



ANTIQUITY

www.antiquity.ac.uk Volume 87 • Number 335 • March 2013

A QUARTERLY REVIEW OF
WORLD ARCHAEOLOGY

EDITED BY CHRIS SCARRE



Antiquity is an international peer-reviewed journal of archaeological research that aims to communicate the most significant new discoveries, theory, method and cultural resource issues rapidly and in plain language to practicing archaeologists everywhere.

The *Antiquity* website provides access to all the articles published in *Antiquity* since 1927, together with the Project Gallery, a free access addition to the journal providing news on ongoing projects from around the world. Find us at <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 **Graeme Barker, Warwick Bray, John Coles, Barry Cunliffe, Chris Gosden, Anthony Harding, Paul Mellars, Martin Millett, Colin Renfrew and Stephen Shennan.**

The Directors of Antiquity Publications Ltd., owned by the Antiquity Trust and responsible for producing *Antiquity*, are **Chris Evans, Martin Millett, Nicky Milner, Cameron Petrie, Mike Pitts, Andrew Rogerson and Chris Scarre.**

Antiquity is edited at the Department of Archaeology, Durham University, UK (Head: Chris Scarre).

Antiquity is published quarterly in March, June, September and December.

Editor:

Chris Scarre

Editorial Manager:

Jo Dean

Reviews Editor:

Robert Witcher

Editorial address:

**Antiquity, Dept. of Archaeology,
Durham University, South Road,
Durham DH1 3LE, UK**

Tel: +44 (0) 191 3341125

Fax: +44 (0) 191 3341101

Email: editor@antiquity.ac.uk

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

Advertising enquiries to:

Jo Dean

(assistant@antiquity.ac.uk)

Design:

Barry Perks (www.yo-yo.uk.com)

Production management by:

Portland Press Limited

Composition by:

Aptara Inc., New Delhi, India

Printed by:

Charlesworth Press, Wakefield

Editorial Advisory Board

Sarah Allan sarah.allan@dartmouth.edu, Dartmouth University, USA

Peter Bellwood peter.bellwood@anu.edu.au, The Australian National University, Australia

Xingcan Chen chen.xingcan10@gmail.com, Chinese Academy of Social Sciences, China

Francesco D'Errico francesco.d-errico@pacea.u-bordeaux1.fr, Université Bordeaux 1, France

Eduardo Goés Neves edgneves@usp.br, Universidade de São Paulo, Brazil

Elizabeth Graham e.graham@ucl.ac.uk, University College London, UK

Christine Hastorf hastorf@berkeley.edu, University of California Berkeley, USA

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

Augustin Holl augustin.holl@mae.u-paris10.fr, Université de Paris Ouest Nanterre la Défense, France

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

Timothy Insoll tim.insoll@manchester.ac.uk, University of Manchester, UK

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

Ian Kuijt ian.kuijt.1@nd.edu, University of Notre Dame, USA

Kevin Lane kevin.lane@cantab.net, University of Cambridge, UK

Li Liu liliu@stanford.edu, Stanford University, USA

Naoko Matsumoto naoko_m@cc.okayama-u.ac.jp, Okayama University, Japan

Barbara Mills bmills@arizona.edu, University of Arizona, USA

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

Timothy Pauketat pauketat@illinois.edu, University of Illinois, USA

Victor Paz victor.paz@up.edu.ph, University of the Philippines, the Philippines

Susan Pollock s.pollock@fu-berlin.de, Freie Universität, Germany

Natalia Shishlina nshishlina@mail.ru, State Historical Museum, Russia

Benjamin Smith bws@rockart.wits.ac.za, University of the Witwatersrand, South Africa

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

Melinda Zeder zederm@si.edu, National Museum of Natural History, Smithsonian Institution, USA

© Antiquity Publications 2013.

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.

Periodicals Postage Paid at Rahway, NJ.

US agent: Mercury International, 365 Blair Road, Avenel, NJ 07001.

Postmaster: Address changes to *Antiquity*, Mercury International, 365 Blair Road, Avenel, NJ 07001.

ANTIQUITY

Volume 87

Number 335

March 2013

Editorial	5
Research	
The social construction of caves and rockshelters: Chauvet Cave (France) and Nawarla Gabarnmang (Australia)	12
Jean-Jacques Delannoy, Bruno David, Jean-Michel Geneste, Margaret Katherine, Bryce Barker, Ray L. Whear & Robert G. Gunn	
The lowest levels at Dikili Tash, northern Greece: a missing link in the Early Neolithic of Europe	30
Laurent Lespez, Zoï Tsirtsoni, Pascal Darcque, Haïdo Koukouli-Chryssanthaki, Dimitra Malamidou, René Treuil, Robert Davidson, Georgia Kourtessi-Philippakis & Christine Oberlin	
Jiahu 1: earliest farmers beyond the Yangtze River	46
Zhang Chi & Hsiao-chun Hung	
Life, death and beyond in Akhenaten's Egypt: excavating the South Tombs Cemetery at Amarna	64
Barry Kemp, Anna Stevens, Gretchen R. Dabbs, Melissa Zabecki & Jerome C. Rose	
Edges of bronze and expressions of masculinity: the emergence of a warrior class at Kerma in Sudan	79
Henriette Hafsaas-Tsakos	
Soundscapes and community organisation in ancient Peru: plaza architecture at the Early Horizon centre of Caylán	92
Matthew Helmer & David Chicoine	
An early date for cattle from Namaqualand, South Africa: implications for the origins of herding in southern Africa	108
Jayson Orton, Peter Mitchell, Richard Klein, Teresa Steele & K. Ann Horsburgh	
Cultural hybridity and social status: elite tombs on China's Northern Frontier during the third century BC	121
Xiaolong Wu	
Stable isotopes and diet: their contribution to Romano-British research	137
Gundula Müldner	
Feasting in Viking Age Iceland: sustaining a chiefly political economy in a marginal environment	150
Davide Zori, Jesse Byock, Egill Erlendsson, Steve Martin, Thomas Wake & Kevin J. Edwards	
A four-tier approach to the protection of cultural property in the event of armed conflict	166
Peter G. Stone	

Method

- Illuminating the Late Mesolithic: residue analysis of ‘blubber’ lamps from Northern Europe** 178
Carl Heron, Søren Andersen, Anders Fischer, Aikaterini Glykou, Sönke Hartz, Hayley Saul, Val Steele & Oliver Craig
- Luminescence dating of brick stupas: an application to the hinterland of Anuradhapura, Sri Lanka** 189
Ian K. Bailiff, Harriet R. Lacey, Robin A.E. Coningham, Prishanta Gunawardhana, Gamini Adikari, Chris E. Davis, Mark J. Manuel & Keir M. Strickland
- Burial mounds and settlement patterns: a quantitative approach to their identification from the air and interpretation** 202
Ioana A. Oltean
- Airborne spectral imagery for archaeological prospection in grassland environments—an evaluation of performance** 220
Rebecca Bennett, Kate Welham, Ross A. Hill & Andrew Ford

Debate

- Lost and found: the remarkable curatorial history of one of the earliest discoveries of Palaeolithic portable art** 237
S.M. Bello, G. Delbarre, S.A. Parfitt, A.P. Carrant, R. Kruszynski & C.B. Stringer
- Modern political views and the emergence of early complex societies in the Bronze Age Mediterranean** 245
Borja Legarra Herrero
- Early farming in Island Southeast Asia: an alternative hypothesis** 250
Tim Denham
- The Great East Japan Earthquake and cultural heritage: towards an archaeology of disaster** 258
Katsuyuki Okamura, Atsushi Fujisawa, Yasuhisa Kondo, Yu Fujimoto, Tomokatsu Uozu, Yumiko Ogawa, Simon Kaner & Koji Mizoguchi
- Resource and interpretation** 270
N. James

Reviews

Review articles

- Egyptian archaeology and Egyptology: help at hand** KATE SPENCE reviewing 277
Egyptian archaeology Willeke Wendrich (ed.)
A history of ancient Egypt Marc Van De Mieroop
A companion to ancient Egypt Alan B. Lloyd (ed.)
- A Celtic cornucopia** VINCENT MEGAW reviewing 280
How ancient Europeans saw the world: visions, patterns, and the shaping of the mind in prehistoric times Peter S. Wells
The Eastern Celts: the communities between the Alps and the Black Sea Mitja Guštin & Miloš Jevtić (ed.)
Kelten! Kelten? Keltische Spuren in Italien Martin Schönfelder (ed.)

Die Welt der Kelten: Zentren der Macht–Kostbarkeiten der Kunst Ralph Röber (ed.)

Book reviews

- Nerissa Russell *Social zooarchaeology: humans and animals in prehistory* NAOMI SYKES 285
- Klaus Ebbesen *Danmarks megalitgrave, volume 1* JAN ALBERT BAKKER 286
- Ann Woodward & John Hunter with David Bukach, Fiona Roe, Peter Webb, Rob Ixer, John Watson & Phil Potts *An examination of prehistoric stone bracers from Britain* JOHN COLES 287
- Mike Parker Pearson (ed.) *From machair to mountains: archaeological survey and excavation in South Uist* JANE DOWNES 289
- Niall Sharples (ed.) *A Late Iron Age farmstead in the Outer Hebrides: excavations at Mound 1, Bornais, South Uist* JON HENDERSON 290
- Ian Armit *Headhunting and the body in Iron Age Europe* KATHARINA REBAY-SALISBURY 292
- John Bintliff *The complete archaeology of Greece: from hunter-gatherers to the 20th century A.D.* SOULTANA-MARIA VALAMOTI 293
- Charalambos Bouras, Maria Ioannidou & Ian Jenkins (ed.) *Acropolis restored* ANTHONY SNODGRASS 295
- Marijke van der Veen *Consumption, trade and innovation: exploring the botanical remains from the Roman and Islamic ports at Quseir al-Qadim, Egypt* ANNA MARIA MERCURI 296
- Sauro Gelichi & Richard Hodges (ed.) *From one sea to another: trading places in the European and Mediterranean Early Middle Ages (Proceedings of the International Conference, Comacchio 27th–29th March 2009)* MARTIN CARVER 297
- Susan Kepecs, L. Antonio Curet & Gabino La Rosa Corzo (ed.) *Beyond the blockade: new currents in Cuban archaeology* JOSÉ R. OLIVER 298
- Tom D. Dillehay (ed.) *From foraging to farming in the Andes: new perspectives on food production and social organization* DAVID BERESFORD-JONES 300
- George F. Lau *Andean expressions: art and archaeology of the Recuay culture* REBECCA E. BRIA 301
- Anne-Valérie Schweyer, photographs by Paisarn Piemmettawat *Ancient Vietnam: history, art and archaeology* MARIKO YAMAGATA 303
- Michael Shanks *The archaeological imagination* STEPHEN DANIELS 304
- New Book Chronicle** 306
- Madeleine Hummler

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

Morphometric analysis of Early Pleistocene African hominin crania in the context of a statistical (probabilistic) definition of a species

J. Francis Thackeray & E. Odes

New methodologies for the recovery of human behaviour through the evolution of hominid-carnivore interaction during the Pleistocene

Edgard Camarós & Marián Cueto

A Late Palaeolithic site at Ouriakos (Limnos, Greece) in the north-eastern Aegean

Nikos Efstratiou, Paolo Biagi, Panagiotis Karkanas & Elisabetta Starnini

At the core of it: a Late Palaeolithic workshop, Wadi Kubbaniya, Upper Egypt
Kimball Banks & J. Signe Snortland

The 2012 Petra cyber-archaeology cultural conservation expedition: Temple of the Winged Lions and environs, Jordan
Thomas Levy, Christopher A. Tuttle, Matthew L. Vincent, Matthew Howland, Ashley M. Richter, Vid Petrovic & David Vanoni

Shamshirgah and Sialk: bricks with impressions
Reza Naseri