



american antiquity

JOURNAL OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

VOLUME 47

NUMBER 3

JULY 1982

OFFICERS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

President: RICHARD E. W. ADAMS, Center for Archaeological Research, University of Texas, San Antonio, TX 78285.

President-elect: GEORGE C. FRISON, Department of Anthropology, University of Wyoming, Box 3431, University Station, Laramie, WY 82070.

Secretary: LESLIE E. WILDESEN, Wildesen and Associates, 2066 N.W. Irving, Suite 2, Portland, OR 97209.

Treasurer: W. JAMES JUDGE, Department of Anthropology, University of New Mexico, Albuquerque, NM 87131.

Treasurer-elect: ANNETTA CHEEK, National Park Service, Interagency Archaeological Services, 440 G St., N.W., Washington, D.C. 20240.

Editor: DENA F. DINCAUZE, Machmer Hall, Department of Anthropology, University of Massachusetts, Amherst, MA 01003.

Executive Committee Members: DEE GREEN, USDA Forest Service, 517 Gold Ave., S.W., Albuquerque, NM 87102; PATTY JO WATSON, Department of Anthropology, Washington University, St. Louis, MO 63130; ROBERT E. WHALLON, JR., Museum of Anthropology, Museums Building, University of Michigan, Ann Arbor, MI 48109; JOHN D. SPETH, Museum of Anthropology, Museums Building, University of Michigan, Ann Arbor, MI 48109.

EDITORIAL STAFF OF AMERICAN ANTIQUITY

Editor: DENA F. DINCAUZE, Machmer Hall, Department of Anthropology, University of Massachusetts, Amherst, MA 01003.

Associate Editor for Reviews and Book Abstracts: GEORGE J. GUMERMAN, Department of Anthropology, University of Southern Illinois, Carbondale, IL 62901.

Associate Editor for Current Research: NAN A. ROTHCHILD, Department of Anthropology, Barnard College, 606 W. 120th St., New York, NY 10027.

Associate Editor for Obituaries: NATHALIE F. S. WOODBURY, Rt. 3, Amherst, MA 01002.

Consulting Editor for Mathematics and Statistics: GEORGE L. COWGILL, Department of Anthropology, Brandeis University, Waltham, MA 02254.

Assistant Editor: JOSEPH W. MARTIN.

Production Editor: DAVID J. PUHLICK.

American Antiquity publishes papers on the archaeology of the New World and closely related subjects. Articles, Reports, and Comments should be submitted to the Editor, publications for review to the Associate Editor for Reviews and Book Abstracts, and information for "Current Research" to the Associate Editor for Current Research.

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

Subscription is by membership in the Society for American Archaeology. Annual dues for individual members are \$30.00; for institutional members \$50.00; for students \$18.00; for foreign members \$24.00. Annual membership dues include \$4.00 for a subscription to *American Antiquity*. Spouses of members are eligible for joint memberships at \$10.00 per year (subscription to *American Antiquity* not included). *American Antiquity* is not available for exchange. Address requests for individual or institutional membership, instructions for change of address, ordering back issues, or complaints about subscription fulfillment to Society for American Archaeology, 1703 New Hampshire Avenue, N.W., Washington, D.C. 20009.

NOTICE TO AUTHORS

Authors should submit an original and two copies of their manuscript. A detailed guide to all stylistic and technical questions can be found in the January 1979 issue.

AMERICAN ANTIQUITY

VOLUME 47 NUMBER 3

JULY 1982

Dena F. Dincauze, *Editor*

*Associate Editors: George J. Gumerman (Reviews and Book Abstracts),
Nan A. Rothschild (Current Research), Nathalie F. S. Woodbury (Obituaries)*

Assistant Editor: Joseph W. Martin

CONTENTS

SAA Distinguished Service Award		483
The Numic Spread: Great Basin Cultures in Competition	Robert L. Bettinger and Martin A. Baumhoff	485
Evolution of "Tribal" Social Networks: Theory and Prehistoric North American Evidence	David P. Braun and Stephen Plog	504
Aboriginal Thermal Alteration of a Central Pennsylvania Jasper: Analytical and Behavioral Implications	Debra L. Schindler, James W. Hatch, Conran A. Hay, and Richard C. Bradt	526
OBITUARIES		
Clifford Evans, 1920-1981	Don D. Fowler, Gus W. Van Beek, and Mario Sanoja	545
REPORTS		
The Dating and Cultural Associations of the "Potbellied" Sculptural Style: New Evidence from Western El Salvador	Arthur Demarest, Roy Switsur, and Rainer Berger	557
Hydraulic Engineering Aspects of the Chimú Chicama-Moche Intervalley Canal	Charles R. Ortloff, Michael E. Moseley, and Robert A. Feldman	572
Yucatec Influence in Terminal Classic Northern Belize	Diane Z. Chase and Arlen F. Chase	596
Functional Variation of Maya Spiked Vessels: A Practical Guide	Michael Deal	614
Medicine Men, Ethnic Significance, and Cultural Resource Management	David E. Doyel	634
COMMENTS		
On Mathematical Models of the Classic Maya Collapse: The Class Conflict Hypothesis Reexamined	John W. G. Lowe	643
1,000 Years of New World Archaeology	Ralph M. Rowlett	652
Exception to Two Points in Cordell's Review of Academic Press Publications in Archaeology	Elizabeth Ann Morris and Richard C. Blakeslee	655
CURRENT RESEARCH		
Great Lakes Region, Plains, Northeast		656

The code at the bottom of the first page of an article indicates the copyright owner's consent that copies of the article may be made for personal or internal use or for the personal or internal use of specific clients, provided that the copier pay the stated per-copy fee through the Copyright Clearance Center, Inc., P.O. Box 765, Schenectady, NY 12301, for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. To request permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale, write the publisher.

Copyright © 1982 by the Society for American Archaeology. All rights reserved.

Published quarterly (January, April, July, and October) by the Society for American Archaeology, 1703 New Hampshire Ave., N.W., Washington, DC 20009. Printed in the U.S.A. Second Class postage paid at Washington, DC, and additional mailing offices.

ISSN 0002-7316

REVIEWS AND BOOK ABSTRACTS

Reviews

Ichon: Archéologie du Sud de la Peninsule d'Azuero, Panama	Frederick W. Lange	682
Schiffer (editor): Advances in Archaeological Method and Theory, Volume 4	John Terrell	682
Reid (editor): Northern Ontario Fur Trade Archaeology: Recent Research	Charles A. Bishop	684
Walthall: Prehistoric Indians of the Southeast: Archaeology of Alabama and the Middle South	John W. Cottier	685
Chapman: The Archaeology of Missouri, vols. I and II	Melvin L. Fowler	686
Wilcox and Masse (editors): The Protohistoric Period in the North American Southwest, A.D. 1450-1700	David E. Doyel	687
Keeley: Experimental Determination of Stone Tool Uses: A Microwear Analysis	Stanley A. Ahler	688
Carmack: The Quiche Mayas of Utatlan: The Evolution of a Highland Guatemala Kingdom	Thomas A. Lee	690
Clutton-Brock: Domesticated Animals from Early Times	Donald K. Grayson	692
Hayes (editor): Proceedings of the 1979 Iroquois Pottery Conference	Bruce G. Trigger	693
United States General Accounting Office: Uncertainties over Federal Requirements for Archeological Preservation at New Melones Dam in California; Are Agencies Doing Enough or Too Much for Archeological Preservation? Guidance Needed.	Dee F. Green	694
Oswalt: Kolmakovskiy Redoubt: The Ethnoarchaeology of a Russian Fort in Alaska	Joan B. Townsend	695

Book Abstracts

Hoko River: A 2500 Year Old Fishing Camp on the Northwest Coast of North America; Archaeological Perspectives on Ethnicity in America: Afro-American and Asian American Culture History; Prehistory in Dead Valley, East-Central Arizona: The TG & E Springerville Report; Cultural Resources Overview of Socorro, New Mexico; A Cultural Resources Overview of the Middle Rio Grande Valley, New Mexico; Cultural Resources Overview: Mt. Taylor Area, New Mexico; Early Late Woodland Boundaries and Interaction: Indian Ceramics of Southern Lower Michigan; The Shallow Lake Site (3UN9/52) and its Place in Regional Prehistory; Parkin: The 1978-1979 Archaeological Investigations of a Cross County, Arkansas Site; Beginnings of Agriculture: From Hunting and Food Gathering to Domestication of Plants and Animals; Surveying for Archaeologists and Other Fieldworkers; Prehistoric Mining and Allied Industries; Archaeological Explorations in Caves of the Point of Pines Region, Arizona; The Durango South Project: Archaeological Salvage of Two Late Basketmaker III Sites in the Durango District; Archaeology on the Alaska Peninsula: The Naknek Region, 1960-1975, The Ugashik Drainage, 1973-1975, The Coast of Shelikof Strait, 1963-1965; Pattern Dissemination in the Prehistoric Southwest and Mesoamerica: A Comparison of Hohokam Decorative Patterns with Patterns from the Upper Gila Area and from the Valley of Oaxaca; The Student's Guide to Archaeological Illustrating; Traces of Prehistory: Papers in Honor of William G. Haag; Excavations at Fort Michilimackinac: 1978-1979. The Rue de la Babillarde; Cultural Resources Law Enforcement: An Emerging Science; Prehistoric Maya Settlement Patterns at Becan, Campeche, Mexico; Preservation Comes of Age: From Williamsburg to the National Trust, 1926-1949.	696
--	-----

ERRATA

701

The cover illustration is taken from Figure 1 of the Report by Arthur Demarest, Roy Switsur, and Rainer Berger.
