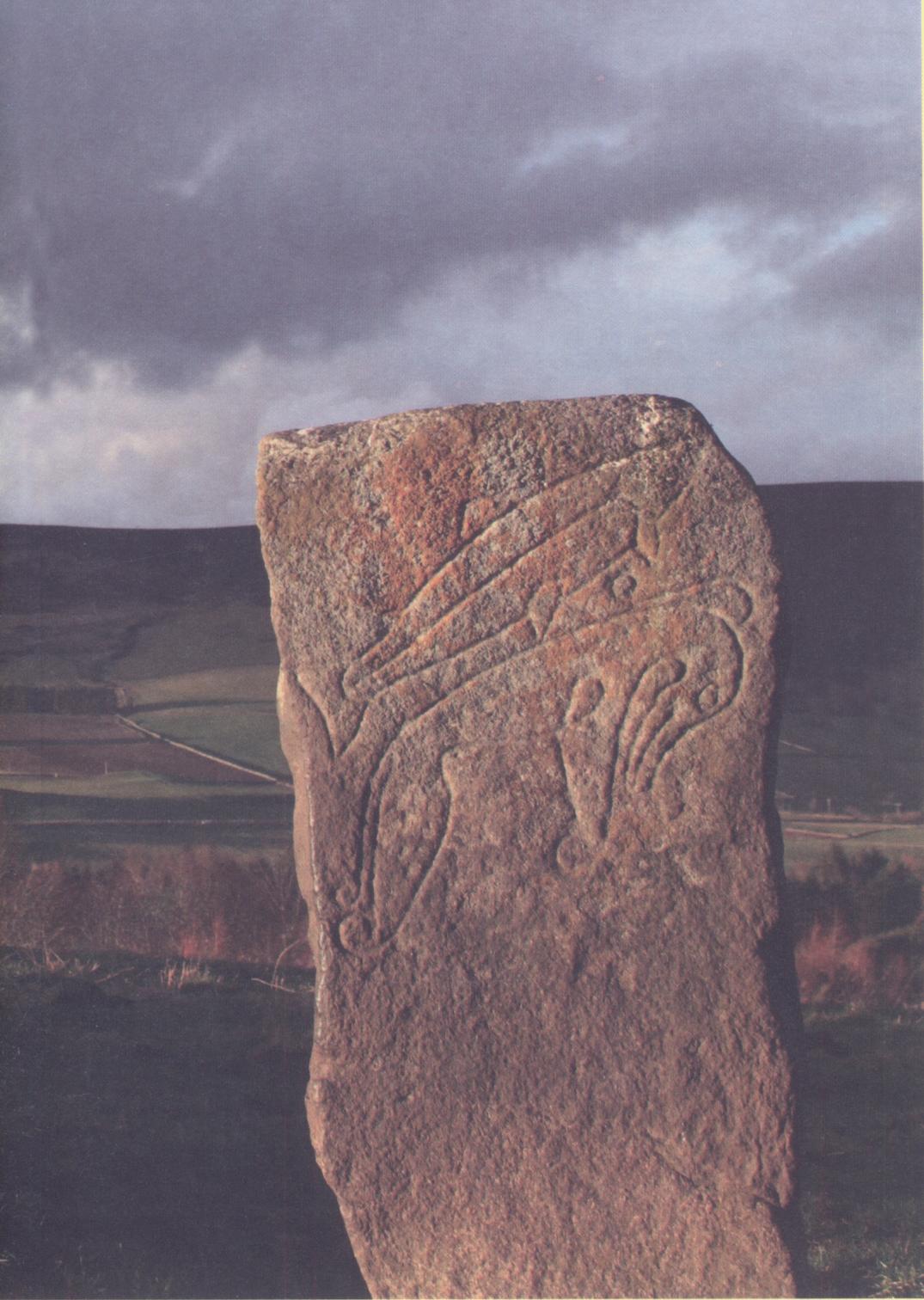


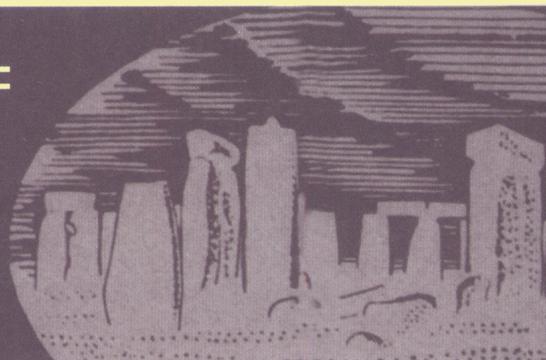
# ANTIQUITY



[www.antiquity.ac.uk](http://www.antiquity.ac.uk) Volume 87 • Number 338 • December 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, Robin Coningham, Barry Cunliffe, Chris Gosden, Anthony Harding, Paul Mellars, Martin Millett, Nicky Milner, Cameron Petrie, Colin Renfrew and Stephen Shennan.**

The Directors of Antiquity Publications Ltd., owned by the Antiquity Trust and responsible for producing *Antiquity*, are **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 Gerrard). *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](mailto:editor@antiquity.ac.uk)

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

Advertising enquiries to:

**Jo Dean**

([assistant@antiquity.ac.uk](mailto: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**

© 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.

## Editorial Advisory Board

**Sarah Allan** [sarah.allan@dartmouth.edu](mailto:sarah.allan@dartmouth.edu), Dartmouth University, USA

**Peter Bellwood** [peter.bellwood@anu.edu.au](mailto:peter.bellwood@anu.edu.au), The Australian National University, Australia

**Xingcan Chen** [chen.xingcan10@gmail.com](mailto:chen.xingcan10@gmail.com), Chinese Academy of Social Sciences, China

**Francesco D'Errico** [francesco.d-errico@pacea.u-bordeaux1.fr](mailto:francesco.d-errico@pacea.u-bordeaux1.fr), Université Bordeaux 1, France

**Eduardo Goés Neves** [edgneves@usp.br](mailto:edgneves@usp.br), Universidade de São Paulo, Brazil

**Elizabeth Graham** [e.graham@ucl.ac.uk](mailto:e.graham@ucl.ac.uk), University College London, UK

**Christine Hastorf** [hastorf@berkeley.edu](mailto:hastorf@berkeley.edu), University of California Berkeley, USA

**Charles Higham** [charles.higham@stonebow.otago.ac.nz](mailto:charles.higham@stonebow.otago.ac.nz), University of Otago, New Zealand

**Augustin Holl** [augustin.holl@mae.u-paris10.fr](mailto:augustin.holl@mae.u-paris10.fr), Université de Paris Ouest Nanterre la Défense, France

**Stephen Houston** [stephen\\_houston@brown.edu](mailto:stephen_houston@brown.edu), Brown University, USA

**Timothy Insoll** [tim.insoll@manchester.ac.uk](mailto:tim.insoll@manchester.ac.uk), University of Manchester, UK

**Susan Keech McIntosh** [skmci@rice.edu](mailto:skmci@rice.edu), Rice University, USA

**Ian Kuijt** [ian.kuijt.1@nd.edu](mailto:ian.kuijt.1@nd.edu), University of Notre Dame, USA

**Kevin Lane** [kevin.lane@cantab.net](mailto:kevin.lane@cantab.net), University of Cambridge, UK

**Li Liu** [liliu@stanford.edu](mailto:liliu@stanford.edu), Stanford University, USA

**Naoko Matsumoto** [naoko\\_m@cc.okayama-u.ac.jp](mailto:naoko_m@cc.okayama-u.ac.jp), Okayama University, Japan

**Barbara Mills** [bmills@arizona.edu](mailto:bmills@arizona.edu), University of Arizona, USA

**Peter Mitchell** [peter.mitchell@st-hughs.ox.ac.uk](mailto:peter.mitchell@st-hughs.ox.ac.uk), University of Oxford, UK

**Timothy Pauketat** [pauketat@illinois.edu](mailto:pauketat@illinois.edu), University of Illinois, USA

**Victor Paz** [victor.paz@up.edu.ph](mailto:victor.paz@up.edu.ph), University of the Philippines, the Philippines

**Susan Pollock** [s.pollock@fu-berlin.de](mailto:s.pollock@fu-berlin.de), Freie Universität, Germany

**Natalia Shishlina** [nshishlina@mail.ru](mailto:nshishlina@mail.ru), State Historical Museum, Russia

**Benjamin Smith** [benjamin.smith@uwa.edu.au](mailto:benjamin.smith@uwa.edu.au), University of Western Australia, Australia

**Claire Smith** [claire.smith@flinders.edu.au](mailto:claire.smith@flinders.edu.au), Flinders University, Australia

**Melinda Zeder** [zederm@si.edu](mailto:zederm@si.edu), National Museum of Natural History, Smithsonian Institution, USA

Cover image: the Craw Stane, Rhynie, Scotland (© Cathy MacIver).

# ANTIQUITY

Volume 87

Number 338

December 2013

<b>Editorial</b>	963
<b>Research</b>	
Plant foods in the Upper Palaeolithic at Dolní Věstonice? Parenchyma redux Alexander J.E. Pryor, Madeline Steele, Martin K. Jones, Jiří Svoboda & David G. Beresford-Jones	971
The depiction of the individual in prehistory: human representations in Magdalenian societies Oscar Fuentes	985
Early seventh-millennium AMS dates from domestic seeds in the Initial Neolithic at Franchthi Cave (Argolid, Greece) Catherine Perlès, Anita Quiles & Hélène Valladas	1001
The persistent presence of the dead: recent excavations at the hunter-gatherer cemetery at Zvejnieki (Latvia) Liv Nilsson Stutz, Lars Larsson & Ilga Zagorska	1016
Tainted ores and the rise of tin bronzes in Eurasia, c. 6500 years ago Miljana Radivojević, Thilo Rehren, Julka Kuzmanović-Cvetković, Marija Jovanović & J. Peter Northover	1030
The origins and spread of stock-keeping: the role of cultural and environmental influences on early Neolithic animal exploitation in Europe Katie Manning, Sean S. Downey, Sue Colledge, James Conolly, Barbara Stopp, Keith Dobney & Stephen Shennan	1046
Strategic and sporadic marine consumption at the onset of the Neolithic: increasing temporal resolution in the isotope evidence Janet Montgomery, Julia Beaumont, Mandy Jay, Katie Keefe, Andrew R. Gledhill, Gordon T. Cook, Stephen J. Dockrill & Nigel D. Melton	1060
The early chronology of broomcorn millet ( <i>Panicum miliaceum</i> ) in Europe Giedre Motuzaite-Matuzeviciute, Richard A. Staff, Harriet V. Hunt, Xinyi Liu & Martin K. Jones	1073
The origins of terraced field agriculture in the Caucasus: new discoveries in the Kislovodsk basin Dmitry S. Korobov & Alexander V. Borisov	1086
The earliest Buddhist shrine: excavating the birthplace of the Buddha, Lumbini (Nepal) R.A.E. Coningham, K.P. Acharya, K.M. Strickland, C.E. Davis, M.J. Manuel, I.A. Simpson, K. Gilliland, J. Tremblay, T.C. Kinnaird & D.C.W. Sanderson	1104
A Late Antique Christian king from Zafār, southern Arabia Paul Yule	1124

- Between prehistory and history: the archaeological detection of social change among the Picts** 1136  
Gordon Noble, Meggen Gondek, Ewan Campbell & Murray Cook
- The early Swahili trade village of Tumbwe, Pemba Island, Tanzania, AD 600–950** 1151  
Jeffrey Fleisher & Adria LaViolette

## Method

- Cycles of change in Jomon settlement: a case study from eastern Tokyo Bay** 1169  
Enrico R. Crema
- Calculating ceramic vessel volume: an assessment of methods** 1182  
Erin Christine Rodriguez & Christine A. Hastorf

## Debate

- Cemetery or sacrifice? Infant burials at the Carthage Tophet**
- Age estimations attest to infant sacrifice at the Carthage Tophet** 1191  
Patricia Smith, Lawrence E. Stager, Joseph A. Greene & Gal Avishai
- Phoenician bones of contention** 1199  
Paolo Xella, Josephine Quinn, Valentina Melchiorri & Peter van Dommelen
- The death of trance: recent perspectives on San ethnographies and rock arts** 1208  
Anne Solomon

## Reviews

### Review articles

- Archaeological theory: back to the future?** JOHN BINTLIFF reviewing 1214  
*Mundane objects: materiality and non-verbal communication* Pierre Lemonnier  
*Entangled: an archaeology of the relationships between human beings and things* Ian Hodder
- A new benchmark for Chinese archaeology** RODERICK B. CAMPBELL reviewing 1217  
*A companion to Chinese archaeology* Anne P. Underhill (ed.)  
*Ancient Central China: centers and peripheries along the Yangzi River* Rowan K. Flad & Pochan Chen
- Anglo-Saxon migration: historical fact or mythical fiction?** CATHERINE HILLS 1220  
reviewing  
*Worlds of Arthur: facts and fictions of the Dark Ages* Guy Halsall  
*Myth and history. Ethnicity and politics in the first millennium British Isles* Stephen Yeates
- Peruvian perspectives: pottery figurines and national heritage** DAVID M. BROWNE 1223  
reviewing  
*The pottery figurines of pre-Columbian Peru. Volume III: the figurines of the south coast, the highlands and the Selva* Alexandra Morgan  
*Peru: kingdoms of the sun and moon* Victor Pimentel (ed.)

## Book reviews

- Dennis J. Stanford & Bruce A. Bradley *Across Atlantic ice: the origins of America's Clovis culture* ROBIN DENNELL 1226
- Phillip C. Edwards (ed.) *Wadi Hammeh 27: an early Natufian settlement at Pella in Jordan*. ANNA BELFER-COHEN 1227
- François Valla (ed.) *Les Fouilles de la Terrasse D'Hayonim (Israël) 1980–1981 et 1985–1989—sous la direction de François Valla* LISA MAHER 1228
- Burton MacDonald, Larry G. Herr, D. Scott Quaintance, Geoffrey A. Clark & Michael C.A. Macdonald *The Ayl to Ras an-Naqab archaeological survey, southern Jordan 2005–2007* E.B. BANNING 1230
- Daniela Hofmann & Jessica Smyth (ed.) *Tracking the Neolithic house in Europe* MARC VANDER LINDEN 1232
- F. Menotti & Aleksey G. Korvin-Piotrovskiy (ed.) *The Tripolye culture. Giant-settlements in Ukraine: formation, development and decline* DAVID W. ANTHONY 1233
- Amy Bogaard *Plant use and crop husbandry in an early Neolithic village: Vaihingen an der Enz, Baden-Württemberg* MARGARETA TENGBERG 1235
- Richard Bradley *The idea of order: the circular archetype in prehistoric Europe* TIM INGOLD 1236
- Melanie Giles *A forged glamour: landscape, identity and material culture in the Iron Age* TOM MOORE 1238
- R.H. White, C. Gaffney & V.L. Gaffney with Arnold Baker *Wroxeter, the Cornovii and the urban process: final report of the Wroxeter Hinterland Project, 1994–1997. Volume 2: characterizing the city* WILLIAM BOWDEN 1239
- Jess Tipper *Experimental archaeology and fire: the investigation of a burnt reconstruction at West Stow Anglo-Saxon village* HELENA HAMEROW 1241
- Aleksander Pluskowski *The archaeology of the Prussian Crusade: holy war and colonisation* DENYS PRINGLE 1242
- Don Walker *Disease in London, 1<sup>st</sup> to 19<sup>th</sup> centuries: an illustrated guide to diagnosis* TONY WALDRON 1244
- Timothy R. Pauketat *An archaeology of the cosmos: rethinking agency and religion in ancient America* TIMOTHY INSOLL 1245
- Ban Non Wat: a great site reviewed. A response by C.F.W. HIGHAM 1246
- New Book Chronicle** 1250  
Robert Witcher
- Index** 1264

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

Farre: an early Middle Pleistocene site in the Chalbi basin, northern Kenya  
Joseph V. Ferraro, Katie M. Binetti, Gary E. Stinchcomb & Fredrick K. Manthi

**Towards a new approach to the ‘kites phenomenon’ in the Old World: the GLOBALKITES Project**

Olivier Barge, Jacques Élie Brochier, Jwana Chahoud, Christine Chataigner, Marie-Laure Chambrade, Arkadi Karakhanyan, Emmanuelle Régagnon & Rémy Crassard

**Cavescapes in the pre-Columbian Caribbean**

Alice V.M. Samson, Jago E. Cooper, Miguel A. Nieves, Reniel Rodríguez Ramos, Patricia N. Kambesis & Michael J. Luce

**Ground-penetrating radar investigations at Kalavassos *Ayios-Dhimitrios* offer a new look at Late Bronze Age Cyprus**

Thomas M. Urban, Jeffrey F. Leon, Sturt W. Manning, Kevin D. Fisher, Catherine M. Kearns & Peregrine A. Gerard-Little

**The Mission Archéologique Française au Myanmar: past, present & future**

Thomas O. Pryce, Anne-Sophie Coupey, Aung Aung Kyaw, Laure Dussubieux, Aude Favereau, Leilani Lucas & Marie Perrin

**The roots of an intellectual empire: Miles Burkitt, ‘knowledge travel’ and archaeology in early-twentieth-century Europe**

Pamela Jane Smith

**Recovering samples for ancient DNA research: guidelines for the field archaeologist**

Morten E. Allentoft

**The significance of ‘non-professional’ archaeological photographs of the past for archaeological research of today**

Bart Wagemakers

**Archaeological sites as data banks**

Claudio Vita-Finzi