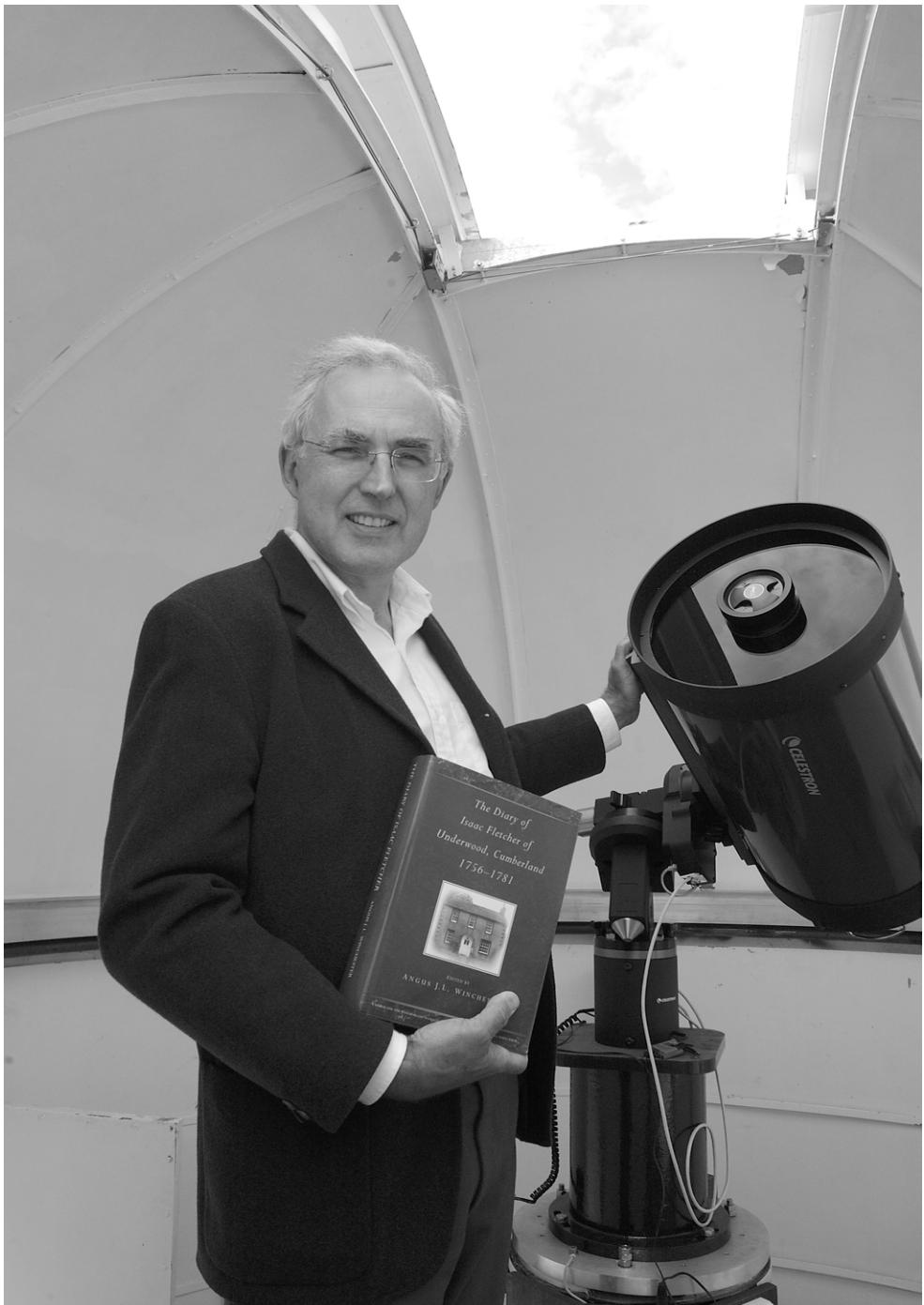


TRANSACTIONS
OF THE
CUMBERLAND & WESTMORLAND
ANTIQUARIAN & ARCHAEOLOGICAL SOCIETY
(FOUNDED 1866)



The President, Angus Winchester, celebrating the transit of Venus in June 2004. Isaac Fletcher's diary, published by the Society in 1994, records the planet's transit in June 1761, which was observed by Fletcher from his home at Underwood, near Cockermouth (Photograph by Lancaster University Photographic Unit).

TRANSACTIONS
OF THE
CUMBERLAND & WESTMORLAND
ANTIQUARIAN & ARCHAEOLOGICAL SOCIETY
(FOUNDED 1866)

THIRD SERIES

VOLUME IV

EDITORS

B. C. JONES, M.A., F.S.A.

W. G. WISEMAN

PRINTED BY TITUS WILSON & SON, KENDAL

2004

Cumberland and Westmorland Antiquarian and Archaeological Society

LIST OF OFFICERS FOR THE YEAR 2004-2005

PATRONS

THE RIGHT REV. THE LORD BISHOP OF CARLISLE
LIEUT.-CMDR. B. G. ASHMORE, M.B.E., R.D., J.P., M.A., F.S.A.

PRESIDENT

ANGUS J. L. WINCHESTER, B.A., Ph.D.

PAST PRESIDENTS

1968/71 JOHN CHARLTON, L.V.O., M.A., F.S.A.
1984/87 PROFESSOR ROSEMARY J. CRAMP, C.B.E., M.A., B.Litt., F.S.A.
1987/90 JAMES CHERRY, B.Sc., F.S.A.
1990/93 RONALD W. BRUNSKILL, O.B.E., M.A., Ph.D., F.S.A.
1993/96 MISS BARBARA HARBOTTLE, M.A.
1996/99 JOHN M. TODD, M.A., Ph.D., F.R.Hist.S.
1999-2002 PROFESSOR G. H. MARTIN, C.B.E., M.A., D.Phil., F.R.Hist.S.

VICE-PRESIDENTS

D. J. BREEZE, B.A., Ph.D., F.S.A., F.S.A. Scot., F.R.S.E., F.R.S.A., M.I.F.A.	PROFESSOR D. C. A. SHOTTER, B.A., Ph.D., F.S.A., F.R.N.S.
MISS R. M. NEWMAN, B.A.	PROFESSOR K. J. STRINGER, M.A., Ph.D., F.S.A., F.R.Hist.S.

MEMBERS OF COUNCIL

G. BROOKS (2001)	J. R. E. BORRON (2002)	R. HALL (2003)
E. DAVIS (2001)	M. CLEMENT (2002)	MRS S. ARROWSMITH (2003)
O. J. WEAVER (2001)	J. T. MUNBY (2002)	PROFESSOR D. DEW-HUGHES
DR. R. DAVID (2004)	MRS A. HARWOOD (2004)	(2003)
DR R. NEWMAN (2004)		

HON. TREASURER

K. HORSFIELD, D.Sc., Ph.D., M.D., M.B.Ch.B., F.R.C.P.
Great Cragg, Clifford Hall, Burton in Lonsdale, Carnforth, LA6 3LW

HON. JOINT EDITORS OF TRANSACTIONS

B. C. JONES, M.A., F.S.A., The Old Vicarage, Burgh-by-Sands, Carlisle, CA5 6AW
W. G. WISEMAN, 33 Burton Road, Kendal LA9 7LJ

HON. GENERAL EDITOR

J. P. D. BALL, Heather Cottage, Kentmere Road, Staveley, Nr. Kendal, LA8 9JE

HON. NEWSLETTER EDITOR

MRS M. EDWARDS, B.A., F.E.S.B., 138 St. Thomas's Road, Preston, PR1 6AY

HON. GENERAL SECRETARY

E. A. JONES, B.A., M.A., P.I.F.A., Brantbeck, Windy Hall Road,
Bowness-on-Windermere, LA23 3HX

HON. MEMBERSHIP SECRETARY

W. D. SHANNON, 12a Carleton Avenue, Fulwood, Preston, PR2 6YA

HON. LIBRARIAN

I. D. CARUANA, M.A., 10 Peter Street, Carlisle, CA3 8QP

INDEPENDENT EXAMINER

D. H. FELL, F.C.A., INGALLS CHARTERED ACCOUNTANTS, KENDAL

COMMITTEES

RESEARCH COMMITTEE

Chairman: DR D. J. BREEZE

Secretary: J. HODGSON, L.D.N.P., Murley Moss, Oxenholme Road, Kendal, LA9 7RL
J. BORRON R. MAXWELL J. M. TODD
I. D. CARUANA P. MESSENGER DR J. TURNBULL
C. A. ELLWOOD MISS R. M. NEWMAN J. WEAVER
PRESIDENT, TREASURER, SECRETARY (ex-officio)

EDITORIAL COMMITTEE

Chairman: DR R. G. DAVID

Secretary: DR J. TURNBULL, C.N.W.R.S., Fylde College, Lancaster University, Lancaster, LA1 4YF
J. P. D. BALL R. HALL J. MUNBY
I. D. CARUANA B. C. JONES PROFESSOR K. J. STRINGER
E. DAVIS J. MARSH W. G. WISEMAN
MRS M. EDWARDS
PRESIDENT, TREASURER, SECRETARY (ex-officio)

COMMITTEE FOR INDUSTRIAL ARCHAEOLOGY

Chairman: DR R. NEWMAN

Secretary: G. BROOKS, 'Coomara', Carleton, Carlisle, CA4 0BU
M. DAVIES-SHIEL J. HODGSON J. Y. LANCASTER
J. H. A. GAVIN MISS L. J. HOPKINS A. W. H. PEARSALL
J. HELME C. IRWIN J. WIGNALL
MRS A. C. HILLMAN

ACTIVITIES COMMITTEE

Chairman: DR T. C. B. COOK

Secretary: R. S. MATTHEWS, Holly Howe, Penruddock, Penrith, CA11 0RS
MRS O. ECCLES MRS D. STEWART C. BLACKETT-ORD
MR A. HAMNETT PROFESSOR D. DEW-HUGHES
PRESIDENT, TREASURER, SECRETARY (ex-officio)

CARLISLE REGIONAL GROUP

Chairman: MRS S. I. DENCH

Secretary: MRS M. HUTCHINSON, 92 Upperby Road, Carlisle, CA2 4JL

PENRITH REGIONAL GROUP

Chairman: MR J. SMITH

Secretary: R. S. MATTHEWS, Holly Howe, Penruddock, Penrith, CA11 0RS

KENDAL REGIONAL GROUP

Chairman: MRS A. C. HILLMAN

Secretary: MR D. W. LONGMIRE, Greyhound House, Sedbergh Road, Kendal, LA9 6PF

SOUTH-WEST REGIONAL GROUP

Chairman: MRS M. COOK

Secretary: VACANT

(Membership of the Council is defined in Rules 4 and 5 of the revised Rules 1997)

FELLOWS

J. D. MARSHALL, B.Sc.(Econ.), Ph.D., F.R.Hist.S. (2000)
R. L. BELLHOUSE, B.Sc., F.S.A (2002)
R. HALL, M.A. (2002)
B. C. JONES, M.A., F.S.A. (2002)

ABBREVIATIONS

The following abbreviations are employed:

- AA1-5 *Archaeologia Aeliana*, first-fifth series (Society of Antiquaries of Newcastle upon Tyne).
- BNFC Barrow Naturalists' Field Club.
- CRO (B),(C),(K),(W) Cumbria Record Office, Barrow, Carlisle, Kendal and Whitehaven respectively.
- CW1, 2, 3 These *Transactions*, Old, New and Third Series.
- D. & G. Trans. *Transactions of the Dumfriesshire & Galloway Natural History & Antiquarian Society*.
- Hutchinson W. Hutchinson, *History of Cumberland* (1794).
- Nicolson & Burn, N. & B. Nicolson & Burn, *History of Westmorland and Cumberland* (1777).
- PSAL, PSAN, PSAScot *Proceedings of the Society of Antiquaries of London*, Newcastle upon Tyne and Scotland respectively.
- RCHM *Westmorland* Royal Commission on Historical Monuments, England, *An Inventory of the Historical Monuments in Westmorland* (1936).
- VCH *Cumberland* Victoria County History, Cumberland i (1902), and ii (1905).
- Whellan W. Whellan, *History of Cumberland and Westmorland* (1860).
-

The papers and notes in *Transactions* are refereed.

The Council of the CUMBERLAND AND WESTMORLAND ANTIQUARIAN AND ARCHAEOLOGICAL SOCIETY and the Editors of their *Transactions* desire that it should be understood that they are not responsible for any statements or opinions expressed in these *Transactions*, the authors of the several papers being alone responsible for the same.

ANTIQUARIAN CORRESPONDENCE

Enquiries may be directed to the Secretaries of the various Committees, whose addresses are given above.

Orders for all Society Publications should be sent to I. CARUANA, 10 Peter Street, Carlisle CA3 8QP.

Society website address: <http://www.cwaas.org.uk>

ISSN 0309-7986