PHILOSOPHICAL TRANSACTIONS.

GIVING SOME ACCOUNT OF THE
Present Undertakings, Studies, and Labours, OF THE INGENIOUS,
IN MANY Considerable Parts of the WORLD.

VOL. XL. For the Years 1737, 1738.

With a Supplement, being the Croonean Lectures on Muscular Motion, for the Year 1738.

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M.DCC.XLI.
TO THE

HONOURABLE

John Winthrop, Esq;

FELLOW OF THE ROYAL SOCIETY,
&c. &c.

SIR,

PERSONAL Friendships and Favours are become the trite Topics of Dedications and public Addresses, as if it concerned the Public to have upon Record the mutual Regard, private Persons may have to each other: Therefore without expatiating here, so far as Gratitude might lead me, on the many Favours you have honour'd me with, I shall confine myself to the Relation Your Illustrious Grandfather had, and Yourself have, to the Royal Society.

No sooner were the Sciences revived at the Beginning of the last Century, and that Natural Knowledge began to be thought a Study
DEDICATION.

Study worthy a real Philosopher, but the ingenious JOHN WINTHROP, Esq; your Grandfather, distinguish’d himself in the highest Rank of learned Men, by the early Acquaintance he contracted with the most Eminent not only at Home, but in his Travels all over Europe, by the strict Correspondence he afterwards cultivated with them *, and by several learned Pieces he composed in Natural Philosophy; which indeed his innate Modesty would not suffer him to publish immediately,

* As might appear from the great Treasure of curious Letters on various learned Subjects fill in your Hands, E. gr. from

Earl of Anglesey.
Earl of Arundel.
Elias Ashmole, Esq.
Rob. Boyle, Esq.
Tycho Brahe Otto-

nides.
Lord Breton.
Lord Brooke.
Lord Bruncker.
Dr. Browne.
Jo. Camden.
Dr. Charlec.
Dom. Charles Jefuita.

Ludig, Bat.

Lord Chau.Clairendon.
Dr. Comenius.

King CHARLES II.
O. CROMWELL.

Arthur Dee, M. D.
Jo. Dee, Jun.
Dr. Dukinjon.
Sir Kenelm Digby.
Corn. Drebelius.
ERNESTUS-Colonie

Episcopii &

Elect.

Joh. Epagnet, Pr.

Parli. Aquitan.

Dr. Everard, Ox.
Pet. Jo. Faber, M.D.
Monjeale.
Gal. Galleen.
J. Rod. Glauber.
Dr. Goddard.

Princps Gothar.

Dr. Grew.
Mr. Hartlib.

Dr. Haversfield.

J. Bapt. van Hel-monch, cuu. fuit. unius

us propri. amicus ille

mirificus.

J. Fred. Helvetius.
Lord Herbert.

Hans Albrecht Don-

minus Herdterine

& Prefectus Dal-

matiae.

Joh. Hevelius Cos.
Gedan.

Sir Jo. Heydon.

Fred. Princeps Hol-

fate & D. Silvice.

Robert Hook.

Ch. Howard, after-

wards Duke of Nor-

folk.

Dr. Jefse.

Joh. Kephler.

J. S. Kliefeler, M.D.

Dr. Lovell, Ox.

Earl of Manchester.

Lord Chamberlain.

Dr. Merott.

Dom. Michael, Monas-

thous.

John Milton.

Joh. de Monte.

Sir Rob. Moray.

Lord Napier.

Mr. Iface, afterwards

Sir Iface Newton.

Mr. Oldenburgh.

Dr. Pell.

Earl of Pembroke.


Alburt Peterson Am-

fiel. vixit an. 190.

Sir Edward Peto.

Dr. Polenmann.

Jo. Ray.

Conrad. Roves Dom-

minus Rosenfein

Margrav, in Croa-

tia.

Prince RUPERT.

Dr. Sackville.

Earl of Sandwich.

Dr. G. Starkie.

Lord Say and Scal.

J. Sigelius in Ac.

Franc. Med. &c.

Prof.

Sir Rob. Southwell.

Dr. Sprat, Bishop of

Reochester.

PRINCEPS Sulber-

genis.

Dr. Tanckmarus,

M. D.

Jo. Tradescant.

Sir Philiberto Ver-

nattii.

Dr. Wilkins, after-

wards Bishop of

Chefter.

Dr. Willis.

Dr. Witherly, Pr. Col.

Med. Lond.

Dr. Worlesley.

Sir Henry Wotton.

Sir Chrift. Wren.
and when prevailed on by Friends to impart some of them to the Public, he concealed his Name, not being solicitous of the Reputation they might reflect on their Author: The same Principle in you still induces you not to withdraw the Veil; it having always been a Maxim with both him and you, _Prodeffe quam conspici_.

The Cloud that was gathering over his native Country, warned him and his Father to seek a quiet Retirement in the new World,

--- _Sedes ubi fata quietas_

_Offendunt; illic fas Regna resurgere nova._

Where, after having sold a very plentiful Estate in _Old England_, they conducted a large Body of People, and at the Expence of their whole Patrimony, first establish'd the Colony of _Massachusetts-Bay_, and afterwards other Colonies in _New-England_, so that they were in Reality the _Founders_ of that now most flourishing and most potent of all the

† Many more unpublisht remain in MS. in your Hands.

* See the Magnalia _Christi Americana_.

b  Eng-
DEDICATION.

English Settlements, NEW ENGLAND, of which his Father the Honourable John Winthrop, Esq; the Elder, was the first Governor.

The Fatigues of this great Undertaking took up too much of his Time, to allow him all that Leisure that was wish'd for by his learned Friends in Europe, for his publishing many curious Pieces which they had Reason to expect from him. His distant Abode from London, and his not putting his Name to his Writings, made him not so universally known as the Boyle's, the Wilkins's, or the Oldenburg's of his Days, nor his Name handed down to us with such general Applause. In Concert with these and other learned Friends, (as he often revisited England) he was one of those, who first form'd the Plan of the Royal Society; and had not the Civil Wars happily ended as they did, Mr. Boyle* and Dr. Wilkins, with several other learned Men, would have left England, and, out of Esteem for the most excel-

* As may appear in Letters from Mr. Boyle, Dr. Wilkins, Sir K. Digby, &c. to Mr. Winthrop.
lent and valuable Governor, *JOHN WIN-THROP* the younger, would have retir'd to his new-born Colony, and there have establish'd that *Society for promoting Natural Knowledge*, which these Gentlemen had formed, as it were, in *Embryo* among themselves; but which afterwards receiving the Protection of King *CHARLES II.* obtain'd the Style of *Royal*, and hath since done so much Honour to the *British Nations*, as to be imitated by the several *European Princes*, who desir'd to be esteem'd the *Patrons* of Learning.

When the *Royal Society* was thus founded, it was his constant Care to shew a peculiar Regard to promote the Design of its Institution, by sending over many Specimens of the curious natural Productions of those Countries, and by communicating in Writing his Remarks upon them; some of which grace the earlist of our Transactions: And by a Letter from Mr. *Oldenburg*, written by Order of the *Royal Society*, Mr. *Winthrop*
was in a particular manner invited to take upon him the Charge of being the chief Correspondent of the Royal Society in the West, as Sir Philiberto Vernatti was in the East-Indies.*

You, Sir, have imitated the Example of your worthy Ancestor: Your Regard to the Royal Society shew'd itself from your Youth; you having sent to England many rare Curiosities for the Museum of the Royal Society, which, although by the Disingenuity of the Pilot they missed their Port, and were not laid up in the intended Repository, are some of them to be seen in a recent Museum now at Cambridge.

When the Injustice and Ingratitude of a designing Party in Power among that very People, whereof the WINTHROPS have always been in the most strict Sense the Fathers, the PATRES PATRIÆ, had most cruelly driven you from your Family

* In a Letter from Mr. Oldenburg, Aug. 3. 1664.
and Native Soil, to seek Justice and Security in your natural Rights from the Hands of our most Gracious Sovereign; amidst the Vexation of the greatest Abuses, and the Hurries of the most sudden Departure, you were not unmindful of the Royal Society; for soon after your being chosen a Fellow, you increas’d the Riches of their Repository with above Six hundred curious Specimens, chiefly in the Mineral Kingdom, accompanied with a List containing an accurate Account of each Particular; thereby shewing your great Skill in natural Philosophy, and at the same time intimating to England the vast Riches which lie hidden in the Lap of her principal Daughter. Since Mr. Colwall, the Founder of the Museum of the Royal Society, you have been the Benefactor who has given the most numerous Collection; and it is to be hoped your generous Example will be followed by some of the present Members, by which means our Repository may soon become one of the most conspicuous in Europe.

The extraordinary Knowledge, you have in the deep Mysteries of the most secret Hermetic
DEDICATION.

Erect Science, will always make you esteemed and courted by learned and good Men; but I forbear to say any more, lest the Trouble I have given you by this long Address should be a Trespass upon your Patience; in which Case I know your Goodness will forgive me; and I hope you will be persuaded, that I am upon all Occasions, with the greatest Sincerity,

SIR,

Dartmouth-street, Westminster, August 15, 1741. Your most affectionate Friend, and obliged humble Servant,

CROMWELL MORTIMER, M.D. Secretary to the Royal Society, and Fellow of the Royal College of Physicians, LONDON.