

Announcing a New Series

MESOAMERICAN WORLDS

FROM THE OLMECS TO THE DANZANTES

General Editors: David Carrasco, Princeton University Eduardo Matos Moctezuma, Museo del Templo Mayor, Mexico City

NEW TITLES IN THE SERIES

Twin City Tales

A Hermeneutical Reassessment of Tula and Chichén Itzá *Lindsay Jones*

"An exciting read that is sure to give scholars and students alike a fresh new way to look at and talk to the Mesoamerican ruins."

— Anthony F. Aveni, Colgate University

cloth, 496 pages, 110 illus., ISBN: 0-87081-403-6, \$45.00

Utopia and History in Mexico

The First Chronicles of Mexican Civilization, 1520–1569

Georges Baudot

Translated by Bernard R. Ortiz de Montellano and Thelma Ortiz de Montellano cloth, 576 pages, ISBN: 0-87081-401-x, \$49.95

Life and Death in the Templo Mayor

Eduardo Matos Moctezuma paper, 152 pages, ISBN: 0-87081-400-1, \$14.95

The Offerings of the Templo Mayor of Tenochtitlan

Leonardo López Luján Translated by Bernard R. Ortiz de Montellano and Thelma Ortiz de Montellano cloth, 542 pages, ISBN: 0-87081-318-8, \$39.95



Available from

University Press of Colorado

P.O. Box 849 Niwot, Colorado 80544 Order Toll Free: 1-800-268-6044



TEXAS

ASTRONOMY AND EMPIRE IN THE ANCIENT ANDES

By Brian S. Bauer and David S. P. Dearborn

In this comprehensive exploration of Inca skywatching, an archaeologist and an astrophysicist join forces to offer a new model of Inca cosmology.

22 b&w photos, 9 maps, 14 figures, 7 tables \$14.95 paper, \$37.50 cloth

THE KARANKAWA INDIANS OF TEXAS

An Ecological Study of Cultural Tradition and Change

By Robert A. Ricklis

The first modern, well-researched history of the Karankawa from prehistoric times until their extinction in the nineteenth century. Of wide interest to those studying the interactions of Native American and European peoples.

4 b&w photos, 30 line drawings, 4 maps, 14 tables \$16.95 paper, \$35.00 cloth

THE STONE AND THE THREAD

Andean Roots of Abstract Art

By César Paternosto Translated by Esther Allen

In this engagingly written and beautifully illustrated book, a leading abstract artist unveils the masterpieces of ancient Andean art long secluded in anthropological and natural history museums.

127 b&w photos, 5 maps, 40 figures \$35.00 cloth

Now in Paperback

NATIVE AMERICAN MATHEMATICS

Edited by Michael P. Closs

"Of interest to a wide audience, not just students of mathematics and its history, and is highly recommended for personal reading and general library acquisition."

— HISTORIA MATHEMATICA

illustrated \$19.95 paper





UNIVERSITY OF TEXAS PRESS

Box 7819 • Austin 78713 • At fine bookstores, or call 800-252-3206.



Statement of Ownership, Management, and Circulation (Required by 39 U.S.C. 3685)

1. Publication Title			2	. Put	olicati	on No	D.			3. Filing Date
Latin American Antiquity	1	0	4	5	-	6	6	3 5	5	9/27/95
4. Issue Frequency quarterly (Mar, June, Sept, Dec)	5. No. of Issues Published Annually 4 \$105.00					`				
 Complete Mailing Address of Known Office of Publication (Street, City, Count Society for American Archaeology, 900 Second St 	y, Sta	ite, a	nd Z	1P+4 #12) (Not	Prin ash	<i>ter)</i> i ng	ton,	, D	C 20002-3557
8. Complete Mailing Address of Headquarters or General Business Office of Pu See above	blishe	er (No	ot Pri	inter))					
Full Names and Complete Mailing Addresses of Publisher, Editor, and Manage	ina Ei	ditor	(Do	Not I	eave	Blan	(k)			
Publisher (Name and Complete Mailing Address) Society for American Archaeology, 900 Second S								ton	, [OC 20002-3557
Editor <i>(Name and Complete Mailing Address)</i> David Pendergast, Department of New World Archa Park, Toronto, Ontario, Canada M5S 2C6	aeo]	logy	у,	Roy	al.	Ont	ari	o M	use	eum, 100 Queen's
Managing Editor (Name and Complete Mailing Address) Janet Walker, Society for American Archaeology 20002-3557	, 90	00	Sec	onc	i St	ree	et N	NE #	12	, Washington, DC
10. Owner (If owned by a corporation, its name and address must be stated and or holding 1 percent or more of the total amount of stock. If not owned by a owned by a partnership or other unincorporated firm, its name and address by a nonprofit organization, its name and address must be stated.) (Do Not	corpo as we	ratio ell as	n, the that	e nan	nes a	nd ac	ddres	ses of	f the	individual owners must be given. If
Full Name						Cor	nple	te Mai	iling	Address
Society for American Archaeology								NE # 02-3		
Known Bondholders, Mortgagees, and Other Security Holders Owning or Holders Countries. If none, check here.	olding) 1 Pe	ercer	nt or	More	of To	tal A	mount	t of E	Bonds, Mortgages, or Other
Full Name						Co	mple	te Ma	iling	3 Address
12. For completion by nonprofit organizations authorized to mail at special rate: status for federal income tax purposes: (Check one) Has Not Change (If changed,	nged d Dur	Durio ina P	ng P rece	reced	ding 1 12 M	2 Mo	onths s			s of this organization and the exempt with this statement)
PS Form 3526 , October 1994 (See Instruction	(See Instructions on Reverse)									

13. Publication Name Latin American Antiquity	14. Issue Date for Circulation Data Below June 1995					
15. Extent and Nature of Circulation	Average No. Copies Each Issue During Preceding 12 Months	Actual No. Copies of Single Issue Published Nearest to Filing Date				
a. Total No. Copies (Net Press Run)	1,440	1,400				
b. Paid and/or Requested Circulation (1) Sales Through Dealers and Carriers, Street Vendors, and Counter Sales (Not Mailed)	0	0				
(2) Paid or Requested Mail Subscriptions (Include Advertisers' Proof Copies/Exchange Copies)	1,168	1,220				
c. Total Paid and/or Requested Circulation (Sum of 15b(1) and 15b(2))	1,168	1,220				
d. Free Distribution by Mail (Samples, Complimentary, and Other Free)	12	12				
e. Free Distribution Outside the Mail (Carriers or Other Means)	0	0				
f. Total Free Distribution (Sum of 15d and 15e)	12	12				
g. Total Distribution (Sum of 15c and 15f)	1,180	1,232				
h. Copies Not Distributed (1) Office Use, Leftovers, Spoiled	255	228				
(2) Return from News Agents	0	0				
i. Total (Sum of 15g, 15h(1), and 15h(2))	1,435	1,460				
Percent Paid and/or Requested Circulation (15c / 15g x 100)	98.9%	98.7%				

16. This Statement of Ownership will be printed in the December 1995 issue of this publication. \Box Check box if not requi	uired	uire
---	-------	------

Date

Janes Walker, Managing editor

9/28/95

I certify that all information furnished on this form is true and complete. I understand that anyone who furnishes false or misleading information on this form or who omits material or information requested on the form may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including multiple damages and civil penalties).

Instructions to Publishers

- Complete and file one copy of this form with your postmaster on or before October 1, annually. Keep a copy of the completed form for your records.
- Include in items 10 and 11, in cases where the stockholder or security holder is a trustee, the name of the person or corporation for whom
 the trustee is acting. Also include the names and addresses of individuals who are stockholders who own or hold 1 percent or more of the
 total amount of bonds, mortgages, or other securities of the publishing corporation. In item 11, if none, check box. Use blank sheets if
 more space is required.
- 3. Be sure to furnish all information called for in item 15, regarding circulation. Free circulation must be shown in items 15d, e, and f.
- 4. If the publication had second-class authorization as a general or requester publication, this Statement of Ownership, Management, and Circulation must be published; it must be printed in any issue in October or the first printed issue after October, if the publication is not published during October.
- 5. In item 16, indicate date of the issue in which this Statement of Ownership will be printed.
- 6. Item 17 must be signed.

Failure to file or publish a statement of ownership may lead to suspension of second-class authorization.

PS Form 3526, October 1994 (Reverse)

^{17.} Signature and Title of Editor, Publisher, Business Manager, or Owner

YOUR INVITATION

TO MEMBERSHIP

MEMBERSHIP CATEGORIES

Except as noted below, all members have voting privileges, may serve on committees, and receive SAA Bulletin, Archaeologists of the Americas, and one journal (either American Antiquity or Latin American Antiquity)—plus discounts on publications and meeting registration. Members may also choose to receive the newsletter Archaeology and Public Education, published three times each year.

□ Regular Annual dues: \$110/\$40*

Any person who is engaged in archaeology or any related aspect thereof or any person who supports the objectives of the society.

☐ Student Annual dues: \$50/\$37*

Any person matriculating in an educational institution pursuing candidacy for a degree (Associate or higher) in a field of study related to some aspect of archaeology.

☐ Retired Annual dues: \$57/\$40*

Any person who has retired from remunerative professional life.

☐ Joint Annual dues: \$23/\$12*

Any person who is the spouse or domestic partner of a Regular, Life, Retired, or Student member and who supports the objectives of the society. Receives publications via member spouse or partner.

☐ Associate Annual dues: \$34/\$23*

Any person who is not a professional archaeologist and who supports the objectives of the society. Non-voting member who does not receive a journal.

☐ Life Lifetime dues: \$2,850

Any person who supports the objectives of the society may become a Life member under conditions as determined by the Executive Board.

*Dues amounts listed above are standard and discount rates respectively: Standard Rate applies to members living in Australia, Bahrain, Bermuda, Brunei, Canada, Cyprus, Hong Kong, Israel, Japan, Korea, Kuwait, Libya, New Caledonia, New Zealand, Quatar, Saudi Arabia, Sultanate of Oman, Singapore, Taiwan, Thailand, United Arab Emirates, United States, or Western Europe. Discount Rate applies to members living in Latin America or any other country not included above.

**Additional tax-deductible contributions support SAA's initiatives and are always welcome. Thank you.

Payment must accompany application. Student members must enclose a copy of current student identification to qualify for student rate.

Membership is based on the calendar year. Applications received before September 15 are fulfilled for the current year; applications received thereafter are treated as memberships for the next year.

YES! Please enroll me as a member of the Society for American Archaeology.

Name	The state of the s					
Address						
ADDRESS						
City Sta	TE/PROVINCE	Coun	ГКУ	ZIP/POSTAL CODE		
PHONE	FAX		Ема	IL .		
SIGNATURE By my signa	asure I subscribe to SA.	A's objecti	ves			
Membership 1	Dues			\$		
Please check o	ne of the follo	owing	categories	:		
☐ Regular	_	etired	·	☐ Associate		
☐ Student	□ Jo	int		Life		
Journals				\$ <u> </u>		
As part of my	membership	dues.	I wish to			
receive the foll	•					
☐ American Ant				merican Antiquity		
Optionally, I v	subscription	rate:				
American Ant	iquity OI	3.	☐ Latin A	merican Antiquity		
\$28 for 1	Regular mem	bers li	ving in Di	indard Rate countries scount Rate countries living in any country		
☐ Send me Ar ☐ Sign me up	-					
Tax-deductible	contribution	**		\$		
TOTAL:				\$		
☐ Check or me (payable in	oney order en U.S. funds dr			ank)		
□ VISA	☐ MasterC	Card		American Express		
Card No.		Exp. Date				
Name			Signature			

Society for American Archaeology (SAA)

is an international organization dedicated to the research, interpretation, and protection of the archaeological heritage of the Americas. With more than 5,500 members, the society represents student, avocational, and professional archaeologists working in a variety of settings including government agencies, colleges and universities, museums, and the private sector.

Since its inception in 1934, SAA has endeavored to stimulate interest and research in American archaeology; advocate and aid in the conservation of archaeological resources; encourage public access to and appreciation of archaeology; oppose all looting of sites and the purchase and sale of looted archaeological materials; and serve as a bond among those interested in the archaeology of the Americas.

Please make a photocopy for yourself and leave this form for the next person. Thank you! Return to Society for American Archaeology c/o Riggs National Bank, Dept. 0123, Washington DC 20073-0123 USA

How did you hear about SAA? _



NOTICE TO AUTHORS

Latin American Antiquity publishes original papers on the archaeology, prehistory, and ethnohistory of Latin America, i.e., those countries—primarily Spanish speaking—comprising Mesoamerica, Central America, and South America, together with culturally affiliated adjacent regions. Authors submit manuscripts to the editor for consideration as ARTICLES or REPORTS in English, Spanish, or Portuguese. Authors should submit an original and three copies of their manuscripts (including all figures, tables, references, and notes), along with an abstract in both English and Spanish. Detailed information on policy, style, and technical matters of manuscript preparation is given in the "Editorial Policy, Information for Authors, and Style Guide for American Antiquity and Latin American Antiquity," which appeared in September 1992 (vol. 3, no. 3). For additional information, updates, or clarification, consult the managing editor at the SAA office in Washington, D.C.

CHANGES IN EDITORSHIPS

Latin American Antiquity Editorial Office

Beginning September 16, 1995, all manuscripts and queries about manuscripts in progress should be addressed to:

Dr. Gary M. Feinman Department of Anthropology 1180 Observatory Drive University of Wisconsin Madison, WI 53706 USA

Dr. Feinman and Dra. Linda Manzanilla (Instituto de Investigaciones Antropológicas, UNAM, Ciudad Universitaria, 04510 México, D.F.) hold the titles of coeditor-designates until the 1996 Annual Business Meeting, at which time they will both assume the title of coeditor. Questions concerning future manuscript submissions may be addressed to either coeditor. The first issue of *Latin American Antiquity* under their editorship will be June 1996.

American Antiquity Editorial Office

Beginning September 1, 1995, all manuscripts and queries about manuscripts in progress should be addressed to:

Dr. Lynne Goldstein

Department of Anthropology

Michigan State University

354 Baker Hall

East Lansing, MI 48824

Dr. Goldstein holds the title of editor-designate until the 1996 Annual Business Meeting, at which time she will assume the title of editor. The first issue of *American Antiquity* under her editorship will be July 1996.

EXECUTIVE BOARD OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

Officers

President: WILLIAM LIPE, Department of Anthropology, Washington State University, Pullman, WA 99164-

President-elect: VINCAS STEPONAITIS, Research Labs of Anthropology, University of North Carolina, Chapel Hill, NC 27599-3120

Secretary: KEITH KINTIGH, Department of Anthropology, Arizona State University, Tempe AZ 85287

Secretary-elect: LYNNE SEBASTIAN, State Historic Preservation Division, 228 East Palace Avenue, Santa Fe, NM 87501

Treasurer: ROBERT L. BETTINGER, Department of Anthropology, University of California-Davis, Box 500, Davis CA 95617

Board Members-at-Large

C. MELVIN AIKENS, Department of Anthropology, University of Oregon, Eugene, OR 97403

CATHERINE CAMERON, Department of Anthropology, University of Colorado, Campus Box 233, Boulder, CO 80309-0233

MARGARET C. NELSON, Department of Anthropology, Arizona State University, Tempe, AZ 85287

DONNA J. SEIFERT, John Milner Associates, 5250 Cherokee Avenue, Alexandria, VA 22312

GEORGE S. SMITH, Southeast Archeological Center, National Park Service, 2035 East Paul Dirac Drive, Suite 120, Box 7, Tallahassee, FL 32310

BARBARA STARK, Department of Anthropology, Arizona State University, Tempe, AZ 85287

Ex-officio Executive Board Members

Executive Director: TOBI A. BRIMSEK, Society for American Archaeology, 900 Second Street, N.E., Suite 12, Washington, DC 20002-3557

Editor, American Antiquity: MICHAEL GRAVES, Department of Anthropology, University of Hawaii, 2424 Maile Way, Porteus 346, Honolulu, HI 96822

Editor, Latin American Antiquity: DAVID M. PENDERGAST, Department of New World Archaeology, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario, Canada M5S 2C6

Editor, SAA Bulletin: MARK ALDENDERFER, Department of Anthropology, University of California, Santa Barbara, CA 93106

3 Editor's Corner

ARTICLES

- Trace-element Analysis of Obsidian Sources and Artifacts of Central Chile (Maule River Basin) and Western Argentina (Colorado River)

 Andrea Seelenfreund, Charles Rees, Roger Bird, Graham Bailey, Roberto Bárcena, and Victor Durán
- 21 Commodity or Gift: Teotihuacán Obsidian in the Maya Region Michael W. Spence
- 41 Mid-Holocene Cultural Interaction between the North Coast of Peru and Ecuador Daniel H. Sandweiss
- A Mathematical Projection of Population Growth in the Copan Valley, Honduras, A.D. 400–800 Richard R. Paine, AnnCorinne Freter, and David L. Webster
- 61 Maya Multiples: Individuals, Entries, and Tombs in Structure A34 of Caracol, Belize Diane Z. Chase and Arlen F. Chase

REVIEWS AND BOOK NOTES

Reviews

- 81 Royal Tombs of Sipán, by Walter Alva and Christopher B. Donnan Steve Bourget
- 82 Pampa Grande and the Mochica Culture, by Izumi Shimada Garth Bawden
- 83 Un sitio de Guangala Temprano en el suroeste del Ecuador, by Karen E. Stothert and Douglas H. Ubelaker Ronald D. Lippi
- Archaeology, Volcanism, and Remote Sensing in the Arenal Region, Costa Rica, edited by Payson D. Sheets and Brian R. McKee Mountains of Fire, Lands that Shake: Earthquakes and Volcanic Eruptions in the Historic Past of Central America (1505–1899), by Lawrence H. Feldman Frederick W. Lange
- 86 Early Formative Pottery of the Valley of Oaxaca, Mexico, by Kent V. Flannery and Joyce Marcus Laura Finsten
- 87 Mixteca-Puebla: Discoveries and Research in Mesoamerican Art and Archaeology, edited by H. B. Nicholson and Eloise Quiñones Keber Joyce Marcus
- Arqueología del occidente de México: nuevas aportaciones, edited by Eduardo Williams and R. Novella

 Evolución de una civilización prehispánica: arqueología de Jalisco, Nayarit, y Zacatecas, by Phil C.

 Weigand El Michoacán antiguo, coordinated by Brigitte Boehm de Lameiras

 Shirley Gorenstein
- 91 The Politics of Symbolism in the Mixtee Codices, by John M. D. Pohl Mark B. King

Book Note

92 The Indian in Spanish America: Centuries of Removal, Survival, and Integration. A Critical Anthology, Volume 1, by Jack J. Himelblau

Franklin Pease G. Y.

Book Review Comment

92 Response to Claude-François Baudez
Marilyn Beaudry-Corbett and John S. Henderson

On the cover: A jade pendant from Tomb B-4/6 at Altun Ha, Belize, ca. A.D. 650. En la portada: Un pendiente de jade de la tumba B-4/6 en Altun Ha, Belize, 650 a.C.

The paper used in this publication meets the requirements of ANSI/NISO Z39.48-1992 (Permanence of Paper).