AMERICAN ANTIQUITY JOURNAL OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

VOLUME 40 NUMBER 1

JANUARY 1975

OFFICERS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

President: CHARLES R. McGIMSEY III, Department of Anthropology, University of Arkansas, Fayetteville, Arkansas 72701.

President-elect: STUART STRUEVER, Archeological Program, Northwestern University, Evanston, Illinois 60201.

Secretary: RICHARD E. W. ADAMS, Department of Anthropology, 4242 Piedras Drive East, Suite 250, University of Texas at San Antonio, Texas 78285.

Treasurer: FRED WENDORF, Department of Anthropology, Southern Methodist University, Dallas, Texas 75222.

Editor: FRANK HOLE, Department of Anthropology, Rice University, Houston, Texas 77001.

Executive Committee Members: GEORGE C. FRISON (to 1975), Department of Anthropology, Box 3431, University of Wyoming, University Station, Laramie, Wyoming 82070; GEORGE L. COWGILL (to 1975), Department of Anthropology, Brandeis University, Waltham, Massachusetts 02154; RICHARD I. FORD (to 1976), Museum of Anthropology, University of Michigan, Ann Arbor, Michigan 48104; PATTY JO WATSON (to 1976), Department of Anthropology, Washington University, St. Louis, Missouri 63130.

EDITORIAL STAFF OF AMERICAN ANTIQUITY

Editor: FRANK HOLE, Department of Anthropology, Rice University, Houston, Texas 77001.

Associate Editor for Memoirs: H. MARTIN WOBST, Department of Anthropology, University of Massachusetts, Amherst, Massachusetts 01002.

Associate Editor for Reviews: FRED PLOG, Department of Anthropology, State University of New York, Binghamton, New York 13901.

Associate Editor for Current Research: MARY ELIZABETH KING, Texas Tech Museum, P.O. Box 4499, Lubbock, Texas 79409.

Associate Editor for Current Affairs: CHARLES R. McGIMSEY III, Department of Anthropology, University of Arkansas, Fayetteville, Arkansas 72701.

Production Editor: MARK LEEMON
Circulation Manager: RONNIE MCDANIEL

American Antiquity publishes original papers on the archaeology of the New World and closely related subjects. Articles, Reports, and Comments should be submitted to the Editor, memoirs should be submitted to the Associate Editor for Memoirs, publications for review to the Associate Editor for Reviews, and information for "Current Research" to the Associate Editor for Current Research. American Antiquity is not available for exchange.

American Antiquity is published quarterly in January, April, July, and October by the Society for American Archaeology. Second-class postage paid at Washington, D.C. and additional mailing offices. Subscription is by membership in the Society for American Archaeology. Annual dues for individual members are \$15.00; for institutional members, \$20.00. Special membership rates of \$10.00 are available to students and to the members in Latin America and overseas. Address requests for individual or institutional membership, instructions for change of address, or complaints about subscription fulfillment to Society for American Archaeology, 1703 New Hampshire Avenue, N.W., Washington, D.C. 20009. See inside back cover for information on ordering back issues of American Antiquity and other publications of the Society that are still in print. Copyright © 1975 by the Society for American Archaeology. All rights reserved. Printed in U.S.A.

NOTICE TO AUTHORS

All manuscript material must be typed double-spaced on one side of sheet only. Use white non-corrasable bond. Submit original plus two copies. Include an abstract of less than 150 words that specifically refers to text material. Upon publication, abstracts will be submitted to Abstracts in Anthropology for inclusion in that series. Footnotes are not permitted. Text citations are set in parentheses, e.g. (Author 1970:100). References are listed alphabetically by author and chronologically by year. For details of manuscript organization, form of reference citation, and punctuation, etc., examine this issue. Citations in a review are placed entirely between parentheses in the text. All illustrations must be submitted as black on white drawings or as glossy prints and must not exceed 9x12 in. Number all figures consecutively and provide a caption for each. Tables should be typed on separate pages, numbered in sequence, and given headings. Large tables should be photographically reduced to fit one or more pages. Radiocarbon ages are given in the following forms: 11,950±100 radiocarbon years: 10000 B.C. (Z-200), if not previously cited; 1,000±100 radiocarbon years: A.D. 950 (Smith 1960), if previously cited. (See American Antiquity 36:246-249 for more detailed information on style.)

american antiquity

VOLUME 40 NUMBER 1

JANUARY 1975

Frank I	lole.	Editoi
---------	-------	--------

Associate Editors:	H. Martin Wo	obst (<i>Memoirs</i>),	Fred Plog	(Reviews), Mar	y Elizabeth K	King (Current	Research)
Charles R M	AcCimsev III (Current Affairs	`			-	•

Production Editor: Mark Leemon Circulation Manager: Ronnie McDaniel

CONTENTS

Society Announcement		:
ARTICLES		
An Envirotechnological System for Hogup Cave	Joel Gunn	:
Mirco-Seriation: A Method for Fine Chronologic Differentiation	Steven A. LeBlanc	2:
The "Exposed Archaeology" of China Lake, California	Emma Lou Davis	39
Early Historic Populations in Northwestern Ontario: Archaeological and Ethnohistor		
Charles A. Bishop	and M. Estellie Smith	54
REPORTS		
Social Distance Among Central Missouri Hopewell Settlements: A First Approximation Determination of the Provenience of Majolica Pottery Found in the Caribbean Area	on <i>Marvin Kay</i>	64
	and José M. Cruxent	7.
Dating Paiute-Shoshoni Expansion in the Great Basin	David B. Madsen	83
Functional Analysis of Stone Tools: A Cautionary Note on the Role of Animal Fats	David S. Brose	86
State Support for Archaeological Research Programs in the Early 1970s	Timothy C. Klinger	94
COMMENT		
A Reassessment of the Precolumbian Obsidian Industry of El Chayal, Guatemala	Payson D. Sheets	91
El Chayal, Guatemala: A Chronological and Behavioral Reassessment	Joseph W. Michels	103
The Ecological Approach to Archaeology: Are We Really Trying?	Karl W. Butzer	100
Analogy and the Acceptance of Theory in Archaeology	M. J. Morwood	11
PUBLICATIONS RECEIVED		11'
CONTRIBUTORS		12