

# Ancient Mesoamerica

---

*Contents to Volume 5, 1994*



# Ancient Mesoamerica

---

## Co-Editors

William R. Fowler, Jr.  
*Department of Anthropology  
Vanderbilt University*

Stephen D. Houston  
*Department of Anthropology  
Brigham Young University*

**Editorial Assistant:** Alexander F. Christensen

## Editorial Board

Frances F. Berdan, *California State University, San Bernardino*

Ronald L. Bishop, *Smithsonian Institution*

Warwick M. Bray, *Institute of Archaeology, University of London*

Lyle R. Campbell, *Louisiana State University*

Pedro Carrasco, *State University of New York, Stony Brook*

Noemí Castillo Tejero, *Instituto Nacional de Antropología e Historia, México*

George L. Cowgill, *Arizona State University*

Arthur A. Demarest, *Vanderbilt University*

Richard A. Diehl, *University of Alabama*

David C. Grove, *University of Illinois*

Norman Hammond, *Boston University*

Peter Harrison, *University of New Mexico*

Kenneth G. Hirth, *Pennsylvania State University*

Barry L. Isaac, *University of Cincinnati*

Stephen A. Kowalewski, *University of Georgia*

Linda Manzanilla, *Universidad Nacional Autónoma de México*

Juan Pedro Laporte Molina, *Universidad de San Carlos*

Jeffrey R. Parsons, *University of Michigan*

Esther Pasztory, *Columbia University*

Hanns J. Prem, *Universität Bonn*

Robert J. Sharer, *University of Pennsylvania*

Payson D. Sheets, *University of Colorado*

Michael E. Smith, *State University of New York, Albany*

Michael W. Spence, *University of Western Ontario*

Ronald Spores, *Vanderbilt University*

Karl Taube, *University of California*

B.L. Turner, II, *Clark University*

Emily Umberger, *Arizona State University*

Phil C. Weigand, *Museum of Northern Arizona*

David Webster, *Pennsylvania State University*

Daniel Wolfman, *Museum of New Mexico*

Eliás Zamora Acosta, *Universidad de Sevilla*

**Ancient Mesoamerica** is a semi-annual international forum for the method, theory, substance, and interpretation of Mesoamerican archaeology, art history, ethnohistory, historical linguistics, and related fields. The journal will publish original research papers, theoretical articles, and substantive reports of field research.

## Editorial Office

**Ancient Mesoamerica**, Editorial Office, Vanderbilt University, P.O. Box 6307-B, Nashville, TN 37235, USA. Telephone: (615) 343-6123. Facsimile: 615-343-0230.

## Publishing, Subscription, and Advertising Offices

Cambridge University Press, 40 West 20th Street, New York, NY 10011, USA; The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, England.

## Subscription Information

**Ancient Mesoamerica** is published biannually. Annual subscription rates for Volume 5 (1994): Institutional, US \$105.00 in North America, UK £63.00 elsewhere; Individual, US \$52.00 in North America, UK £32.00 elsewhere.

**Indexing.** This journal is covered in *Anthropological Literature*.

Copyright © 1994 Cambridge University Press

All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronic, photocopying or otherwise, without written permission from Cambridge University Press.

*Photocopying information for users in the USA:* The Item-Fee Code for this publication (0956-5361/94 \$5.00 + .00) indicates that copying for internal or personal use beyond that permitted by Sec. 107 or 108 of the U.S. Copyright Law is authorized for users duly registered with the Copyright Clearance Center (CCC) Transaction Reporting Service, provided that the appropriate remittance of \$5.00 per article is paid directly to: CCC, 222 Rosewood Drive, Danvers, MA 01923. Specific written permission must be obtained from Cambridge University Press for all other copying. Contact the *ISI Tearsheet Service*, 3501 Market Street, Philadelphia, PA 19104, for single copies of separate articles.

Printed in the United States of America.

Contents to Volume 5, 1994	291
Arnold, Philip J. III, <i>An Overview of Southern Veracruz Archaeology</i>	215
Braswell, Geoffrey E., E. Wyllys Andrews V, and Michael D. Glascock, <i>The Obsidian Artifacts of Quelepa, El Salvador</i>	173
Curet, L. Antonio, Barbara L. Stark, and Sergio Vásquez Z., <i>Postclassic Changes in Veracruz, Mexico</i>	13
Drennan, Robert D., <i>What Can Be Learned by Estimating Human Energy Costs?</i>	209
Dunning, Nicholas P., and Jeff Karl Kowalski, <i>Lords of the Hills: Classic Maya Settlement Patterns and Political Iconography in the Puuc Region, Mexico</i>	63
Fedick, Scott L., <i>Ancient Maya Agricultural Terracing in the Upper Belize River Area: Computer-Aided Modeling and the Results of Initial Field Investigations</i>	107
Gillespie, Susan D., <i>Llano del Júcaro: An Olmec Monument Workshop</i>	231
Grove, David C., <i>La Isla, Veracruz, 1991: A Preliminary Report, with Comments on the Olmec Uplands</i>	223
Kepecs, Susan, Gary Feinman, and Sylviane Boucher, <i>Chichen Itza and Its Hinterland: A World-Systems Perspective</i>	141
Kievit, Karen A., <i>Jewels of Cerén: Form and Function Comparisons for the Earthen Structures of Joya de Cerén, El Salvador</i>	193
Lambert, Joseph B., Elizabeth Graham, Marvin T. Smith, and James S. Frye, <i>Amber and Jet From Tipu, Belize</i>	55
McCafferty, Sharisse D., and Geoffrey G. McCafferty, <i>The Conquered Women of Cacaxtla: Gender Identity or Gender Ideology?</i>	159
McKillop, Heather, <i>Ancient Maya Tree Cropping: A Viable Subsistence Adaptation for the Island Maya</i>	129
Santley, Robert D., <i>The Economy of Ancient Matacapán</i>	243
Scarborough, Vernon L., Robert P. Connolly, and Steven P. Ross, <i>The Pre-Hispanic Maya Reservoir System at Kinal, Peten, Guatemala</i>	97
Schultz, Kevan C., Jason J. Gonzalez, and Norman Hammond, <i>Classic Maya Ballcourts at La Milpa, Belize</i>	45
Sisson, Edward B., and T. Gerald Lilly, <i>A Codex-Style Mural From Tehuacan Viejo, Puebla, Mexico</i>	33
Smith, Michael E., Cynthia Heath-Smith, Ronald Kohler, Joan Odess, Sharon Spanogle, and Timothy Sullivan, <i>The Size of the Aztec City of Yautepec: Urban Survey in Central Mexico</i>	1
Stark, Barbara L., and L. Antonio Curet, <i>The Development of the Classic-Period Mixtequilla in South-Central Veracruz, Mexico</i>	267

**MIT's**

# Powerful Reading

## **THE SOUNDS AND COLORS OF POWER** **The Sacred Metallurgical Technology of Ancient West Mexico**

*Dorothy Hosler*

This is a groundbreaking analysis of the relationship between culture and technology. Dorothy Hosler, an archaeologist, metallurgist, and anthropologist, shows how the methods of materials science, augmented by archaeological and other sources of data, can be used to illuminate historical puzzles such as the origins of the unique metallurgy developed in West Mexico between the seventh and sixteenth centuries.

Hosler traces the roots of this technology to Central and South America and establishes that it was introduced to West Mexico in two separate waves, both traveling along a maritime trade route originating in Ecuador and extending as far south as central and southern Peru. She then shows how West Mexican smiths transformed the elements of the technology (including alloy systems, fabrication methods, and artifact designs) to reflect their own perceptions of what were for them late-appearing materials, in that they were introduced some time after the foundations of civilization had appeared in their land.

The central question Hosler addresses is why West Mexicans chose not to exploit the utilitarian properties of metals but focused instead on what seem to us to be incidental properties of sound and color.

416 pp. 124 illus. \$50.00

To order call toll-free  
1-800-356-0343  
(US & Canada) or  
(617) 625-8569.  
MasterCard & VISA  
accepted. Prices  
will be higher  
outside the U.S.  
and are subject to  
change without  
notice.

**The MIT Press**  
**55 Hayward St.**  
**Cambridge, MA**  
**02142 &**  
**Fitzroy House**  
**11 Chenies St.**  
**London WC1E**  
**7ET**  
**ENGLAND**



# Ancient Mesoamerica

## Instructions for Contributors

*Ancient Mesoamerica* will publish primarily in English, but will also feature contributions in Spanish. All papers will have Spanish (or English) summaries as a regular feature to enhance scholarly communication. When preparing your contribution, please remember that *Ancient Mesoamerica* unifies several different fields from archaeology to ethnohistory, art history and beyond. We also wish to reach nonspecialist readers. While some degree of technical language is often proper and necessary, jargon can always be avoided. Therefore, authors should strive for clear, lucid prose. The Editors will gladly discuss topics or contents of manuscripts prior to submission.

### Manuscript Submission

Please submit 5 copies of the manuscript text and line drawings; colleagues with limited photocopying facilities may send only 1 copy. If photographs are included, only one set of original prints should be sent, along with 4 photocopies. Double-space the entire manuscript, including references and tables, with ample margins to permit editorial marking. The manuscript must be accompanied by a letter of transmittal stating that the work has not been published elsewhere, in whole or in part, nor is it under consideration for publication elsewhere. Papers may be submitted in Spanish or English. Artwork must be no larger than 24 square inches; artwork must be camera-ready and be securely packaged in a protective envelope. Mail manuscripts or make editorial inquiries to the Editorial Office (see inside cover for complete information).

### Peer Review Procedures

Each contribution will be reviewed by at least three, and sometimes as many as five, outside readers who will make recommendations to the Editors concerning revision of the manuscript, acceptance or rejection. The reviewers' anonymous comments will be passed on to the authors.

### Categories of Papers

(a) *Full articles* are longer contributions of general interest that are 25–30 double-spaced manuscript pages in length, including references; (b) *reports* are shorter contributions of about 15–20 pages in length focusing on important finds, reinterpretations, comments, and so on. The Editors or a Guest Editor will occasionally assemble a special section of related reports; and (c) *notes* are newsworthy items of a very short length.

### Editorial and Reference Style

In general, follow *American Antiquity* style. Two abstracts of 150 words or less should be included: one in English and one in Spanish. Footnotes may be used, but only if deemed absolutely necessary; they should be numbered consecutively and collected at the end of the text. The order of manuscript ele-

ments should be as follows: title page, abstracts pages, main text, Spanish summary, acknowledgments, footnotes, references, tables, and figures (line drawings and photographs in a protective envelope). Tables and figures should be numbered consecutively using Arabic numerals. Sample references:

Adams, Richard E. W.

1977 *Prehistoric Mesoamerica*. Little, Brown, Boston.

Clark, John E., and Thomas A. Lee, Jr.

1984 Formative Obsidian Exchange and the Emergence of Public Economies in Chiapas, Mexico. In *Trade and Exchange in Early Mesoamerica*, edited by Kenneth G. Hirth, pp. 100–105. University of New Mexico Press, Albuquerque.

Graham, Elizabeth

1987 Resource Diversity in Belize and Its Implications for Models of Lowland Trade. *American Antiquity* 52:753–767.

Love, Michael W.

1987 *Olmec Interaction and the Formation of Social Inequality in Pacific Guatemala*. Paper presented at the 86th Annual Meeting of the American Anthropological Association, Chicago.

Smith, Michael E.

1988 *Long-Distance Trade under the Aztec Empire: The Archaeological Evidence*. Unpublished manuscript on file, Department of Sociology and Anthropology, Loyola University of Chicago.

### Illustrations

All figures must be camera-ready and be of professional quality. Please send oversize artwork for reduction to size or high-contrast photostats already reduced to exact size. Please allow for reduction when judging type size for captions. Put scales on the figures, not in legends.

### Electronic Input

After a contribution is accepted, the Editors will ask the author to submit the article on a floppy disk, if possible. When doing so, please specify the type of computer used, the operating system, and program (e.g., IBM-PC, PC-DOS, WordPerfect). The electronic manuscript should be limited to standard ASCII characters, with two returns between all text elements, with two returns between each paragraph and reference, and with all lines beginning flush left. Omit formatting codes for indenting, centering, etc. If you do not use a word processor, your manuscript will be typeset in the traditional manner.

### Copyright and Offprints Policy

Contributors must complete the Transfer of Copyright Agreement form, available from the Editors, before their paper can be transmitted for production. The lead author of each article or report will receive 25 free offprints from the Publisher, with the opportunity to purchase additional offprints and complete copies of the issue at favorable rates.

# Ancient Mesoamerica

Volume 5, Number 2

Fall 1994

## ARTICLES

- |   |   |     |
|---|---|-----|
| Chichen Itza and Its Hinterland: A World-Systems Perspective  | <i>Susan Kepecs<br/>Gary Feinman<br/>Sylviane Boucher</i>                   | 141 |
| The Conquered Women of Cacaxtla: Gender Identity or Gender Ideology?                                    | <i>Sharisse D. McCafferty<br/>Geoffrey G. McCafferty</i>                    | 159 |
| The Obsidian Artifacts of Quelepa, El Salvador  | <i>Geoffrey E. Braswell<br/>E. Wyllys Andrews V<br/>Michael D. Glascock</i> | 173 |
| Jewels of Cerén: Form and Function Comparisons for the Earthen Structures of Joya de Cerén, El Salvador | <i>Karen A. Kievit</i>  | 193 |
| What Can Be Learned by Estimating Human Energy Costs?   | <i>Robert D. Drennan</i>  | 209 |

## SPECIAL SECTION: SOUTHERN VERACRUZ ARCHAEOLOGY

- |   |  |     |
|---|--|-----|
| Introduction  | <i>William R. Fowler, Jr.</i>                | 213 |
| An Overview of Southern Veracruz Archaeology  | <i>Philip J. Arnold III</i>                  | 215 |
| La Isla, Veracruz, 1991: A Preliminary Report, with Comments on the Olmec Uplands   | <i>David C. Grove</i>                        | 223 |
| Llano del Jícaro: An Olmec Monument Workshop  | <i>Susan D. Gillespie</i>                    | 231 |
| The Economy of Ancient Matacapán  | <i>Robert S. Santley</i>                     | 243 |
| The Development of the Classic-Period Mixtequilla in South-Central Veracruz, Mexico | <i>Barbara L. Stark<br/>L. Antonio Curet</i> | 267 |
| Contents to Volume 5, 1994  |  | 289 |

**CAMBRIDGE**  
UNIVERSITY PRESS



0956-5361(199411)5:2;1-J