

TRANSACTIONS
OF THE
GEOLOGICAL SOCIETY
OF LONDON.
SECOND SERIES.

VOLUME IV.

PART THE SECOND.

Quod si cui mortalium cordi et curæ sit, non tantum inventis hæere, atque iis uti, sed ad ulteriora penetrare; atque non disputando adversarium, sed opere naturam vincere; denique non belle et probabiliter opinari, sed certo et ostensive scire; tales, tanquam veri scientiarum filii, nobis (si videbitur) se adjungant.

Novum Organum, Præfatio.

LONDON:

PRINTED BY RICHARD TAYLOR, RED LION COURT, FLEET STREET.

SOLD AT THE APARTMENTS OF THE GEOLOGICAL SOCIETY,
SOMERSET HOUSE.

1836.

OFFICERS AND COUNCIL OF THE GEOLOGICAL SOCIETY
OF LONDON.

1836.

PRESIDENT.

CHARLES LYELL, Jun., Esq. M.A. F.R.S. F.L.S.

VICE-PRESIDENTS.

Rev. WILLIAM BUCKLAND, D.D. F.R.S.
F.L.S., Professor of Mineralogy and Geology in
the University of Oxford.
Sir PHILIP DE MALPAS GREY EGERTON,
Bart. M.P. F.R.S.

GEORGE BELLAS GREENOUGH, Esq. F.R.S.
F.L.S.
EDWARD TURNER, M.D. F.R.S. L. & E. Pro-
fessor of Chemistry in the University of London.

SECRETARIES.

WILLIAM JOHN HAMILTON, Esq. | WOODBINE PARISH, Jun., Esq. F.R.S.

FOREIGN SECRETARY.

HENRY THOMAS DE LA BECHE, Esq. F.R.S. F.L.S.

TREASURER.

JOHN TAYLOR, Esq. F.R.S.

COUNCIL.

FRANCIS BAILY, Esq. V. P. & Treas. R.S. F.L.S.
WILLIAM JOHN BRODERIP, Esq. F.R.S.
F.L.S.
WILLIAM CLIFT, Esq. F.R.S.
Sir ALEXANDER CRICHTON, M.D. F.R.S.
WILLIAM HENRY FITTON, M.D. F.R.S.
F.L.S.
HENRY HALLAM, Esq. F.R.S.
ROBERT HUTTON, Esq.
RODERICK IMPEY MURCHISON, Esq.
V.P.R.S. F.L.S.

Viscount OXMANTOWN, F.R.S.
JOHN FORBES ROYLE, Esq. F.L.S.
Rev. ADAM SEDGWICK, Woodwardian Professor
in the University of Cambridge, F.R.S. F.L.S.
Lieut.-Col. WILLIAM HENRY SYKES, F.R.S.
F.L.S.
HENRY WARBURTON, Esq. M.P. F.R.S.
F.L.S.
Rev. WILLIAM WHEWELL, F.R.S. F.L.S.

CURATOR AND LIBRARIAN.

WILLIAM LONSDALE, Esq.

ADVERTISEMENT.

THE Editors of the Transactions of the Geological Society are directed to make it known to the Public, that the Authors alone are responsible for the facts and opinions contained in their respective papers.

It is requested that all letters and communications to the Secretaries, and presents to the Society, may be addressed to the "Apartments of the Geological Society, Somerset House, London."