

A Quarterly Review of Archaeology

Edited by Martin Carver



ANTIQUITY

December 2004

Volume 78 Number 302

Research

*The early development of music:
analysis of the Jiabu Bone Flutes*

*Power, place and axes in the
American Bottom*

*Early agriculture in highland New
Guinea*

Eighteenth century dentures

On the Web

Geophysics at Bohemian oppida

Neolithic excavations in Jordan

A Welsh gold disc from the Copper Age

Iran: new Lower Palaeolithic discoveries

Method

Mapping roads at Tel el-Amarna

Wearing out the Hebrides

Satellites over Harappa

Debate

David Wilson looks back

Antiquity is a quarterly peer-reviewed journal which aims to present new research, methods and matters of general professional and public interest accessibly to the extended family of modern archaeology.

The *Antiquity* website carries news, views and information about research in progress, as well as indices of previous editions. Find us on <http://antiquity.ac.uk>

Antiquity, was founded in 1927 by O.G.S. Crawford and is owned by the Antiquity Trust, a registered charity.

The Trustees of The Antiquity Trust are: Warwick Bray, John Coles, Barry Cunliffe, Anthony Harding, Paul Mellars, Lord Renfrew, Stephen Shennan and Sir David Wilson.

The Directors of Antiquity Publications Ltd, owned by the Antiquity Trust and responsible for producing *Antiquity* are: Joan Oates, Andrew Rogerson, Andrew Sherratt, Richard Skaer, Anthony Snodgrass, Martin Millett and Roger Guthrie.

Antiquity is hosted by the Department of Archaeology, University of York (Head: Jane Grenville).

Editor:

Professor Martin Carver

Managing Editor:

Kate Wescombe

Website Manager:

Emily Smyth

Editorial address:

Antiquity, King's Manor,

York YO1 7EP

Tel/Fax: (44) (0) 1904 433994

Website: <http://antiquity.ac.uk>

Email: editor@antiquity.ac.uk

Reviews Editor:

Dr Nicholas James

c/o Department of Archaeology,
Downing Street, Cambridge

CB2 3DZ

Email: nj218@cam.ac.uk

Advertising enquiries to:

Emily Smyth

Antiquity, King's Manor,

York YO1 7EP

Tel: (44) (0) 1904 433994

Design:

Barry Perks www.yo-yo.uk.com

Page make-up and printed by:

York Publishing Services Ltd

www.yps-publishing.co.uk

© Antiquity Publications 2004.
All rights reserved; no part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without either the prior written permission of the Publishers or a license permitting restricted copying issued in the UK by the Copyright Licensing Agency Ltd, 90 Tottenham Court Road, London W1P 9JP or in the USA by the Copyright Clearance Center, 27 Congress Street, Salem, MA 01970, USA.

Correspondents

AFRICA

Peter Mitchell peter.mitchell@st-hughs.ox.ac.uk, University of Oxford, UK

Fekri Hassan fekrihassan@hotmail.com, Institute of Archaeology, London, UK

Susan McIntosh skmci@rice.edu, Rice University, USA

George Abungu abungu@hotmail.com, National Museums of Kenya, Nairobi, Kenya

ASIA

Gina Barnes gina.barnes@durham.ac.uk, University of Durham, UK

Gamini Wijesuriya gwiwesuriya@doc.govt.nz, Department of Archaeology,

Sir Marcus Fernando Mawatha, Sri Lanka

Charles Higham charles.higham@stonebow.otago.ac.nz, University of Otago, New Zealand

AUSTRALASIA

Claire Smith claire.smith@flinders.edu.au, Flinders University, South Australia

Des Kahotea dkahotea@ihug.co.nz, Waikoto University, New Zealand

Christophe Sand sand.smp.@gouv.nc, Service des Musées, Noumea, New Caledonia

CRM

Laurajane Smith ls18@york.ac.uk, University of York, UK

Jane Grenville jcg2@york.ac.uk, University of York, UK

EUROPE

Paul Bahn pgbahn@anlabtyrd.karoo.co.uk

Margarita Diaz-Andreu m.diaz-andreu@durham.ac.uk, University of Durham, UK

Andrew Sherratt andrew.sherratt@ashmus.ox.ac.uk, University of Oxford, UK

Richard Hodges r.hodges@uea.ac.uk, University of East Anglia, UK

John Chapman j.c.chapman@durham.ac.uk, University of Durham, UK

INFORMATION SCIENCE

Julian Richards jdr1@york.ac.uk, University of York, UK

JAPAN

Simon Kaner s.kaner@uea.ac.uk, University of East Anglia, UK

NORTH AMERICA

Doug Kennett dkennett@oregon.uoregon.edu, University of Oregon, USA

Bill Boyd bboyd@scu.edu.au, Southern Cross University, Australia

PALAEOECOLOGY

Terry O'Connor tpoc1@york.ac.uk, University of York, UK

Don Brothwell University of York, UK

RUSSIA

Ludmila Koryakova ludmila.koryakova@usu.ru, Ural State University, Russia

SOUTH AMERICA

Steve Houston stephen_houston@brown.edu, Brown University, USA

Alejandro Haber afhaber@ciudad.com.ar, Universidad Nacional de Catamarca, Argentina

THEORY

Matthew Johnson m.h.johnson@durham.ac.uk, University of Durham, UK

ANTIQUITY

Volume 78

Number 302

December 2004

Editorial	765
Research	
The early development of music. Analysis of the Jiahu bone flutes	769
Juzhong Zhang, Xinghua Xiao & Yun Kuen Lee	
The making and meaning of a Mississippian axe-head cache	779
Timothy R. Pauketat & Susan M. Alt	
An unfinished temple at the Classic Maya centre of Aguateca, Guatemala	798
Takeshi Inomata, Erick Ponciano, Oswaldo Chinchilla, Otto Román, Véronique Breuil-Martínez & Oscar Santos	
Power and place: Agency, ecology, and history in the American Bottom, Illinois	812
Sissel Schroeder	
Vegetation disturbance and human population in Colombia – a regional reconstruction	828
Robert Marchant, Hermann Behling, Juan Carlos Berrio, Henry Hooghiemstra, Bas van Geel, Thomas van der Hammen, Luisa Herrera, Bert Melief, Guido van Reenen & Michael Wille	
New evidence and revised interpretations of early agriculture in Highland New Guinea	839
Tim Denham, Simon Haberle & Carol Lentfer	
An early eighteenth-century denture from Rochester, Kent, England	858
T. Anderson, S. O'Connor & A.R. Ogden	
Reassessing the chronology of Biblical Edom: new excavations and ¹⁴C dates from Khirbat en-Nahas (Jordan)	865
Thomas E. Levy, Russell B. Adams, Mohammad Najjar, Andreas Hauptmann, James D. Anderson, Baruch Brandl, Mark A. Robinson & Thomas Higham	
Method	
Ancient roads and GPS survey: modelling the Amarna Plain	880
Helen Fenwick	
Neolithic land-use and environmental degradation: a study from the Western Isles of Scotland	886
Coralie M Mills, Ian Armit, Kevin J Edwards, Pamela Grinter & Ymke Mulder	
Palaeogeography around the Harappan port of Lothal, Gujarat, western India	896
A.S. Khadkikar, C. Rajshekhar & K.P.N. Kumaran	
Debate	
Retrospect	904
David M. Wilson	

Exhibitions: exotica and exigencies 914
N. James

Reviews

Review articles

Hunter-gatherers 'on the move'? CHANTAL CONNELLER reviewing 916

Mesolithic on the move: papers presented at the 6th International Conference on the Mesolithic in Europe, Stockholm 2000

Lars Larsson, Hans Kindgren, Kjell Knutsson, David Loeffler & Agneta Åkerlund (ed.)

Les camps mésolithiques du Tillet: analyses typologique, typométrique, structurelle et spatiale (Société Préhistorique Française Travaux 2)

Colette & Jean-Georges Rozoy

Le site mésolithique des Baraquettes (Velzic, Cantal) et le peuplement de la moyenne montagne cantalienne, des origines à la fin du Mésolithique (Société Préhistorique Française Memoire 32)
Frédéric Surmely (ed.)

Campements mésolithiques en Bresse jurassienne: Choisey et Ruffey-sur-Seille
FRÉDÉRIC SÉARA, SYLVAIN ROTILLON & CHRISTOPHE CUPILLARD (ed.)

The Greek Mesolithic: problems and perspectives
Nena Galanidou & Catherine Perlès (ed.)

Beyond foraging and collecting: evolutionary change in hunter-gatherer systems
Ben Fitzhugh & Junko Habu (ed.)

Minoans emerging GERALD CADOGAN reviewing 923

The Late Minoan IIIB:2 settlement (The Greek-Swedish Excavations at the Agia Aikaterini Square, Kastelli, Khania, 1970-87 and 2001: results of the excavations under the direction of Yannis Tzedakis & Carl-Gustaf Styrenius Vol. 3) (2 volumes; Skrifter Utgivna av Svenska Institutet i Athen 4° 47:3:1)

Erik Hallager & Birgitta P. Hallager (ed.)

Knossos: the South House (British School at Athens Supplementary Vol. 34)
P.A. Mountjoy with B. Burke, K.S. Christakis, J.M. Driessen, R.D.G. Evely, C. Knappett & O.H. Krzyszkowska

The Pseira cemetery I: the surface survey (Pseira VI)
Philip P. Betancourt & Costis Davaras (ed.)

The Pseira cemetery 2: excavation of the tombs (Pseira VII)
Philip P. Betancourt & Costis Davaras (ed.)

Burial in late prehistoric France MADELEINE HUMMLER reviewing 927

Nécropoles protohistoriques de la région de Castres (Tarn): Le Causse, Gourjade, Le Martinet (Documents d'archéologie française Vol. 94)

Jean-Pierre Giraud, Fabrice Pons & Thierry Janin (ed.)

Pratiques funéraires et sociétés de l'âge du Fer dans le Bassin parisien (fin du VII^e s. – troisième quart du II^e s. avant J.-C.) (56th Gallia Suppl.)

Luc Baray

- Ancient uses of the past** POLLY LOW reviewing 930
The archaeology of nostalgia: how the Greeks re-created their mythical past
 John Boardman
Archaeologies of the Greek past: landscape, monuments, and memories
 Susan E. Alcock
Archaeologies of memory
 Ruth M. van Dyke & Susan E. Alcock (ed.)
- From 'questions that count' to stories that 'matter' in Historical Archaeology**
 DAN HICKS reviewing 934
*An archaeological study of rural capitalism and material life: the Gibbs farmstead in southern
 Appalachia, 1790-1920*
 Mark D. Groover
*Rural society in the Age of Reason: an archaeology of the emergence of Modern life in the
 southern Scottish Highlands*
 Chris Dalglish
Archaeologies of the British: explorations of identity in Great Britain and its colonies, 1600-1945
 Susan Lawrence (ed.)
- Early state and civilization** K.E. SPENCE reviewing 939
Understanding early civilizations: a comparative study
 Bruce G. Trigger
The political landscape: constellations of authority in early complex polities
 Adam T. Smith
Archaeologies of complexity
 Robert Chapman
Ancient cities: the archaeology of urban life in the ancient Near East and Egypt, Greece, and Rome
 Charles Gates
- Book reviews**
- Sarunas Milisauskas (ed.). *European prehistory: a survey* NICK THORPE 944
 Vladimír Podborský (ed.). *Dve pohřebišťev Neolitického lidu s Lineární Keramikou ve
 Vedrovicích na Moravev* (Two cemeteries of Neolithic peoples with Linearbandkeramik
 at Vedrovice, Moravia). MAREK ZVELEBIL & ALENA LUKES 945
 Ann Woodward. *British barrows: a matter of life and death*. NICK THORPE 947
 Richard Reece. *The coinage of Roman Britain*. ROGER BLAND 948
 Brian K. Roberts & Stuart Wrathmell. *Region and place: a study of English rural
 settlement*. TOM WILLIAMSON 949
 Maria Grazia Masetti-Rouault. *Cultures locales du moyen-Euphrate: modèles et événements,
 IIè-Ier mill. av. J.-C* (Subartu 8). TREVOR WATKINS 951
 Dale A. Olsen. *Music of El Dorado: the ethnomusicology of ancient South American cultures*.
 REBECCA STONE-MILLER 952
 Christopher B. Donnan. *Moche portraits from ancient Peru*. GARTH BAWDEN 953

Charles French. <i>Geoarchaeology in action: studies in soil morphology and landscape evolution</i> . MARTIN BELL	955
Erika E.S. Evasdottir. <i>Obedient autonomy: Chinese intellectuals and the achievement of orderly life</i> . GREGOR BENTON	956
Among the New Books	
N. James with Stephanie Wynne-Jones	959

Index	984
--------------	------------

On the website (<http://antiquity.ac.uk/ProjGall/projindex.html>)

Excavations at a Late Neolithic site in Wadi Ziqlab, northern Jordan E.B. Banning, Kevin Gibbs, Michael Gregg, Seui Kadowaki & Lisa Maher	
Ganj Par: the first evidence for Lower Palaeolithic occupation in the Southern Caspian Basin, Iran Fereidoun Biglari, Saman Heydari & Sonia Shidrang	
The development of economy and environment from the Bronze Age to the early Iron Age in northern Syria and the Levant: A case-study from the Upper Khabur Region Katleen Deckers & Simone Riehl	
Geophysical survey in the archaeologically uninvestigated parts of Czech <i>oppida</i> Roman Křivanek	
Combating the destruction of Ethiopia's archaeological heritage ... continued Jacke Phillips & Tekle Hagos with Asfaw Arefaine, Sheila Boardman, Chester Cain, Mark Dover & Michael Harlow	
A Copper Age/early Bronze Age gold disc from Banc Tynddol (Peneguelan, Cwmystwyth Mines, Ceredigion, Wales) Simon Timberlake, Adam Gwilt & Mary Davis	
Archaeological investigation of Prehispanic Maya residential terraces, commoner housing, and hydrology at Chawak But'o'ob, Belize Stanley Walling	