; together with a Treatise of the Plague. IV. The AMERICAN PHYSITIAN. by W. Hughes.

PHILOSOPHICAL TRANSACTIONS.

June 17. 1672.

The CONTENTS.

Additions to the Narrative publish'd in Numb. 58. about the Conjunction of the Ocean and Mediterranean by a Channel in France. A Letter of P. Pardies, containing some Animadversions upon Mr. Newton's Theory of Light. An Answer of Mr. Newton to that Letter. Two Observations of Stones found, the one in the Bladder of a Dogg, the other fastned to the Back-bone of a Horse. An Account of some Books. I. An Essay about the Origin and Virtues of GEMS; by the Honourable Robert Boyle Esquire. II. Johannis Swammerdami M.D. UTERI MULIEBRIS Fabrica, una cum Methodo nova Cavitates corporis ita preparandi, ut suam semper genuinam faciem servant. III. Three Letters of Johan. Dom. Cassini, concerning his Hypothesis of the Sun's motion, and his doctrine of Refractions. IV. Dr. Richard Sharrocks History of the Propagation and Improvement of VEGETABLES, by the concurrence of Art and Nature: The Second Edition much enlarged.

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Some

PHILOSOPHICAL TRANSACTIONS.

July 15. 1672.

The CONTENTS.

A Set of Quære's propounded by Mr. Newton, to be determined by Experiments, positively and directly concluding his new Doctrine of Light and Colours. Some Annotations of Dr. Walter Needham upon a Discovery, pretended to have been made by Monsieur Pecquet, of a Communication between the Ductus Thoracicus and the Inferior Vena cava. A Second Letter of P. Pardies, relating to Mr. Newtons Answer, made to his first Letter. Mr. Newtons reply to that Second Letter. An Account of some Books : I. SCARBROUGH-SPAW Spagyrically anatomized ; as also a NEW-TEARS GIFT for Dr. Wit-ty : by George Tonstal, M. D. II. NEW ENGLANDS Rarities discover'd ; together with the REMEDIES used by the Natives to cure their Diseases, Wounds and Sores, by John Josselin. III. A Rational way of preparing ANIMALS, VE-GETABLES, and MINERALS for a Physical use; by Edw. Bolnest Med. Reg. Ord. IV. Miscellanea Curiosa PHY-ICO-MEDICA Academiae Naturæ Curiosorum ; Annus secundus.

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For the moneths of *September* and *October*.
Octob. 14. 1672.

The CONTENTS.

An Extract of an Epistle of Dr Langelot, representing, Of what great use Digestion, Fermentation, Triture or Grinding, if they were well regarded, might be in Chymistry; and proving it by very considerable Experiments, said to have been made by himself. An Extract of a Letter of Mr. Listers, enlarging his former Notes about Kermes; and withal insinuating his conjecture of Coccineil's being a sort of Kermes. A Letter written from Florence by Mr. Tho. Platt, containing divers remarkable Experiments, there made upon Vipers, since M. Charas's second Reply to Sig. Franc. Redi, Doctor Wallis's Answer to the Book, entituled Lux Mathematica, &c. The same Doctors Additions to what he lately publish't in his Works De Motu & Mechanice, concerning the Center of Gravity of an Hyperbola. An Account of some books: I. Tractatus de VITA NATURÆ: &c. Auth. Franc. Glissonio, M.D. & P. &c. II. Jeremiæ Horroccii Opera Posthuma, una cum Crabtræi Observat. Cælestibus, nec non Joh. Flamstedii de Temporis Equatione Diatriba, &c. III. Marc. Malpighii Dissertatio Epistolica de FORMATIONE PULLI in OVO. IV. De MENTE HUMANA Libri quatuor; Auth. J. B. du HAMEL. V. A Letter of Francesco Redi concerning some Objections made upon his Observations about Vipers; together with a Reply to that Letter by Moyse Charas: now both Printed in English. VI. De Gemmarum Origine & Viribus Exercitatio; A. Rob. Boyle: Now Printed in Latin.

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An

PHILOSOPHICAL TRANSACTIONS.

November 18. 1672.

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Mr. Isaac Newtons Answer to some Considerations upon his Doctrine of Light and Colors, as it was Printed in Numb. 80. of these Tracts: In which Answer some things being premised about both the Practique and Theorique part of Opticks; the Author endeavours to make it out, that he assumes no Hypothesis for his Doctrine; that the Examiners and all other Mechanical Hypotheses in their genuine constitution are conformable to his Doctrine; and that it is not necessary to limit or explain his Doctrine by any Hypothesis. To which is added a Resolution of three important Quære's, 1. Whether the Unequal Refractions, made without respect to any inequality of incidence, be caused by the different Refrangibility of several rays; or by the Splitting, Breaking or Dissipating the same Ray into diverging parts? 2. Whether there be more than two Original colours? 3. Whether Whiteneſs be a mixture of all Colors? Some particulars of this subject recommended to further Consideration. An Accompt of two Books: I. Otthonis de Gericke EXPERIMENTA MAGDEBURGICANA NOVA, II. Tbesaurus MEDICINÆ PRATICÆ, Studio & operâ Thomæ Burnet. M D. &c.

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Mr.

PHILOSOPHICAL TRANSACTIONS.

Decemb. 16. 1672.

The CONTENTS.

Some Observations, made by the Noble Rob. Boyle, about Shining Flesh, both of Veal and a Pullet; and that, without any sensible Putrefaction in those Bodies. A Description of a singular kind of Mushroom, yielding a Milky Juice, not to be endur'd upon our tongues; observed by Mr. Lister. An Extract of a Letter of Mr. Flamsteed, concerning the Appulses of the Moon and the other Planets to Fix'd Stars, by him calculated for the Year 1673; together with an Observation of the Planet Mars. The Calculations themselves. An Account of some Books: I. Prose de Signori Academici di Bologna. II. Relation de divers Voyages Curieux, de M. Thevenot, IV^e Partie.

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Some

PHILOSOPHICAL TRANSACTIONS.

Januar. 20. 16⁷²₇₃.

The CONTENTS.

A further Account concerning the Existence of Veins in all kind of Plants ; together with a Discovery of the Substance of these Veins being Membranous, as also of some Acts in Plants resembling the Acts of Sense ; likewise of the Agreement of the Venal Juice in Vegetables with the Blood of Animals, &c. Communicated by Mr. Lyfter. The Copy of a Letter from Somersetshire concerning a Strange Frost which hath lately done much hurt about Bristol ; together with some useful hints suggested upon that occasion. An Extract of a Letter written by Monsieur Slufius, giving his short and easie Method of drawing Tangents to all sorts of Geometrique Curves. An Account of some Books ; I. A Discourse concerning the Origin and Properties of Wind ; by R. Bohun. II. Deux Machines propres à faire les Quadrans avec tres-grande facilité ; par le P. Ignace Gaston Pardies, S. J. Two Advertisements ; one, concerning a Body of Algebra in English, by Mr. John Kersey now in the Press ; the other, a System of Musick, ready to be publish't by John Birchencha Esq;

PHILOSOPHICAL TRANSACTIONS.

Febr. 24. 1672.
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The CONTENTS.

A New Experiment of Mr. Boyle concerning an Effect of the Varying Weight of the Atmosphere upon some Bodies in the water; suggesting a conjecture, that the very Alterations of the Air in point of Weight may have considerable operations even upon mens Sickness or Health. An extract of some Letters from Dr. John Wallis to the Publisher, concerning the Suspension of Quicksilver, well purged of Air, much higher than the ordinary Standard in the Torricellian Experiment. An Account of two Books: I. Observations Topographical, Moral, and Physiological, made in a Journey through part of the Low Countries, Germany, Italy, and France, &c. by John Ray, Fellow of the R. Society: whereunto is added, A brief Account of F. Willoughby Esq; his Voyage through a great part of Spain. II. Bernhardi Vareni M. D. Geographia Generalis, aucta & illustrata ab Isaaco Newtono, è Soc. Reg. An Index for the Trade of the Year 1672.

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