

american antiquity

JOURNAL OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

VOLUME 53 NUMBER 4

OCTOBER 1988

OFFICERS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

President: DENA DINCAUZE, Department of Anthropology, University of Massachusetts, Amherst, MA 01003.

President-elect: JEREMY A. SABLOFF, Department of Anthropology, University of Pittsburgh, PA 15260.

Secretary: LYNNE GOLDSTEIN, Department of Anthropology, University of Wisconsin-Milwaukee, WI 53201.

Treasurer: ROBERT J. SHARER, Department of Anthropology, University Museum, University of Pennsylvania, Philadelphia, PA 19104.

Treasurer-elect: Mark P. Leone, Department of Anthropology, University of Maryland, College Park, MD 20742.

Editor: W. RAYMOND WOOD, Department of Anthropology, University of Missouri, Columbia, MO 65211.

Executive Committee Members: ROBERT L. BETTINGER, Department of Anthropology, University of California-Davis, Davis, CA 95616; KATHLEEN A. DEAGAN, Florida State Museum, Department of Anthropology, Gainesville, FL 32611; MARK J. LYN-OTT, Midwest Archeological Center, National Park Service, Federal Building, Room 474, 100 Centennial Mall North, Lincoln, NE 68508; NAN A. ROTHSCHILD, Department of Anthropology, Barnard College, 606 West 120th Street, New York, NY 10027

Executive Director: JEROME A. MILLER, Society for American Archaeology, 808 17th St., N.W., Suite 200, Washington, DC 20006.

EDITORIAL STAFF OF AMERICAN ANTIQUITY

Editor: W. RAYMOND WOOD, Department of Anthropology, University of Missouri, Columbia, MO 65211.

Associate Editor: MICHAEL J. O'BRIEN, Department of Anthropology, University of Missouri, Columbia, MO 65211.

Associate Editor for Reviews and Book Notes: SUSAN C. VEHIK, Department of Anthropology, University of Oklahoma, Norman, OK 73019.

Associate Editor for Current Research: THOMAS F. LYNCH, Department of Anthropology, Cornell University, Ithaca, NY 14853.

Associate Editor for Obituaries: LARRY J. ZIMMERMAN, Department of Social Behavior, University of South Dakota, Vermillion, SD 57069.

Consulting Editor for Mathematics and Statistics: STEPHEN E. PLOG, Department of Anthropology, University of Virginia, Charlottesville, VA 22903.

Assistant Editor: TERESITA MAJEWSKI.

Editorial Assistants: BARBARA E. BARMAN and CHRISTOPHER B. PULLIAM.

AMERICAN ANTIQUITY (ISSN 0002-7316) is published quarterly in January, April, July, and October. Subscription is by membership in the Society for American Archaeology, 808 17th St., N.W., Suite 200, Washington, DC 20006. Annual dues for individual U.S. and Canadian members are \$50.00, institutional subscribers \$75.00, students and retired (over 65), \$25.00, foreign members \$40.00. Annual membership dues include \$25.00 for the subscription to American Antiquity. Spouses of members are eligible for joint memberships at \$10.00 per year (subscription not included). American Antiquity is not available for exchange. Address requests for individual or institutional memberships, instructions for changes of address, and orders for back issues to: Society for American Archaeology, 808 17th St., N.W., Suite 200, Washington, DC 20006. Claims for non-receipt and for damaged copies must be made within 90 days (U.S.) or 180 days (non-U.S.) of the publication date for free replacement. Non-U.S. deliveries cannot be guaranteed; non-U.S. members and subscribers may purchase replacement copies at a 20% discount. American Antiquity is printed at The Allen Press, Lawrence, Kansas 66044.

Second class postage paid at Washington, DC and additional mailing offices. POSTMASTER: Send address changes to *American Antiquity*, % Society for American Archaeology, 808 17th St., N.W., Suite 200, Washington, DC 20006.

NOTICE TO AUTHORS

American Antiquity publishes papers on the archaeology of the Western hemisphere and closely related subjects. Material for the Articles, Reports, Forum, and Comments sections should be submitted to the Editor, publications for review to the Associate Editor for Reviews and Book Notes, and information for Current Research to the Associate Editor for Current Research. Authors should submit an original and two copies of their manuscripts. A detailed guide to stylistic and technical matters of https://doi.org//manuscript/preparation/supponresbitsApride 1983-s(yeles48, no. 2).

american antiquity

VOLUME 53 N

NUMBER 4

OCTOBER 1988

W. Raymond Wood, Editor

Associate Editors: Susan C. Vehik (Reviews and Book Notes), Thomas F. Lynch (Current Research), Larry J. Zimmerman (Obituaries), and Michael J. O'Brien

Assistant Editor: Teresita Majewski
Editorial Assistants: Barbara E. Barman and Christopher B. Pulliam

CONTENTS

1988 SAA Distinguished Service Award 1985 Crabtree Award for Avocational Arc 1988 Crabtree Award for Avocational Arc	. .	675 678 680
OBITUARY		
Augustus Ledyard Smith, 1901-1985	Gordon R. Willey	683
ARTICLES		
The Effectiveness of Subsurface Testing: A Simulation Approach	Keith W. Kintigh	686
Measurement of Archaeological Diversity and the Sample-Size Effect The Three Sides of a Biface	David Rhode Robert L. Kelly	708 717
The Archaeological Analysis of Plantation Society: Replacing Status and Caste with Economics and Power	Charles E. Orser, Jr.	735
Sources of Archaeological Obsidian in the Southwest: An Archaeological, Petrological, and Geochemical Study	M. Steven Shackley	752
Patterns of Population Movement and Long-Term Population Growth in Southwestern Colorado	Sarah H. Schlanger	773
REPORTS		
Desert Ground Drawings in the Lower Santa Valley, North Coast of Peru The Penis-Headed Manikin Glyph	David J. Wilson Michael P. Closs	794 804
An Alternative View of Sedentary Period Hohokam Shell-Ornament Production Use of a Falling-Weight Tester	Deni J. Seymour	812
for Assessing Ceramic Impact Strength	Jonathan Mabry, James M. Skibo, Michael B. Schiffer,	829

American Antiquity is indexed in the Humanities Index and in Anthropological Literature. Articles appearing in this journal are annotated and indexed in Historical Abstracts and in America: History and Life.

Copyright © 1988 by the Society for American Archaeology. All rights reserved.

ISSN 0002-7316

FORUM

A Public Relations Primer	Gabriel DeCicco	840
CURRENT RESEARCH, edited by Thomas F. Lynch		
Greater Southwest, Mesoamerica, Central America		857
REVIEWS AND BOOK NOTES, edited by Susan C. Vehik		
Reviews		
Frazier: People of Chaco: A Canyon		
and Its Culture	A. E. Rogge	870
Lavallée, Julien, Wheeler, and Karlin:		
Telarmachay: Chasseurs et Pasteurs		
Préhistoriques des Andes—I	Duccio Bonavia	870
Yerkes: Prehistoric Life on the		
Mississippi Floodplain: Stone Tool		
Use, Settlement, and Subsistence Practices	Material D. High	071
at the Labras Lake Site, Illinois	Michael D. Wiant	871
Straus and Clark: La Riera Cave:		
Stone Age Hunter-Gatherer Adaptations	Mish well 4 Techin	073
in Northern Spain	Michael A. Jochim	873
Isaac (editor): Economic Aspects of Prehispanic Highland Mexico	Kenneth G. Hirth	873
Hodder: Reading the Past:	Kennein G. Hirin	0/3
Current Approaches to		
Interpretation in Archaeology	Lewis R. Binford	875
Terrell: Prehistory in the Pacific	Lewis R. Dinjora	015
Islands, A Study of Variation in		
Language, Customs, and Human Biology	William S. Avres	876
Urban and Schortman (editors): The	" tilla" S. 11yres	0,0
Southeast Maya Periphery	Frederick J. Bove	877
Rivera and Ciudad (editors): Los	1.000.000000000000000000000000000000000	• • • •
Mayas de los Tiempos Tardios Karen O. Bri		879
Boone (editor): The Aztec Templo Mayor	Ross Hassig	879
Reitz and Scarry: Reconstructing		
Historic Subsistence with an		
Example from Sixteenth-Century		
Spanish Florida	Rochelle A. Marrinan	881
Drennan and Uribe (editors): Chiefdoms in		
the Americas	Winifred Creamer	882
Dorado: La Religion Maya	Virginia E. Miller	883
Van Andel and Runnels: Beyond		
the Acropolis: A Rural Greek Past	George Rapp, Jr.	884
Book Notes		
Small Site Architecture of Chaco Canyon, New Mexico; Communal Buffalo	Hunting	
among the Plains Indians; Contributions to Plains Prehistory; Alberta Plain		
Review; Dog Days in Southern Alberta; The Archaeology of Carrier Mills:	10,000 Years in	
the Saline Valley of Illinois; Papers in Northern Plains Prehistory and Ethn		
Biocultural Approach to Human Burials from Chaco Canyon, New Mexico		
and Community Variability within the Antelope Creek Phase of the Texas	Panhandle;	
Research and Reflections in Archaeology and History: Essays in Honor of I	Doris Stone;	
Early Neolithic Settlement and Society at Olszanica		885

INDEX TO VOLUME 53

889

The cover illustration is taken from Figure 3 in the Report by David J. Wilson.