



ANTIQUITY

www.antiquity.ac.uk Volume 98 • Number 398 • April 2024

A REVIEW OF
WORLD ARCHAEOLOGY

EDITED BY ROBERT WITCHER

ISSN 0003 598X



EDITOR
Robert Witcher

DEPUTY EDITOR
Robin Skeates
EDITORIAL MANAGER
Lindsey Elstub
ASSISTANT EDITOR
Abigail Teasdale

REVIEWS EDITOR
Marion Uckelmann
PRODUCTION EDITOR
Helen Devonshire

PUBLIC ENGAGEMENT AND PRESS CO-ORDINATOR
Max Storey

EDITORIAL ADDRESS

Antiquity, Department of Archaeology,
Durham University, South Road, Durham DH1 3LE, UK
Tel: +44 (0) 191 3341125; 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 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, Carl Heron, 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, Sue Hamilton, Nicky Milner, Cameron Petrie, Mike Pitts, Marie Louise Stig Sørensen and Robert Witcher.**

EDITORIAL ADVISORY BOARD

Peter Bellwood, <i>The Australian National University, Australia</i>	Peter Mitchell, <i>University of Oxford, UK</i>
Xingcan Chen, <i>Chinese Academy of Social Sciences, Beijing</i>	Timothy Pauketat, <i>University of Illinois, USA</i>
Eduardo Goés Neves, <i>Universidade de São Paulo, Brazil</i>	Victor Paz, <i>University of The Philippines, The Philippines</i>
Elizabeth Graham, <i>University College London, UK</i>	Michael Petraglia, <i>Australian Research Centre for Human Evolution, Griffith University, Australia</i>
Charles Higham, <i>University of Otago, New Zealand</i>	Innocent Pikirayi, <i>University of Pretoria, South Africa</i>
Corinne Hofman, <i>Leiden University, the Netherlands</i>	Susan Pollock, <i>Freie Universität Berlin, Germany</i>
Stephen Houston, <i>Brown University, USA</i>	Natalia Shishlina, <i>State Historical Museum, Moscow, Russia</i>
Timothy Insoll, <i>University of Exeter, UK</i>	Benjamin Smith, <i>University of Western Australia, Australia</i>
Susan Keech McIntosh, <i>Rice University, USA</i>	Claire Smith, <i>Flinders University, Australia</i>
Ian Kuijt, <i>University of Notre Dame, USA</i>	Monica Smith, <i>University of California, Los Angeles, USA</i>
Kevin Lane, <i>Universidad de Buenos Aires, Argentina</i>	Miriam Stark, <i>University of Hawai'i-Manoa, USA</i>
Akira Matsuda, <i>University of Tokyo, Japan</i>	Sarah Tarlow, <i>University of Leicester, UK</i>
Barbara Mills, <i>University of Arizona, USA</i>	

Antiquity is published six times a year: February, April, June, August, October and December.

Published by Cambridge University Press on behalf on Antiquity Publications Ltd.

Advertising enquiries to the publisher at advertising@cambridge.org.

©Antiquity Publications 2024. 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, non-governmental, not-for-profit organisation established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Printed in Great Britain by Henry Ling Limited, The Dorset Press, Dorchester, DT1 1HD.

Cartographic design by Connor J. Sweetwood; inset maps use map data from Mapbox, OpenStreetMap and their data sources. To learn more, visit <https://www.mapbox.com/about/maps/> and <http://www.openstreetmap.org/copyright>.

Typesetting: Nova Techset Private Limited, Bengaluru & Chennai, India.

Subscriptions can be purchased from Cambridge University Press and online at <https://www.cambridge.org/core/journals/antiquity/subscribe>.

Antiquity remains neutral with regard to jurisdictional claims in maps supplied by authors.

Cover. Bronze bracelet and spiral object discovered at a dried-out lake near Papowo Biskupie in north-central Poland. In 2023, metal detecting identified substantial numbers of bronze finds; subsequent excavations revealed several metalwork deposits and dozens of human skeletons dated to between 1000 and 400 BC. Over 550 bronze artefacts have been recovered from the site, comprising predominantly arm and neck ornaments and other types of objects commonly associated with female burials, as well as horse-related gear, typical of the Halstatt period. See Project Gallery 'The Sacred Lake Project: preliminary findings from the Lasatian site of Papowo Biskupie, Poland' by Jacek Gackowski et al. <https://doi.org/10.15184/aqy.2023.198> (photograph by A. Piasecka).

ANTIQUITY

Volume 98

Number 398

April 2024

Editorial

Robert Witcher

295

Research Articles

- Big enough to matter: on the frequency and chronology of giant handaxes in the British Lower Palaeolithic** 305
Luke Dale, Aaron Rawlinson, Pete Knowles, Frederick Foulds, Nick Ashton, David Bridgland & Mark White
- Bodily boundaries transgressed: corporal alteration through ornamentation in the Pre-Pottery Neolithic at Boncuklu Tarla, Türkiye** 323
Ergül Kodaş, Emma L Baysal & Kazım Özkan
- Continuity and climate change: the Neolithic coastal settlement of Habonim North, Israel** 343
Roey Nickelsberg, Thomas E. Levy, Ruth Shahack-Gross, Anthony Tamberino, Scott McAvoy, Gal Bermatov-Paz, Nimrod Marom, Ehud Arkin Shalev, Ehud Weiss, Suembikya Frumin & Assaf Yasur-Landau
- Provisioning urbanism: a comparative urban-rural zooarchaeology of ancient Southwest Asia** 363
Jane S. Gastra, Dan Lawrence & Valentina Tumolo
- Trypillia mega-sites: a social levelling concept?** 380
Robert Hofmann, Nils Müller-Scheeßel & Johannes Müller
- Variation of millet grain size and cooking techniques across Asia between the late fourth and first millennia BC** 401
Yufeng Sun, Melissa Ritchey, Hua Zhong, Liya Tang, Elena Sergusheva, Tao Shi, Jixiang Song, Haiming Li, Guanghui Dong & Xinyi Liu
- Intentional damage to metal artefacts in burials and hoards in the south Caucasus, 2000–550 BC** 417
Giorgi Bedianashvili & Abby Robinson
- Aggrandisers and the first copper-base metallurgy in Southeast Asia** 433
Charles Higham

Mediterranean Early Iron Age chronology: assessing radiocarbon dates from a stratified Geometric period deposit at Zagora (Andros), Greece	454
Rudolph Alagich, Lorena Becerra-Valdivia, Margaret C. Miller, Katerina Trantalidou & Colin Smith	
Evidence of the intentional use of black henbane (<i>Hyoscyamus niger</i>) in the Roman Netherlands	470
Maaïke Groot, Martijn van Haasteren & Laura I. Kooistra	
Women of the Conversion Period: a biomolecular investigation of mobility in early medieval England	486
Helena Hamerow, Sam Leggett, Christel Tinguely & Petrus Le Roux	
Byzantine plate and Frankish mines: the provenance of silver in north-west European coinage during the Long Eighth Century (c. 660–820)	502
Jane Kershaw, Stephen W. Merkel, Paolo D'Imporzano & Rory Naismith	
Residue analysis suggests ritual use of tobacco at the ancient Mesoamerican city of Cotzumalhuapa, Guatemala	518
Adam Negrin, Oswaldo Chinchilla Mazariegos, Cameron L. McNeil, W. Jeffrey Hurst & Edward J. Kennelly	
French historical and contemporary archaeology: a critical assessment	535
Elias Michaut	

Reviews

Review Articles

Personalised monuments and monumental personalities in the past and present of Bronze Age Cyprus	547
PERTEV BASRI	
<i>Monumentality, place-making and social interaction on Late Bronze Age Cyprus</i>	
Kevin D. Fisher	
<i>Late Bronze Age Cyprus: a reassessment of settlement structure and society</i>	
Bernard Knapp	
<i>Trench warfare at Enkomi: personalities, politics and science in Cypriot archaeology</i>	
George Papasavvas	

Book reviews

Monica L. Smith (ed.) <i>The power of nature: archaeology and human-environmental dynamics</i>	553
ALESSANDRA E. DOMINGUEZ	

Guy D. Middleton <i>Women in the ancient Mediterranean world: from the Palaeolithic to the Byzantines</i> ANNA LUURTSEMA	555
Jessica Rawson <i>Life and afterlife in Ancient China</i> ROWAN FLAD	557
Angelo Castorao Barba, Davide Tanasi & Roberto Micciché (ed.) <i>Archaeology of the Mediterranean during Late Antiquity and the Middle Ages</i> HAGGAI OLSHANETSKY	560
Martin Biddle, Jane Renfrew & Patrick Ottaway (ed.) <i>Environment and agriculture of early Winchester</i> DUNCAN W. WRIGHT	562
Christopher Heaney <i>Empires of the dead: Inca mummies and the Peruvian ancestors of American anthropology</i> AMANDINE FLAMMANG	564
Charles E. Orser, Jr. <i>Living ceramics, storied ground: a history of African American archaeology</i> JOHN P. MCCARTHY	566
Sarah Tarlow <i>The archaeology of loss: life, love and the art of dying</i> MELANIE GILES	569
Richard Osgood <i>Broken pots, mending lives: the archaeology of Operation Nightingale</i> STEPHEN HUMPHREYS	571
New Book Chronicle MARION UCKELMANN	574

Project Gallery (<http://www.cambridge.org/core/journals/antiquity/project-gallery>)

Chronology of hominin activity at Vindija Cave, Croatia: new dates recorded via standard and ultrafiltration AMS

Ivor Karavanić, Ines Krajcar Bronić, Andreja Sironić, Siniša Radović, Marko Banda & Fred H. Smith

Yeghegis-1 rockshelter site: new investigations into the late Chalcolithic of Armenia

Mariya Antonosyan, Mariam Saribekyan, Satenik Mkrtchyan, Anahit Hovhannisyanyan, Ellery Frahm, Patrick Roberts, Arsen Bobokhyan, Karen Azatyan, Levon Yepiskoposyan & Noel Amano

Unlocking archaeological data online via the PEPAdb (Prehistoric Europe's Personal Adornment Database) initiative for Open Science

Galo Romero-García, Daniel Sánchez-Gómez, José Á. Garrido-Cordero, José M. Martínez-Blanes, Ana C. Sousa & Carlos P. Odriozola

The Sacred Lake Project: preliminary findings from the Lusatian site of Papowo Biskupie, Poland

Jacek Gackowski, Łukasz Kowalski, Wiesław Lorkiewicz, Agnieszka M. Noryśkiewicz, Michał Jankowski, Dariusz Kamiński, Paweł Molewski, Tomasz Purowski, Barbara Wagner, Aldona Garbacz-Klempka, Grzegorz Osipowicz, Magdalena Przymorska-Sztuczka, Andrzej P. Kowalski, Mateusz Sosnowski, Andrzej Podgórski & Grażyna Szczepańska

After the fall of the Egyptian Empire: review of the Third Intermediate Period settlement at Tell el-Retaba

Łukasz Jarmużek, Agnieszka Ryś-Jarmużek, Anna Wodzińska, Anna Gręzak, Claire Malleson & Sławomir Rzepka

Contemporary archaeological perspectives on intersectional inequality in a welfare state in twentieth-century Finland

Oula Seitsonen, Tuuli Matila, Marika Hyttinen & Alekski Kelloniemi