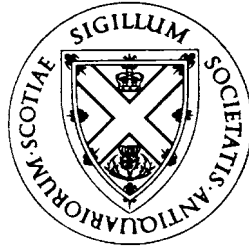


PROCEEDINGS  
of the  
Society of Antiquaries  
of Scotland



Volume 140  
(2010)

Society of Antiquaries of Scotland  
National Museums Scotland  
Chambers Street, Edinburgh

This volume has been printed on acid-free paper.

Requests for permission to reproduce material from the *Proceedings* should be sent to the Managing Editor (publications@socantscot.org), as well as to the author, illustrator, photographer or other copyright holder.

Copyright in the *Proceedings* rests with the Society and the individual authors. It is permitted, without the need for specific authorization or payment of a fee, to photocopy:

- i. single copies of individual papers or sections of the *Proceedings* for the private use of an individual;
- ii. single copies of individual papers or sections of the *Proceedings* for library reserve or short-term loan use;
- iii. multiple copies of individual papers or sections of the *Proceedings* for teaching use, provided that such copies are taken for a non-profit-making institution for educational use within that institution only.

The consent does not extend to copying for general distribution, advertising or promotional purposes, the creation of new collective works or resale.

Where indicated, maps have been based on Ordnance Survey maps by permission,  
© Crown Copyright.

The Society of Antiquaries of Scotland is a registered Scottish charity No. SC 010440

ISSN 0081–1564

Typeset by Waverley Typesetters, Warham, Norfolk  
Manufactured in Slovenia

Published November 2011

# Contents

v	LIST OF ABBREVIATIONS
vii	EDITORIAL BOARD
ix	COUNCIL
xi	PATRON AND HONORARY FELLOWS
xiii	LAWS OF THE SOCIETY OF ANTIQUARIES OF SCOTLAND
ARTICLES AND REPORTS	
1	Revisiting Quanterness: new AMS dates and stable isotope data from an Orcadian chamber tomb <b>Rick Schulting, Alison Sheridan, Rebecca Crozier and Eileen Murphy</b>
51	Dating Balbirnie: recent radiocarbon dates from the stone circle and cairn at Balbirnie, Fife, and a review of its place in the overall Balfarg/Balbirnie site sequence <b>Alex Gibson</b>
79	New light on oblong forts: excavations at Dunnideer, Aberdeenshire <b>Murray Cook</b>
93	An early Antonine fort at Mumrills <b>Geoff Bailey</b>
105	Early Historic settlement beneath the Grassmarket in Edinburgh <b>James McMeekin</b>
129	Urban morphology and medieval burgh development in Edinburgh and Elgin <b>Robin Tait</b>
145	Heraldic investigations anent early Murray genealogy <b>Dr Bruce McAndrew</b>
165	Survey and excavation at Dunstaffnage Castle, Argyll <b>Colin Breen, Wes Forsythe, John Raven and Daniel Rhodes</b>
179	Argyll's Lodgings, Stirling: recent archaeological excavations and historical analysis <b>Dennis Gallagher</b>

207	Another 18th-century reference to Arthur's Oven <b>Philip Dunshea</b>
211	ANNUAL REPORT
235	NOTES AND CONDITIONS FOR CONTRIBUTORS
243	INDEX

## List of abbreviations commonly used in the *Proceedings*

ADS	Archaeology Data Service
AIA	Association for Industrial Archaeology
ALGAO	Association of Local Government Archaeology Officers
BAR	British Archaeology Reports
CBA	Council for British Archaeology
CSA	Council for Scottish Archaeology (now Archaeology Scotland)
DES	Discovery and Excavation in Scotland
DSR	Data Structure Report
HMSO	Her Majesty's Stationery Office
IfA	Institute for Archaeologists
NMR	National Monuments Record
NMRS	National Monuments Record Scotland
NMS	National Museums Scotland
OS	Ordnance Survey
OSA	Old Statistical Account 1791–99
RCAHMS	Royal Commission on the Ancient and Historical Monuments of Scotland
SAIR	Scottish Archaeological Internet Reports
SMR	Sites and Monuments Record



# Editorial Board for the *Proceedings* vol 140

## *Editor*

ERIN OSBORNE-MARTIN, BA

## *Editorial Board*

PROFESSOR RICHARD BRADLEY, MA FI Dr hc FSA HonFSAScot FBA MifA  
PROFESSOR DAVID BREEZE, OBE BA PhD Hon DLitt FSA FRSE HonFSAScot HonIfA  
PROFESSOR MARTIN CARVER, BSc DipArchae FSA FSAScot MifA  
PROFESSOR JOHN COLLIS, MA PhD FSA MifA  
PROFESSOR GORDON COOK, BA PhD FSAScot  
PROFESSOR STEVE DRISCOLL, BA MSc PhD FSA FSAScot  
PROFESSOR KEVIN EDWARDS, MA PhD FRGS CGeog FSA FRSE FSAScot  
PROFESSOR WILLIAM GILLIES, BA MA FSAScot  
PROFESSOR DENNIS HARDING, MA DPhil FRSE FSAScot  
ISABEL HENDERSON, OBE MA PhD HonFSAScot  
JOHN HUME, BSc ARCST PhD FSAScot  
PROFESSOR TIM INGOLD, PhD FBA FRSE FSAScot  
PROFESSOR MICHAEL LYNCH, MA PhD FRHistS FRSE FSAScot  
PROFESSOR RICHARD ORAM, MA PhD FSA FSAScot  
PROFESSOR IAN RALSTON, OBE MA PhD FSA FRSE FSAScot MifA  
ANNA RITCHIE, OBE BA PhD FSA HonFSAScot  
ALAN SAVILLE, BA FSA FSAScot MifA  
ALISON SHERIDAN, BA MA PhD FSA FSAScot AIfA  
JIM TATE, BSc PhD MinstP FSAScot

## *Indexer*

ANNE MCCARTHY

## *Publications Production Managers*

LAWRIE LAW

ALISON RAE

## *Office Manager*

JACQUI CLABBY, BA

## *Publications and Sales Administrator*

VASILIKI KOUTRAFOURI, MA(Hons) PhD





# Society of Antiquaries of Scotland Council from 1 December 2009

## *President*

BARBARA CRAWFORD, MA PhD FSA FRSE

## *Vice-Presidents*

IAN RALSTON, OBE MA PhD FRSE FSA MifA

GEORGE DALGLEISH, MA

LESLEY FERGUSON, MA

## *Treasurer*

BRENDAN O'CONNOR, BA DPhil FSA

## *Councillors*

IAIN BANKS, MA(Hons) PhD MifA

ALAN BRABY

SHANNON M FRASER, MA Dip.Post-Ex. PhD MifA

RONAN TOOLIS, MA(Hons) MifA

STEPHEN CARTER, BSc PhD MifA

MALCOLM COOPER, BA MPhil DMS FSA FRSA MifA

DEREK HALL, Cert.Pract.Arch MifA

STRATFORD HALLIDAY, BSc

GORDON NOBLE, BA AIfA

JULIE GIBSON, BA AIfA

STEPHEN HOLMES, MA BD PGCE

NYREE FINLAY, MA PhD MifA

## *Ex Officio Members of Council*

Chairman of the North-East Section

CHRIS CROLY

Convener of the Publications Committee

DAVID P BOWLER, BA MPhil MifA

Convener of the Research Committee

SHANNON FRASER, MA Dip.Post-Ex. PhD MifA

Convener of the Fellowship Committee

GEORGE DALGLEISH, MA

Representative of the National Museums  
of Scotland

FRASER HUNTER, BSc PhD FSA

## *Director*

SIMON GILMOUR, MA(Hons) PhD FSA MifA



# Patron and Honorary Fellows of the Society of Antiquaries of Scotland

## *Patron*

HM THE QUEEN

## *Honorary Fellows*

HRH THE DUKE OF ROTHESAY

DR ROBERT GEOFFREY WILLIAM ANDERSON, BSC MA DPhil FSA FRSE FRSCChem

PROFESSOR EMERITUS GEOFFREY W S BARROW, MA BLitt DLitt FSA FBA FRSE

PROFESSOR RICHARD BRADLEY, MA FSA FI Dr hc FBA MifA

PROFESSOR DAVID BREEZE, OBE BA PhD Hon DLitt FSA FRSE HonIfA

AUBREY BURL, MA DLitt PhD FSA

ARKITEKT HAKON CHRISTIE

PROFESSOR EMERITUS JOHN COLES, MA PhD ScD FSA FBA FIDhc FRSA HonMifA HonMRIA

PROFESSOR EMERITUS ROSEMARY CRAMP, CBE MA BLitt FSA FBA

JOHN GREENWELL DUNBAR, OBE MA FSA HonFRIAS

PROFESSOR EMERITUS GEORGE EOGAN, BA PhD DLitt LittD FSA MRIA

PROFESSOR EMERITUS ALEXANDER FENTON, CBE MA BA DLitt HonDLitt FSA FRSE HRSA

ISABEL HENDERSON, OBE MA PhD

MISS AUDREY SHORE HENSHALL, OBE MA FSA

PROFESSOR EMERITUS DR LEENDERT P LOUWE KOOIJMANS

PROFESSOR KRISTIAN KRISTIANSEN

PROFESSOR KLAVS RANDSBORG

PROFESSOR EMERITUS COLIN RENFREW (Lord Renfrew of Kaimsthorn), BA MA PhD ScD HonDLitt  
FSA FBA

DR ANNA RITCHIE, OBE BA PhD FSA

PROFESSOR EMERITUS CHARLES THOMAS, CBE DL DLitt HonDLitt FSA FBA HonMRIA

PROFESSOR EMERITUS J D VAN DER WAALS

PROFESSOR EMERITUS DR WILLY GROENMAN-VAN WAATERINGE



# Laws of the Society of Antiquaries of Scotland, instituted 18 December 1780 and incorporated by Royal Charter, 6 May 1783

1. The purpose of the Society shall be the study of the ANTIQUITIES AND HISTORY OF SCOTLAND, more especially by means of Archaeological Research.
2. The Society shall consist of Fellows and Honorary Fellows.
3. Candidates for admission as Fellows must sign the Form of Application prescribed by the Council, and must be sponsored by two Fellows. Admission shall be by ballot. In the case of candidates not able to obtain two sponsor Fellows, it shall be open to the Council after consideration of the circumstances and credentials of the candidate concerned, to waive the necessity for two sponsors from among the Fellowship.
4. Council shall cause the names of the Candidates and their Sponsors to be circulated to all Fellows at least 10 days before the date of the meeting at which a ballot is to be held. Fellows may vote against any candidate by striking out the name from the list and returning the list to the Society before the meeting or placing the list in the Ballot Box before the meeting commences. Candidates receiving 10 or more adverse votes will be balloted for individually at the meeting, and any candidate then receiving less than two-thirds of the votes shall not be admitted.
5. Honorary Fellows shall consist of persons eminent in any branch of antiquarian study, who must be recommended by the Council and elected in the same way as Fellows; they shall not be liable for any fee for admission or annual subscription. The number of Honorary Fellows shall not exceed 25.
6. Corresponding Members must be recommended by the Council and elected in the same way as Fellows. They shall not be liable for a fee for admission or annual subscription. This Law is now repealed.
7. Before the name of a newly elected candidate is added to the list of Fellows, he or she shall pay to the funds of the Society an entrance fee and the current year's subscription as provided for by Law 8.
8. Rates of entrance fee and annual subscription shall be determined by the Council as required from time to time subject to the approval of the Society given at a General Meeting. The annual subscription shall become due on 1 July in each year for that year then beginning; and if any Fellow who has not compounded shall fail to pay the subscription for one year, due application having been made for payment, the Treasurer shall report the same to Council, by whose authority the name of the defaulter may be erased from the List of Fellows. Fellows whose membership has lapsed, and who wish to rejoin the Society, may do so either (1) by payment of all arrears of subscription – in which case they shall receive the relative volumes of the Proceedings, if still available – or (2) on payment of the subscription for the current year and of the entrance fee.
9. Every Fellow not being in arrears of the annual subscription shall be entitled to receive the printed Proceedings of the Society from the date of election.

10. None but Fellows shall vote or hold any office in the Society.
11. Subject to the Laws and to the control of the Society in General Meetings, the affairs of the Society shall be managed by a Council elected and appointed as hereinafter set forth. Five members of the Council shall constitute a quorum, provided that number includes one Office-bearer and one elected member of Council.
12. The Office-bearers shall consist of a President, three Vice-Presidents and a Treasurer. The President and the Vice-Presidents shall be elected for a period of three years. One of the Vice-Presidents shall retire annually by rotation, and shall not be eligible for re-election to the same office until one year has elapsed. The Treasurer shall be elected for one year and shall be eligible for re-election. The elections shall be by ballot at the Annual General Meetings upon a list issued by the Council for that purpose to the Fellows at least 14 days before the meeting.
13. The Council shall consist of the Office-bearers, 12 Fellows elected by the Society, the Chairman of the North East Section, the Conveners of the various Committees appointed by Council as provided for in Law 15, if not already elected members, and the Society representative of the National Museums Scotland (NMS) who is already a Fellow of the Society (nominated by the NMS Board of Trustees).
14. Four of the 12 elected members of Council shall retire annually by rotation, and shall not be eligible for re-election as ordinary members of Council until one year has elapsed. Vacancies among the elected members of Council and Office-bearers occurring by completion of term of office, by retirement on rotation, by resignation, death or otherwise, shall be filled by election at the Annual General Meeting, or, in the case of the Treasurer, at any earlier meeting of the Society as decided by the Council. The election shall be by ballot, as provided for by Law 12.
15. The Council may appoint committees or individuals to advise on or to take charge of particular departments of the Society's business. Individuals who are not Fellows and Fellows who are not members of the Council shall be eligible for these duties.
16. The Annual General Meeting of the Society shall take place on St Andrew's Day, 30 November, or on the following day if the 30th be a Sunday. The business of the Annual General Meeting shall be notified to Fellows at least 14 days before the day of the meeting.
17. The Council shall have the power to call Extraordinary General Meetings when they see cause. At least 14 days' notice of an Extraordinary General Meeting shall be given to Fellows.
18. Meetings of the Society, termed Ordinary Meetings, shall be held on such dates and at such places as may be determined by the Council. A minimum of six meetings, in addition to the Annual General Meeting provided for in Law 16, shall be held in each year.
19. Every proposal for altering the Laws must be made through the Council, which shall cause intimation thereof to be made to all the Fellows at least 30 days before the General Meeting at which it is to be determined on.