

american antiquity

JOURNAL OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

VOLUME 43 NUMBER 2

APRIL 1978

OFFICERS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

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

President-elect: FRED WENDORF, Department of Anthropology, Southern Methodist University, Dallas, TX 75222.

Secretary: AFRED E. JOHNSON, Museum of Anthropology, Blake Annex A, University of Kansas, Lawrence, KS 66045.

Treasurer: JEFFREY S. DEAN, Laboratory of Tree-Ring Research, Building No. 58, University of Arizona, Tucson, AZ 85721.

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

Editor-elect: JEREMY SABLOFF, Department of Anthropology, University of New Mexico, Albuquerque, NM 87131.

Executive Committee Members: GEORGE F. MACDONALD, Archaeological Survey of Canada, National Museum of Man, National Museum of Canada, Ottawa, Ontario K1A 0M8, Canada; WILLIAM D. LIPE, Laboratory of Anthropology, Washington State University, Pullman, WA 99164; MARGARET M. LYNEIS, Department of Anthropology, University of Nevada, Las Vegas, NV 89154; WILLIAM FITZHUGH, Chairman, National Museum of Natural History, 10th Street and Constitution Avenue, Room 367, Washington, DC 20560.

EDITORIAL STAFF OF AMERICAN ANTIQUITY

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

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

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

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

Production Editor: STEPHANIE TURNER ORHAN

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. Annual membership dues include \$4.00 for a subscription to *American Antiquity*. 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, DC 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 © 1978 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: 10,000 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 43 NUMBER 2

APRIL 1978

Frank Hole, *Editor*

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

Production Editor: Stephanie Turner Orhan

Circulation Manager: Susan Griffin

CONTRIBUTIONS TO ARCHAEOLOGICAL METHOD AND THEORY

edited by Michael B. Schiffer

CONTENTS

ARTICLES

- Taking the Pulse of Method and Theory in American Archaeology *Michael B. Schiffer* 153
The Status of Archaeological Research Design in Cultural
Resource Management *Albert C. Goodyear, L. Mark Raab, and Timothy C. Klinger* 159
What Can Systems Theory Do for Archaeology? *Merrilee H. Salmon* 174
Archaeology Beyond Anthropology *George J. Gumerman and David A. Phillips, Jr.* 184
Style and Function: A Fundamental Dichotomy *Robert C. Dunnell* 192
Trajectory Discontinuity and Morphogenesis: the Implications
of Catastrophe Theory for Archaeology *Colin Renfrew* 203
Pattern Recognition in Historical Archaeology *Stanley South* 223
The Awful Truth About Statistics in Archaeology *David Hurst Thomas* 231
Individuals and Their Artifacts: An Experimental Study in
Archaeology *James N. Hill* 245
Optimal Location in Settlement Space: A Model for Describing
Location Strategies *John J. Wood* 258
A Conceptual Framework for the Study of
Artifact Loss *Jacqueline R. Fehon and Sandra C. Scholtz* 271
Pathways Revisited: A Quantitative Model of Discard *John A. Hildebrand* 274
Sampling in Archaeological Surveys: A Critique *Stephen Plog* 280
A Reply to Plog and Thomas *James W. Mueller* 286
The Size Effect: An Explanation of Variability in Surface Artifact
Assemblage Content *Charles M. Baker* 288
Changing Aims of Americanist Archaeology: A Citations Analysis
of *American Antiquity* —1946-1975 *Eugene L. Sterud* 294
The Archaeo-Ethnology of Hunter-Gatherers or The Tyranny
of the Ethnographic Record in Archaeology *H. Martin Wobst* 303

REVIEWS

- Murdock and O'Leary: Ethnographic Bibliography of North America *Ford* 310
Hudson: The Southeastern Indians *Brain* 310
Newman and Salwen (editors): Amerinds and Their Paleoenvironments
in Northeastern North America *Barnes* 313
Cressman: Prehistory of the Far West: Homes of Vanished Peoples *Carlson* 315
Nicholson (editor): Origins of Religious Art and Iconography in
Preclassic Mesoamerica *Henderson* 316

CONTRIBUTORS

319

AMERICAN ANTIQUITY IS INDEXED IN THE SOCIAL SCIENCES AND HUMANITIES INDEX