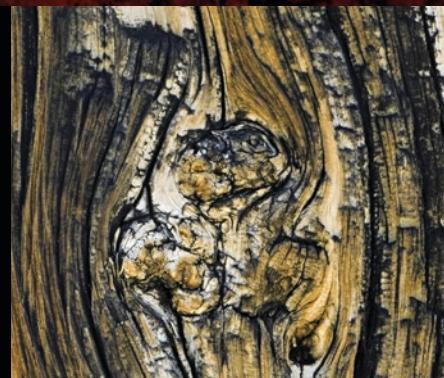
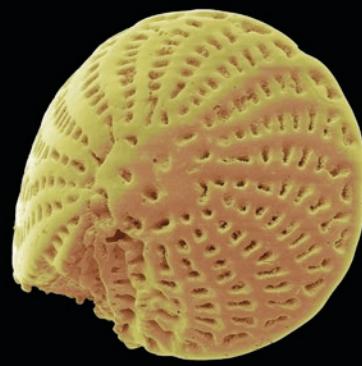
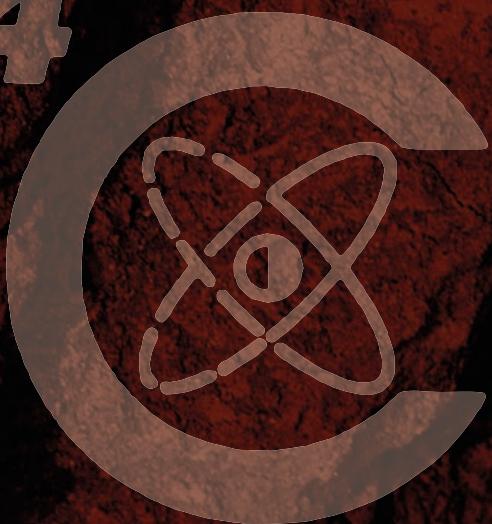


Radiocarbon

An International Journal of Cosmogenic Isotope Research

VOLUME 64 • NUMBER 1 • 2022

14



Editor

A.J.T. Jull

CAMBRIDGE
UNIVERSITY PRESS

Radiocarbon

An International Journal of Cosmogenic Isotope Research

EDITOR

A. J. T. Jull · University of Arizona

MANAGING EDITOR

Kimberley Tanner Elliott · University of Arizona

ASSOCIATE EDITORS

Edouard Bard · Collège de France
Nancy Beavan · ESR, New Zealand
Warren Beck · University of Arizona
Ravi Bhushan · PRL, Gujarat, India
Elisabetta Boaretto · Weizmann Institute
Christopher Bronk Ramsey · Oxford University
George S. Burr · University of Arizona
Alexander Cherkinsky · University of Georgia
Owen K. Davis · University of Arizona
Ellen R. M. Druffel · University of California-Irvine
Pieter Grootes · Christian-Albrechts University
Carla S. Hadden · University of Georgia
Irka Hajdas · ETH Zurich
Derek Hamilton · University of Glasgow
Christine Hatté · LSCE, Gif-sur-Yvette
Gregory Hodgins · University of Arizona
Quan Hua · ANSTO, Australia
Yaroslav Kuzmin · Russian Academy of Sciences

Steven W. Leavitt · University of Arizona
Susanne Lindauer · CEZA, Mannheim
Kita Macario · UFF, Rio de Janeiro
Ann P. McNichol · WHOI, USA
Mihály Molnár · Lab. of Envir. Studies, Hungary
Toshio Nakamura · Nagoya University
Jesper Olsen · Aarhus AMS Center
Charlotte Pearson · University of Arizona
Pavel Povinec · Comenius University, Slovakia
Andrzej Rakowski · Silesian Univ. of Tech., Gliwice
Paula J. Reimer · Queen's University Belfast
E. Marian Scott · University of Glasgow
Corina Solís · UNAM, Mexico City
John R. Southon · University of California-Irvine
Jocelyn Turnbull · GNS Science, New Zealand
Johannes van der Plicht · Groningen University
Antoine Zazzo · Mus. Nat. d'Histoire naturelle
Weijian Zhou · Inst. of Earth Environ., Chinese Acad. of Sci.

Radiocarbon (ISSN 0033-8222) is published quarterly by Cambridge University Press, One Liberty Plaza 20th Floor New York, NY 10006. © 2022 by the Arizona Board of Regents on behalf of the University of Arizona. All rights reserved.

Editorial Office

Communications should be addressed to the Managing Editor, *Radiocarbon*, Department of Geosciences, The University of Arizona, 4717 East Fort Lowell Road, Tucson, AZ 85712-1201 USA. Tel.: +1 (520) 621-0641; Email: kimelliott@arizona.edu. Contributors should consult the Instructions for Contributors, which is available on the journal's Web site: cambridge.org/rdc.

Subscriptions

Annual subscription rates for Volume 64, 2022: Institutional rate is (print and electronic) \$614 in the USA, Canada, and Mexico, £396 + VAT elsewhere. Institutional rate (electronic only) \$427 in the USA, Canada, and Mexico, £274 + VAT elsewhere. Individual rate is (print and electronic) \$202 in the USA, Canada, and Mexico, £130 + VAT elsewhere. Individual rate (electronic only) \$147 in the USA, Canada, and Mexico, £96 + VAT elsewhere. Please direct subscription inquiries and requests for back issues to Customer Services at Cambridge University Press, email: subscriptions_newyork@cambridge.org (USA, Canada, and Mexico) or journals@cambridge.org (outside of USA, Canada, and Mexico).

Advertising

To advertise in the journal email advertising@cambridge.org or telephone +1 (212) 337 5062 in the USA, Canada, or Mexico; email ad_sales@cambridge.org or telephone +44 (0)1223 325898 in the rest of the world.

Abstracting and indexing

Radiocarbon is indexed and/or abstracted by the following sources: *Anthropological Index*; *Anthropological Literature*; *Art and Archaeology Technical Abstracts*; *Bibliography and Index of Geology* (GeoRef); *British Archaeological Bibliography*; *Chemical Abstracts*; *Chemistry Citation Index*; *Current Advances in Ecological and Environmental Sciences*; *Current Contents* (ISI); *FRANCIS* (Institut de l'Information Scientifique et Technique – CNRS); *Geographical Abstracts*; *Geological Abstracts*; *Oceanographic Literature Review*; *Science Citation Index*; *Social Sciences Citation Index*.

List of laboratories

Our comprehensive list of laboratories is published annually, and is also available at www.radiocarbon.org. We ask all laboratory directors to provide their laboratory code designation, as well as current telephone and fax numbers, and email addresses. Changes in names or addresses, additions or deletions should be reported to the managing editor. Conventional and AMS laboratories are arranged in alphabetical order by country, and we include laboratories listed by code designation.

Permissions

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. Policies, request forms and contacts are available at: <http://journals.cambridge.org/action/rightsAndPermissions>. Permission to copy (for users in the USA) is available from Copyright Clearance Center: <http://www.copyright.com>, email: info@copyright.com.

Postmaster: Send address changes to *Radiocarbon*, Cambridge University Press, One Liberty Plaza, New York, NY 10006, USA.

Radiocarbon

Vol 64, Nr 1, 2022

CONTENTS

RESEARCH ARTICLES

Soil Organic Carbon Dating of Paleosoils of Alluvial Fans in a Blown Sand Area (Nyírség, Hungary) <i>Botond Buró, Gábor Négyesi, Tamás Varga, György Sipos, Dávid Filyó, A J Timothy Jull, Mihály Molnár</i>	1
Premature Oxidation During Argon Plasma Cleaning of Water-Rich Radiocarbon Samples <i>J Royce Cox, Eric Blinman, Lukas Wacker, Marvin W Rowe</i>	21
New Radiocarbon Dates from Archaeological Sites in Parts of Igboland, Southeastern Nigeria <i>Kenechukwu Chidiogo Daniel, Anselm Maduabuchi Ibeani, Jacinta Uchenna Ikegwu, Emuobosa Akpo Orijemie</i>	35
Environmental Levels of Radiocarbon in Lund, Sweden, Prior to the Start of the European Spallation Source <i>Kristina Eriksson Stenström, Göran Skog, Christian Bernhardsson, Sören Mattsson, Anne Birgitte Nielsen, Mats Rundgren, Raimund Muscheler, Hans Linderson, Guillaume Pédehontaa-Hiaa, Christopher Rädf</i>	51
Building a Master Chronology for the Western Lake Bonneville Basin with Stratigraphic and Elemental Data from Multiple Sites, USA <i>Isaac Hart, Kaylee B Jones, Andrea Brunelle, Jennifer DeGraffenreid, Charles G (Jack) Oviatt, Barbara Nash, Daron Duke, D Craig Young</i>	69
Single Amino Acid Radiocarbon Dating of Two Neanderthals Found at Šal'a (Slovakia) <i>Rachel J A Hopkins, Mateja Hajdinjak, Alena Šefčáková, Dan Comeskey, Thibaut Devière, Tom F G Higham</i>	87
From Chronological Networks to Bayesian Models: Chronolog as a Front-End to Oxcal <i>E Levy, E Piasetzky, A Fantalkin, I Finkelstein</i>	101
Using Sedimentological Priors to Improve ^{14}C Calibration of Bioturbated Sediment Archives <i>Bryan C Lougheed</i>	135
Radiocarbon Dating Rozhok I, a Middle Paleolithic Open-Air Site in Southern Russia <i>A K Otcherednoy, P E Nehoroshev, L B Vishnyatsky, E V Voskresenskaya, J R Southon, J F Hoffecker</i>	153
Comparing Analysis of Pretreatment Methods of Wood and Bone Materials for the Chronology of Peripheral Burials at Tunnug 1, Tuva Republic, Russia <i>Fatima Pawelczyk, Irka Hajdas, Timur Sadykov, Jegor Blochin, Gino Caspari</i>	171

TECHNICAL NOTE

Wiggle Matching with Correlations <i>Paul Muzikar, Timothy J Heaton.....</i>	187
Radiocarbon in Dissolved Organic Carbon by UV Oxidation: An Update of Procedures and Blank Characterization at NOSAMS <i>Li Xu, Mark L Roberts, Kathryn L Elder, Roberta L Hansman, Alan R Gagnon, Mark D Kurz</i>	195

ERRATUM

Comparing Analysis of Pretreatment Methods of Wood and Bone Materials for the Chronology of Peripheral Burials at Tunnug 1, Tuva Republic, Russia – Erratum <i>Fatima Pawelczyk, Irka Hajdas, Timur Sadykov, Jegor Blochin, Gino Caspari.....</i>	201
---	-----

CORRIGENDUM

Local Spatial Heterogeneity of Holocene Carbon Accumulation Throughout the Peat Profile of an Ombrotrophic Northern Minnesota Bog – Corrigendum <i>Karis J McFarlane, Paul J Hanson, Colleen M Iversen, Jana R Phillips, Deanne J Brice</i>	203
---	-----