

ANTIQUITY



www.antiquity.ac.uk Volume 91 • Number 356 • April 2017

A REVIEW OF WORLD ARCHAEOLOGY

EDITED BY CHRIS SCARRE



EDITOR
Chris Scarre

REVIEWS EDITOR
Robert Witcher

EDITORIAL MANAGER
Jo Dean

EDITORIAL ASSISTANTS
Ross Kendall
Thomas Swindells
James Walker

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

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

Antiquity is included in the Cambridge Journals Online service at <http://journals.cambridge.org/AQY>. Additional content, the Project Gallery, and free-to-access material may be found 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, Amy Bogaard, Robin Coningham, Barry Cunliffe, Roberta Gilchrist, Anthony Harding, Paul Mellars, Martin Millett, Nicky Milner, Stephanie Moser and Cameron Petrie.

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

EDITORIAL ADVISORY BOARD

Peter Bellwood, *The Australian National University, Australia*

Peter Mitchell, *University of Oxford, UK*

Xingcan Chen, *Chinese Academy of Social Sciences, Beijing*

Timothy Pauketat, *University of Illinois, USA*

Eduardo Goés Neves, *Universidade de São Paulo, Brazil*

Victor Paz, *University of The Philippines, The Philippines*

Elizabeth Graham, *University College London, UK*

Michael Petraglia, *Max Planck Institute for the Science of Human History, Germany*

Christine Hastorf, *University of California Berkeley, USA*

Innocent Pikirayi, *University of Pretoria, South Africa*

Charles Higham, *University of Otago, New Zealand*

Susan Pollock, *Freie Universität Berlin, Germany*

Stephen Houston, *Brown University, USA*

Natalia Shishlina, *State Historical Museum, Moscow, Russia*

Timothy Insoll, *University of Exeter, UK*

Benjamin Smith, *University of Western Australia, Australia*

Susan Keech McIntosh, *Rice University, USA*

Claire Smith, *Flinders University, Australia*

Ian Kuijt, *University of Notre Dame, USA*

Monica Smith, *University of California, Los Angeles, USA*

Kevin Lane, *Universidad de Buenos Aires, Argentina*

Melinda Zeder, *National Museum of Natural History, Smithsonian Institution, USA*

Li Liu, *Stanford University, USA*

Antiquity is published six times a year by Cambridge University Press for Antiquity Publications Ltd; February, April, June, August, October, December.

Advertising enquiries to the publisher at advertising@cambridge.org

©Antiquity Publications 2017. All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying or otherwise, without permission in writing from Cambridge University Press. Permission to copy (for users in the USA) is available from Copyright Clearance Center, <http://www.copyright.com>, email: info@copyright.com.

This journal issue has been printed on FSC™-certified paper and cover board. FSC is an independent, nongovernmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Printed by Bell & Bain Limited, Glasgow, UK.

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

Typesetting: Aptara Inc, New Delhi, India

Front cover: *Models of a pattern loom and a weaver from a Han Dynasty chambered tomb at Laoguanshan, Chengdu, China* (photograph by Tao Xie).

ANTIQUITY

Volume 91

Number 356

April 2017

Editorial	283
Research	
A Late Pleistocene woman from Tham Lod, Thailand: the influence of today on a face from the past	289
Susan Hayes, Rasmi Shoocongdej, Natthamon Pureepatpong, Sanjai Sangvichien & Kanoknart Chintakanon	
Dating Knossos and the arrival of the earliest Neolithic in the southern Aegean	304
Katerina Douka, Nikos Efstratiou, Mette Marie Hald, Peter Steen Henriksen & Alexandra Karetzou	
The earliest directly dated rock paintings from southern Africa: new AMS radiocarbon dates	322
Adelphine Bonneau, David Pearce, Peter Mitchell, Richard Staff, Charles Arthur, Lara Mallen, Fiona Brock & Tom Higham	
Re-theorising mobility and the formation of culture and language among the Corded Ware Culture in Europe	334
Kristian Kristiansen, Morten E. Allentoft, Karin M. Frei, Rune Iversen, Niels N. Johannsen, Guus Kroonen, Łukasz Pospieszny, T. Douglas Price, Simon Rasmussen, Karl-Göran Sjögren, Martin Sikora & Eske Willerslev	
Kossinna's smile	348
Volker Heyd	
The earliest evidence of pattern looms: Han Dynasty tomb models from Chengdu, China	360
Feng Zhao, Yi Wang, Qun Luo, Bo Long, Baichun Zhang, Yingchong Xia, Tao Xie, Shunqing Wu & Lin Xiao	
China and the steppe: reception and resistance	375
Jessica Rawson	
Protohistoric graveyards of the Swat Valley, Pakistan: new light on funerary practices and absolute chronology	389
Massimo Vidale & Roberto Micheli	
The Uffington White Horse geoglyph as sun-horse	406
Joshua Pollard	
Cultural spaces inside and outside caves: a study in Guam, western Micronesia	421
Mike T. Carson	
Two tales of one city: data, inference and Carthaginian infant sacrifice	442
J.H. Schwartz, F.D. Houghton, L. Bondioli & R. Macchiarelli	

Development of an early city in Central Mexico: the Tlalancaleca Archaeological Project	455
Tatsuya Murakami, Shigeru Kabata, Julieta M. López J. & José Juan Chávez V.	
The Malian Lakes Region redefined: archaeological survey of the Gorbi Valley	474
Peter R. Coutros	
The perfect storm: climate change and ancient Maya response in the Puuc Hills region of Yucatán	490
Michael P. Smyth, Nicholas P. Dunning, Eric M. Weaver, Philip van Beynen & David Ortegón Zapata	

Debate

Maritime hominin dispersals in the Pleistocene: advancing the debate	510
Thomas P. Leppard & Curtis Runnels	
Social science and archaeological enquiry	520
Michael E. Smith	

Reviews

Review articles

Byzantine buildings: monumental architecture at Miletus and Resafa ANDREAS PÜLZ & INA EICHNER	529
<i>Die byzantinischen Basiliken von Milet</i> Philipp Niewöhner	
<i>Forschungen in Resafa-Sergiopolis</i> Thilo Ulbert (ed.)	
History, politics and meaning among the Classic Period Maya of the southern lowlands SCOTT R. HUTSON	533
<i>Ritual, violence, and the fall of the Classic Maya kings</i> Gyles Iannone, Brett A. Houk & Sonja A. Schwake (ed.)	
<i>Excavations in residential areas of Tikal—group 7F-1</i> William A. Haviland	
<i>Mortuary landscapes of the Classic Maya: rituals of body and soul</i> Andrew K. Scherer	

Book reviews

Courtney Nimura <i>Prehistoric rock art in Scandinavia</i>	536
PAUL G. BAHN	
Dan Monah <i>Anthropomorphic representations in the Cucuteni-Tripolye culture</i>	537
BISSERKA GAYDARSKA	
Ernestine S. Elster, Eugenia Isetti, John Robb & Antonella Traverso (ed.) <i>The archaeology of Grotta Scaloria: ritual in Neolithic southeast Italy</i>	539
TIMOTHY KAISER	

David W. Anthony, Dorcas R. Brown, Aleksandr A. Khokhlov, Pavel F. Kuznetsov & Oleg D. Mochalov (ed.) <i>A Bronze Age landscape in the Russian Steppes: the Samara Valley Project</i>	540
BRYAN HANKS	
Alice Yao <i>The ancient highlands of southwest China: from the Bronze Age to the Han Empire</i>	542
NAM C. KIM	
Colin Haselgrove (ed.) <i>Cartimandua's capital? The late Iron Age royal site at Stanwick, North Yorkshire, fieldwork and analysis 1981–2011</i>	544
VINCENT GUICHARD	
David J. Breeze <i>Bearsden: a Roman fort on the Antonine Wall</i>	545
PENELOPE ALLISON	
Andrea Augenti <i>Archeologia dell'Italia medievale</i>	547
RICHARD HODGES	
Volker Sossna <i>Climate and settlement in southern Peru: the northern Río Grande de Nasca drainage between 1500 BCE and 1532 CE</i>	548
DAVID BERESFORD-JONES	
Danielle Shawn Kurin <i>The bioarchaeology of societal collapse and regeneration in ancient Peru</i>	550
KEVIN LANE	
Timothy Insoll <i>Material explorations in African archaeology</i>	552
JEFFREY FLEISHER	
New Book Chronicle	554
Robert Witcher	
Project Gallery on the website (http://www.cambridge.org/core/journals/antiquity/project-gallery)	
The first evidence of Middle Palaeolithic Nubian technology in north-central Oman	
A. Beshkani, T. Beuzen-Waller, S. Bonilauri & G. Gernez	
Harvest time: crop-reaping technologies and the Neolithisation of the central Mediterranean	
Niccolò Mazzucco, Denis Guilbeau, Cristiana Petrinelli-Pannocchia, Bernard Gassin, Juan José Ibáñez & Juan Francisco Gibaja	
Investigating the provenance of obsidian from Neolithic and Chalcolithic sites in Bulgaria	
Clive Bonsall, Nedko Elenski, Georgi Ganecovski, Maria Gurova, Georgi Ivanov, Vladimir Slavchev & Radka Zlateva-Uzunova	
Archaeometric analysis of ceramic production and exchange from the Neolithic to the Gallo-Roman period in Brittany, France	
Benjamin Gehres	

The lost fortress of Onoguris? Newly discovered sixth-century AD fortifications at Khuntsistsikhe, western Georgia

Paul Everill, Besik Lortkipanidze, Nikoloz Murghulia, Ian Colvin & Davit Lomitashvili

Investigating the proposed sanctuary near the volcanic Lago di Venere, Pantelleria, Italy, in 2014 and 2015

Carrie Ann Murray, Clive Vella, Thomas M. Urban & Maxine Anastasi

Art and archaeology: the visualisation of Orkney

Julia Sorrell