american antiquity

JOURNAL OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

VOLUME 42 NUMBER 1

JANUARY 1977

OFFICERS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

President: RAYMOND H. THOMPSON, Department of Anthropology, University of Arizona, Tucson, Arizona 85721.

President-elect: CYNTHIA IRWIN-WILLIAMS, Department of Anthropology, Eastern New Mexico University, Portales, New Mexico 88130.

Secretary: ALFRED E. JOHNSON, Department of Anthropology, University of Kansas, Lawrence, Kansas 66045.

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

Treasurer-elect: JEFFREY S. DEAN, Laboratory of Tree-Ring Research, University of Arizona, Tucson, Arizona 85721.

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

 Executive Committee Members: W. JAMES JUDGE (to 1977), Department of Anthropology, University of New Mexico, Albuquerque, New Mexico 87106; HESTER A. DAVIS (to 1977), University Museum, University of Arkansas, Fayetteville, Arkansas 72701; MARGARET L.
WEIDE (to 1978), Department of Anthropology, State University of New York, Binghamton, New York 13901; WILLIAM W. FITZHUGH (to 1978), Department of Anthropology, National Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560.

EDITORIAL STAFF OF AMERICAN ANTIQUITY

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

Associate Editor for Reviews: CHRISTOPHER S. PEEBLES, Museum of Anthropology, University of Michigan, Ann Arbor, Michigan 48109.

Associate Editor for Current Research: THOMAS P. MYERS, University of Nebraska State Museum, 14th and U Streets, Lincoln, Nebraska 68506.

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

Production Editor: ANNE D. WILLIAMS

Circulation Manager: SUSAN GRIFFIN

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, contributions intended for the Memoir series should be submitted to the Editor, 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. Spouses of members are eligible for joint membership at \$3.00 per year (subscription to American Antiquity not included). 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 © 1977 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: $11,950\pm100$ radiocarbon years: 10,000 B.C. (Z-200), if not previously cited; $1,000\pm100$ 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 42 NUMBER 1

JANUARY 1977

Frank Hole, Editor

Associate Editors: Christopher S. Peebles (Reviews), Thomas P. Myers (Current Research), Charles R. McGimsey III (Current Affairs).

Production Editor: Anne D. Williams

Circulation Manager: Susan Griffin

CONTENTS

ARTICLES	
Aboriginal Human Ecology in Owens Valley: Prehistoric	
Change in the Great Basin Robert L. Bettinger	3
The Nature of the Maya Chronological Count Michael P. Closs	18
Inauguration Dates of Three Late Classic Rulers of Tikal, Guatemala Christopher Jones	28
Dynastic Genealogies from Tikal, Guatemala:	,
Implications for Descent and Political Organization William A. Haviland	61
REPORTS	
Obsidian Hydration Studies in Highland Ecuador Robert E. Bell	68
The "Twin Stelae" of Seibal Frank J. Sanders	78
Determining Site Function: A North Peruvian	
Coastal Example Robert R. Kautz and Richard W. Keatinge	86
Potential Interpretations of "Stone Gorget" Function Cailup B, Curren, Jr.	97
Manifestations of a Conceptual Artistic Ideal Within a Prehistoric Culture George W. Gill	101
A Review of the Evidence for Early Holocene Turkeys	
in the Northern Great Basin Donald K. Grayson	110
Sources of Some Obsidian Flakes from a Paleoindian	
Site in Guatemala F. H. Stross, F. Asaro, H. V. Michel, and R. Gruhn	114
COMMENT	
Genesis I.1; Or, Teaching Archaeology to the Great Archaeology-Loving Public Brian M. Fagan	119
REVIEWS	
Doran and Hodson: Mathematics and Computers in Archaeology Cowgill	126
Murra: Formaciones Económicas y Políticas del Mundo Andino Schaedel	129
Richardson (editor): The Human Mirror: Material and Spatial Images of Man Stanislawski	131
Bonavia: Ricchata Quellccani, Pinturas Murales Prehispanicas Schaedel	133
Ubelaker: Reconstruction of Demographic Profiles from Ossuary Skeletal Samples:	
A Case Study from the Tidewater Potomac Buikstra	134
Frison: The Casper Site: A Hell Gap Bison Kill on the High Plains; Kehoe:	
The Gull Lake Site: A Prehistoric Bison Drive in Southwestern Saskatchewan;	
Wilson (editor): Applied Geology and Archaeology: The Holocene History of Wyoming Morris	136
Neuman: The Sonota Complex and Associated Sites on the	
Northern Great Plains Johnson	139
Fagan: Altithermal Occupation of the Spring Sites in the	
Northern Great Basin Fowler	140
Goodyear: Hecla II and III: An Interpretive Study of Archaeological Remains from the	
Lakeshore Project, South Central Arizona Gumerman	141
Nash: Archaeological Investigations in the Transitional Forest Zone:	142
Northern Manitoba, Southern Keewatin, N.W.T. Mayer-Oakes	143
Gerow: Co-Traditions and Convergent Trends in Prehistoric California Moratto	145
Maxwell: Archaeology of the Lake Harbour District, Baffin Island Vanstone Wright: The Nodwell Site Ramsden	146 146
Dutton: Indians of the American Southwest Ortiz	140
Dutton, mutans of the American Southwest Ornz	14/
PUBLICATIONS RECEIVED	149
CONTRIBUTORS	157

AMERICAN ANTIQUITY IS INDEXED IN THE SOCIAL SCIENCES AND HUMANITIES INDEX