# RADIOCARBON. LTD.

### **Quality Carbon-14 Analyses**

with the

Personal Jouch

Address inquiries for information to the attention of:

Charles S. Tucek

Rt. 2, Box 21E Lampasas, Texas 76550 Telephone 512 / 556-2301

You Dig Our Dates

---- o --<del>---</del>

## american antiquity

Index 1935-1965

VOLUMES 1-30

\$3.50 per copy to members \$5.00 to non-members

address orders to SOCIETY FOR AMERICAN ARCHAEOLOGY

Publications Department ● 1703 New Hampshire Ave., N.W. ● Washington, D.C. 20009

- please enclose payment with orders -

the balance is in your favor

# 5000 RADIOCARBON SAMPLES ANALYZED

# TELEDYNE ISOTOPES

50 VAN BUREN AVE., WESTWOOD, N.J. 07675 PHONE: 201-664-7070 TELEX: 134-474

15 YEARS OF EXPERIENCE

701

#### EASTERN ARCTIC PREHISTORY: PALEOESKIMO PROBLEMS

Eastern Arctic Prehistory: Paleoeskimo Problems, Memoir 31 of the Society for American Archaeology, edited by Moreau S. Maxwell, is now available.

Because of the Arctic's environmental constraints and the necessarily limited scope of human biocultural adaptive response, much can be learned there about general cultural processes and systems, at least among hunters, from data not available in more temperate regions. But Arctic study by its nature tends to be isolative. Unlike their colleagues to the south, researchers cannot jump in a car and visit a site where a fellow archaeologist is recovering similar data, and the opportunity for intellectual interchange at meetings is all too short. Eastern Arctic Prehistory is the product of a unique opportunity for ten well-known "chapped-hand" archaeologists to steep themselves for a full week in joint discussion seeking understanding of the processes of human behavior through pursuit of those whom modern Inuit call Tunit.

Contributions by Robert McGhee, James A. Tuck, Guy Mary-Rousselière, Moreau S. Maxwell, Albert A. Dekin, Jr., William Fitzhugh, Elmer Harp, Jr., and Ronald J. Nash call into question "the whole temporal matrix on which we base our interpretations of change, contact, and diffusion," and the simplicity of a former model of culture contact between Dorset and Thule, suggest previously unsuspected nexi linking marginal peoples, and point interesting new directions for the pursuit of arctic prehistory.

Please note that Memoirs of the Society are no longer distributed as a benefit of membership. Cost per copy is \$3.00 to members, \$5.00 to non-members. Address orders, enclosing payment, to the Society, 1703 New Hampshire Ave., N.W., Washington, D.C. 20009.

### **Hunter-Gatherer** Subsistence and Settlement

by MICHAEL A. JOCHIM A Volume in the STUDIES IN ARCHEOLOGY Series

This book offers significant new insight into the economic behavior of hunters and gatherers. The author approaches the study of prehistoric artifacts by means of a predictive model based on archeological as well as ethnographic data. This unique model-representative of contemporary anthropological views—constitutes a number of explicit assumptions founded upon observed regularities among diverse ethnographic groups. From its construction evolves a useful set of predictions about the nature of a hunting and gathering economy in a particular environment. Applying his model to various ethnographic groups with considerable success, the author demonstrates the widespread implications this model will generate for the archeological record.

1976, 224 pp., \$13.50/£7.85 ISBN: 0-12-385450-4

### **Cultural Change** and Continuity

Essays in Honor of James Bennett Griffin

edited by CHARLES E. CLELAND A Volume in the STUDIES IN ARCHEOLOGY Series From the Preface:

. . . . The first part, 'Considerations of Variability in the Archeological Record,' presents chapters by Brose, Jelinek,

Speth and Johnson, and Spaulding. . . "Part II, 'Patterns of Culture History, offers a wide variety of papers. MacNeish revisits the Iroquois, Frison examines the Paleo-Indian occupation of the Big Horn Basin in Wyoming, Newcomb traces the development of Pecos River rock art, and both Rolingson and Chapman, perhaps with some temerity, present papers on the Mississippian. .

"In the next part, 'Patterns of Meso-american Urbanism,' Flannery and Marcus, Blanton, and Parsons discuss subjects geographically and culturally distant from the region of his own professional specialization. . .

"Yarnell, Smith, and Wright and Miller present chapters in Part IV, 'Biotic Considerations in Prehistoric Adaptation'...."

1976, 456 pp., \$24.50/£13.50 ISBN: 0-12-176050-2

### **Behavioral Archeology**

by MICHAEL B. SCHIFFER

A Volume in the STUDIES IN ARCHEOLOGY Series

Behavioral Archeology is a methodological study of broad scope, covering the nature of archeological remains and the ways of reconstructing past human behavior from those remains. Its primary emphasis concerns the need for formulating, testing, and employing archeological laws. The book demonstrates how the diverse activities of modern archeology, such as experimentation, ethnoarcheology, computer simulations, modern garbage studies, and more traditional interests, fit together into a coherent enterprise bound by the pursuit and use of general principles. The author has applied his general framework, with particular emphasis on the laws of cultural formation processes of the archeological record, to the study of chipped-stone artifacts from the Joint Site, a Pueblo III ruin in eastern Arizona.

1976, 240 pp., \$14.50/£8.00 ISBN: 0-12-624150-3

### Method and Theory in Historical Archeology

by STANLEY SOUTH

A Volume in the STUDIES IN ARCHEOLOGY Series

From the Foreword by Lewis R. Binford: Rarely is a book published that is more than of passing interest. This is one of the rare ones in that it is the first systematic comparative study of archaeological data relative to the historic period in North America. Additionally it is a book with vision, it looks beyond the data and comparative material presented, to the advancement of archaeological science. It is much more, however, than a polemicladen thesis. It is solidly based in the use of empirical material and it is modest in that while looking beyond the materials and specific arguments presented it does not attempt to go beyond the current state of the field; instead it is concerned with building a sound research foundation for envisioned progress in science.

1976, about 275 pp., in preparation ISBN: 0-12-655750-0

Send payment with order and save postage plus 50¢ handling charge. Prices are subject to change without notice.

### **Academic Press**

A Subsidiary of Harcourt Brace Jovanovich Publishers 111 FIFTH AVENUE, NEW YORK, N.Y. 10003 24-28 OVAL ROAD, LONDON NW1 7DX

# PUBLICATIONS IN ANTHROPOLOGY SERIES

### Nebraska State Historical Society

1500 R Street

Lincoln, Nebraska 68508

1. Woodland Sites in Nebraska, by Marvin F. Kivett

Excavations in village and burlal sites of the Woodland Period in Hitchcock, Hooker and Platte counties, Nebraska. Discussion of Woodland in Central Plains and surrounding areas is also included. (Published 1952, reprint 1970, 102 pages, \$6.00)

- 2. The Northwest Gun, by Charles Hansen, Jr. (Out of Print)
- 3. Pawnee and Lower Loup Pottery, by Roger T. Grange, Jr.

A study of pottery from Pawnee and Lower Loup sites in Central PlaIns, excavated by Nebraska State Historical Society and University of Nebraska. Relative temporal and cultural positions of sites, as Indicated by ceramics, are discussed. (Published 1968, 236 pages, \$6.00)

4. Prehistoric Village Sites in Eastern Nebraska,

by David M. Gradwohl

Reports of the Intensive investigation of site in Missouri Bluffs region of Nebraska. History of archeological research in area is discussed and prehistoric settlement of the area considered. (Published 1970, 206 pages, \$6.00)

 Archeological Salvage and Survey in Nebraska
 by Gayle F. Carlson and

Richard E. Jensen

Results of Highway Arches

Results of Highway Archeological Salvage program (1965–1968), including excavations at Linwood Site, 25BU1, a Pawnee and Lower Loup site in Butler County; historical and

- prehistoric sites in Deuel County, Nebraska. A second section deals with archeological survey in Cheyenne County. (Published 1973, 240 pages, \$6.00)
- 6. The Sonota Complex and Associated Sites on the Northern Great Plains.

by Robert W. Neuman with an Appendix on the Human Skeletal Remains.

by William M. Bass and Terrell W. Phenice

Detailed report of excavations by the author at Woodland camp site and four Woodland burial mound sites on the Northern Plains. Results compared with those from similar sites excavated by others. Relationships to the north, and to the southeast with Woodland groups are discussed. New information on physical type and burial practices of Woodland Indians. (Published 1975, 216 pages, \$6.00)

7. Archeological Investigations at the Crow Creek Site (39BF11), Fort Randall Reservoir Area, South Dakota,

by Marvin F. Kivett and Richard E. Jensen

Excavations at the multi-component Crow Creek site. Two major occupations provided most of data. Younger of the two (Wolf Creek component) is representative of Initial Horizon of Coalescent Tradition; older (Crow Creek component) is representative of Initial Horizon of Middle Missouri Tradition. Relationships between this and other area sites are discussed. (Published 1976, 222 pages, \$6.00)



All books softbound, 73/4 x 101/2". Order from Nebraska State Historical Society (Nebraska residents add tax), 1500 R, Lincoln, Nebraska 68508

#### PUBLICATIONS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

Send orders for American Antiquity, Archives of Archaeology, Memoirs, and 30-Year Index according to information given below. For publications available from the Society for American Archaeology, the address is 1703 New Hampshire Ave., N.W., Washington, D.C. 20009. Remittance must accompany orders. The publications of the Society are not available for exchange.

#### AMERICAN ANTIQUITY

A quarterly review of American Archaeology, edited by FRANK HOLE (Rice University).

Back issues are to be purchased from Kraus Reprint Corp., Route 100, Milwood, NY 10546. Reprinted issues currently available are:

Vols. 1 to 20 (paperbound - \$20 per volume). Vols. 1 to 20 (paperbound - \$400 complete). Vols. 1 to 20 (clothbound - \$460 complete).

Volumes 21 to 33 are also available, some from the remaining inventory of the original issue. Prices for these volumes are available on request from Kraus Reprint.

Volumes 34 through 39 (except Vol. 37, which is out of print) are available from the Society for American Archaeology. \$5.00 per copy of individual issue (members \$3.50).

#### MEMOIRS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

Occasional publications of monograph length, edited by H. MARTIN WOBST (University of Massachusetts). *Memoirs* 1-17 are available from Kraus Reprint. Individual members of the Society for American Archaeology are entitled to a 25 percent discount from Kraus (membership must be noted on order).

The following Memoirs are available from the Society for American Archaeology:

- 18. Issaquena: An Archaeological Phase in the Yazoo Basin of the Lower Mississippi Valley. ROBERT E. GREENGO. xviii+128 pages, 44 figures, 85 tables. 1964. \$4.50 (members \$2.00).
- 19. Contributions of the Wetherill Mesa Archaeological Project, assembled by DOUGLAS OSBORNE and edited by BERNARD S. KATZ. xviii+230 pages, 154 figures, 28 tables. 1965. \$7.50 (members \$4.00).
- 22. The Arnapik and Tyara Sites: An Archaeological Study of Dorset Culture Origins. WILLIAM E. TAYLOR, JR. xiii+129 pages, 27 figures, 23 tables. 1968. \$4.50 (members \$2.00).
- 23. The Browne Site: Early Milling Stone Horizon in Southern California. ROBERTA S. GREENWOOD. ix+72 pages, 34 figures, 12 tables. 1969. \$3.00 (members \$2.00).
- 24. Archaeology at Hatchery West. LEWIS R. BINFORD and SALLY R. BINFORD, ROBERT WHALLON, MARGARET ANN HARDIN. vii+91 pages, 23 figures, 66 tables. 1970. \$3.50 (members \$2.50).
- 26. The Olsen-Chubbuck Site: A Paleo-Indian Bison Kill. JOE BEN WHEAT. x+180 pages, 47 figures, 23 tables. 1972. \$5.50 (members \$3.00).
- 27. Demographic Models for Anthropology. KENNETH M. WEISS. ix+186 pages, 6 figures, 25 tables, 3 appendices. 1973. \$5.50 (members \$3.00).
- 28. The Use of Sampling in Archaeological Survey. JAMES W. MUELLER. xi+91 pages, 7 figures, 38 tables, 3 appendices. \$3.50 (members \$2.50).
- 29. A Model of Band Society. B. J. WILLIAMS. xiii+138 pages, 25 figures, 5 tables, appendix. 1974. \$6.00 (members \$3.50).
- 30. Population Studies in Archaeology and Biological Anthropology: A Symposium. ALAN C. SWEDLUND, ed. v+133 pages, 24 figures, 12 tables. 1975. \$6.00 (members \$3.50).
- 31. Eastern Arctic Prehistory: Paleoeskimo Problems. MOREAU S. MAXWELL, ed. vi+170 pages, 54 figures, 18 tables, 1976. \$5.00 (members \$3.00).

#### 30-YEAR INDEX, VOLUMES 1-30

Issued as American Antiquity, Vol. 37, No. 3, Pt. 2. 1972. i + 189 pages. \$5.00 (members \$3.50).

#### ARCHIVES OF ARCHAEOLOGY

Publication of new items in this series ceased in 1971. The Archives contain a Microcard record of primary documentation of archaeological investigations and related materials pertaining to the New World, edited by DAVID A. BAERREIS. Order from the University of Wisconsin Press, 430 Sterling Court, Madison, Wisconsin 53701. Remittance should accompany order. A list of available publications appears in American Antiquity 34:364 (1969).

#### CONTENTS

Society Announcements		41
ARTICLES The Processes of Farming Diffusion in the Southwest and Great Basic Prehispanic Architecture and Sculpture in Central Yucatan Classic Maya Obsidian Trade Demographic Correlations of the Wari Conquest of Junin	in Joseph C. Winter David F. Potter Raymond V. Sidrys David L. Browman	42: 430 449 46:
REPORTS		
New Clues to Stone Tool Function: Plant and Animal Residues Reconstructing Ceramic Assemblages: An Experiment to Derive the Morphology and Capacity of	Frederick L. Briuer	478
Parent Vessels from Sherds  Comparison of Iron Meteoritic Material from Ohio	Ericson and Suzanne P. De Atley	484
	ome Kimberlin and John T. Wasson	489
	Paul E. Minnis and Steven LeBlanc	491
Application of Orthophoto Mapping to Archaeological Problems El		493
	Gary W. Carriveau and Mark C. Han	49° 500
A New Approach to the Significance of the "Weighted" Spear Throw On the Orientation of Precolumbian Buildings in	wer John L. Palter	300
	ony F. Aveni and Sharon L. Gibbs	510
	B. Sollberger and L. W. Patterson	513
	ch, L. Mark Raab, and R. C. Busch	531
A Preliminary Analysis of Antemortem Tooth Loss Among	,	
the Fremont Ed	ward E. Graham and John Burkart	534
COMMENT		
Rethinking the Ware Concept Cultural Hiatus in the Eastern Great Basin?	Prudence M. Rice C. Melvin Aikens	538 543
CURRENT RESEARCH		551
REVIEWS		567
CONTRIBUTORS		584
SOCIETY FOR AMERICAN ARCHAEOLOGY		586
MEMBERSHIP OF THE SOCIETY FOR AMERICAN ARCHAEOLOG	Y	599
INDEX OF VOLUME 41		693