

XXXV

**ANNUAL MEETING
SOCIETY FOR AMERICAN
ARCHAEOLOGY**



MUSEO NACIONAL DE ANTROPOLOGIA

Mexico, D. F.

April 30; May 1, 2; 1970

OFFICERS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

President: Ignacio Bernal, Instituto Nacional de Antropología e Historia, Cordoba No. 45, México 7, DF.

President-elect: Robert H. Lister, Department of Anthropology, University of Colorado, Boulder, Colo. 80302.

Secretary: T. Patrick Culbert, Department of Anthropology, University of Arizona, Tucson, Ariz. 85721.

Treasurer: Jane H. Kelley, Department of Archaeology, University of Calgary, Calgary, Alberta.

Editor: Robert E. Bell, Department of Anthropology, 455 W. Lindsey, Room 505A, University of Oklahoma, Norman, Okla. 73069.

Editor-elect: Edwin N. Wilmsen, Department of Anthropology, University of Michigan, Ann Arbor, Mich. 48104.

Executive Committee Members: Kent V. Flannery (to 1970), University Museum, University of Michigan, Ann Arbor, Mich. 48104; Charles C. Di Peso (to 1970), Amerind Foundation, Dragoon, Ariz. 85609; René Millon (to 1971), Department of Anthropology, University of Rochester, Rochester, N.Y. 14627; Robert Stuckenrath, U.S. National Museum, Washington, D.C. 20560.

Host Institution
for the
XXXV Annual Meeting
Instituto Nacional
de
Antropología e Historia.

PROGRAM COMMITTEE

Otto Schöndube B. Co-Chairman

I.N.A.H. Museo Nacional
de Antropología
México 5, D.F.

Walter Taylor Co-Chairman

Southern Illinois University,
Carbondale, Illinois. 62901.

Local Arrangments Committee

Joaquín Cortina Goribar Chairman.

I.N.A.H. Córdoba No. 45.
México 7, D.F.

GENERAL INFORMATION.

Hotel Reservations.

All arrangements for hotel reservations and sight-seeing trips may be made through the official travel service designated by the Local Arrangements Committee, which is:

Viajes Roca Internacionales S.A.
(Sr. José Antonio Salazar).
Paseo de la Reforma No. 105
México 4, D.F.
(Telephone 5-66-32-00)

Registration

The Registration Desk will be located in the Escuela Nacional de Antropología (Museum Building) and will be open on Wednesday, April 29, from 4:00 p.m. to 7:00 p.m.; Thursday, April 30, from 9:00 a.m. to 6:30 p.m.; Friday, May 1, from 9:00 a.m. to 6:30 p.m.; and Saturday, May 2, from 9:00 a.m. to 1:00 p.m.; Registration fee is \$5.00 (Dollars, U.S.C.) or \$ 62.50 (Pesos, M.N.)

Abstracts

Abstracts of papers will be available at the Registration Desk and by mail order after the close of the meetings.

Chairmen of Sessions

The names of the chairmen for the various sessions will be found in the book of abstracts.

Coffee

Coffee will be served in the Sección Educativa (Museum - Building) from 9:30 a.m. to 6:30 p.m., April 30, May 1, and 2.

Special Events.

Field Trip to Cholula.- The Instituto Nacional de Antropología e Historia invites participants in the XXXV Meeting of the Society for American Archaeology to be its guests in a field trip to the archaeological zone of Cholula, Puebla, lunch included, on Sunday, May 4. Buses leave at 9 a.m. from the Museum of Anthropology's parking lot and will return from Cholula at 4 p.m. approximately. Deadline for inscription is April 30.

SYMPOSIUMS AND SESSIONS

Symposium No. 1 The Crisis of Urban Archaeology
 Symposium No. 2 Fremont Culture
 Symposium No. 3 Western Mexico
 Symposium No. 4 Coprolite Analysis in North America
 Symposium No. 5 The Ceramic Industries of Modern Panoan Speakers and their Implications Concerning past Population Movements and Cultural Development in the Ucayali Basin of Peru

Special Session Excavaciones en Tlapacoaya, Edo. de México, México.

Session No. 1 Theory.- General I
 Session No. 2 Theory.- General II
 Session No. 3 Method.- Dating
 Session No. 4 Method.- Lithic Studies
 Session No. 5 Method.- Statistics/Computers
 Session No. 6 Method.- Typology
 Session No. 7 Method.- Site Localization
 Session No. 8 Ecology and Subsistence
 Session No. 9 Biological Problems in Archaeology
 Session No. 10 Mexico.- Formative I
 Session No. 11 Mexico.- Formative II
 Session No. 12 Mexico.- Altiplano I
 Session No. 13 Mexico.- Altiplano II
 Session No. 14 Mexico.- Oaxaca.
 Session No. 15 Mexico.- Veracruz.
 Session No. 16 Mexico.- North
 Session No. 17 Mexico.- Maya I
 Session No. 18 Mexico.- Maya II
 Session No. 19 Guatemala
 Session No. 20 South America.- Peru I
 Session No. 21 South America.- Peru II
 Session No. 21a Asia.- Pacific.
 Session No. 22 South America.- Early Man.- Outside contacts
 Session No. 23 South America and Caribbean
 Session No. 24 U.S.A.- Southwest I
 Session No. 25 U.S.A.- Southwest II
 Session No. 26 U.S.A.- Great Basin
 Session No. 27 U.S.A.- California and Plateau
 Session No. 28 U.S.A.- Midwest I
 Session No. 29 U.S.A.- Midwest II
 Session No. 30 North America.- East
 Session No. 31 North America.- Early Man I
 Session No. 32 North America.- Early Man II
 Session No. 33 North America.- Arctic.

SCHEDULE

Wednesday, April 29, 1970.
 Evening

4:00 - 7:00 Registration, Escuela Nacional de Antropología (Museum Building).

Thursday, April 30, 1970.
 Morning.

9:00 - 6:30 Registration, Escuela Nacional de Antropología (Museum Building).

9:30 - 1:00 Symposium No. 1, Room: X
 The Crisis of Urban Archaeology

9:30 - 1:00 Symposium No. 4, Room: Caso
 Coprolite Analysis in North America

9:30 - 1:00 Session No. 1, Room: Alba-Barlow
 Theory.- General I

9:30 - 1:00 Session No. 9, Room: Clavijero.
 Biological Problems in Archaeology

9:30 - 1:00 Session No. 20, Room: Sahagún:
 South America.- Perú I

9:30- 1:00 Session No. 24, Room: Auditorium
 U.S.A.- Southwest I

9:30-12:30 Session No. 28, Room: Sección Educativa.
 U.S.A.- Midwest I.

Afternoon

3:00 - 6:00 Symposium No. 1, Room: X
 The Crisis of Urban Archaeology

3:00 - 5:30 Session No. 2, Room: Alba-Barlow
 Theory.- General II

3:00 - 5:30 Session No. 10, Room: Auditorium
 Mexico.- Formative I.

3:00 - 5:00 Session No. 14, Room: Clavijero.
 Mexico.- Oaxaca.

3:00 - 6:00 Session No. 19, Room: Sección Educativa.
Guatemala.

3:00 - 5:00 Session No. 21, Room: Sahagún.
South America.- Peru II.

5:00 - 6:00 Session No. 21a, Room: Sahagún.
Asia.- Pacific.

3:00 - 6:00 Session No. 33, Room: Caso.
North America.- Arctic.

6:15 - Business Meeting, Room: Auditorium.
Afterwards Cocktail.

Friday, May 1, 1970.

Morning.

9:00 - 6:30 Registration, Escuela Nacional de Antropología
(Museum Building).

9:30 - 1:00 Special Session, Room: X
Excavaciones en Tlapacoya, Edo. de México, México.

9:30 - 1:00 Symposium No. 5, Room: Caso.
The Ceramic Industries of Modern Panoan Speakers
and their Implications Concerning past Population
Movements and Cultural Development in the Ucayali
Basin of Perú.

9:30 - 1:00 Session No. 5, Room: Alba-Barlow.
Method.- Statistics/Computers.

9:30 - 1:00 Session No. 8, Room: Clavijero.
Ecology and Subsistence.

9:30 - 1:00 Session No. 22, Room: Sahagún.
South America.- Early Man.- Outside Contacts.

9:30 - 1:00 Session No. 25, Room: Auditorium.
U.S.A.- Southwest. II

9:30- 1:00 Session No. 29, Room: Sección Educativa.
U.S.A.- Midwest II.

Afternoon.

3:00 - 5:00 Session No. 3, Room: Alba-Barlow.
Method.- Dating.

3:00 - 5:30 Session No. 7, Room: Sección Educativa.
Method.- Site localization.

3:00 - 6:00 Session No. 11, Room: Auditorium.
Mexico.-Formative II.

3:00 - 4:30 Session No. 15, Room: X.
México.- Veracruz.

3:00 - 6:00 Session No. 17, Room: Sahagún.
México.- Maya I.

3:00- 6:00 Session No. 30, Room: Caso.
North America.- East.

3:00 - 5:30 Session No. 31, Room: Clavijero.
North America.- Early Man I.

Saturday, May 2, 1970.

Morning.

9:00- 1:00 Registration, Escuela Nacional de Antropología.
(Museum Building).

9:30 - 1:00 Symposium No. 2, Room: Caso.
Fremont Culture.

9:30 - 1:00 Symposium No. 3, Room: X.
Western Mexico.

9:30 - 1:00 Session No. 6, Room: Alba-Barlow.
Method.- Typology.

9:30 - 1:00 Session No. 12.
Mexico.- Altiplano I.

9:30 - 1:00 Session No. 23, Room: Sahagún.
South America and Caribbean.

9:30 - 1:00 Session No. 26, Room: Sección Educativa.
U.S.A.- Great Basin.

9:30 - 1:00 Session No. 32, Room: Clavijero.
North America.- Early Man II.

Afternoon.

3:00 - 6:00 Symposium No. 2, Room: Caso.
Fremont Culture.

3:00 - 6:00 Symposium, No. 3, Room: X.
Western Mexico.

- 3:00 - 6:00 Session No. 4, Room: Alba-Barlow.
Method.-Lithic Studies.
- 3:00 - 6:30 Session No.13, Room: Auditorium.
México.-Altiplano II
- 3:00 - 5:00 Session No.16, Room: Sección Educativa
México.-North.
- 3:00 - 6:00 Session No.18, Room: Sahagún
México.- Maya II.
- 3:00 - 6:00 Session No.27, Room: Clavijero
U.S.A..- California and Plateau.

Sunday, May 3, 1970

Field Trip to Cholula an invitation of the Instituto Nacional de Antropología e Historia.
(See "General Information" p. 3)

PROGRAM

Symposium No. 1 The Crisis of Urban Archaeology.

Day: Thursday, April 30 Hour: 9:30 - 1:00

3:00 - 6:00

Room: X

Organizer: John L. Cotter (U.S. National Park Service)

The Crisis of Urban Archaeology.- The Premise of the Symposium.

Participantes.-

Mexico.- Gussinyer, J. (I.N.A.H.)

Un Sistema de Excavación Arqueológica en una Gran Ciudad : México.

Lorenzo B., J.L. (I.N.A.H.)

Teoría y Práctica del Salvamento Arqueológico en Zonas Urbanas.

Margain, C.R. (I.N.A.H.)

One more aspect in the possible protection of the Archaeological Remains (Cultural Wealth of the past) of any Urban Center.

U.S.A..- Ayres, J.E. (Arizona State Museum)

Problem-Oriented Historical Archaeology in Tucson, Arizona.

Ezell, F.H. (San Diego State College)

Urban Archaeology in the Pacific States.

Foley, V.P. (Moravian College)

Problems and Progress of Urban Archaeology in Bethlehem, Pennsylvania.

Salwen, B. (New York University)

Archaeology in the New York Metropolitan Area.

Sanders, W.T. (Pennsylvania State University)

Salvage Archaeology at Kaminaljuyu, Guatemala.

Weltfish, G. (Fairleigh-Dickson University)

Canada.- Mayer-Oakes,W.J. (University of Manitoba)
 Urban Archaeology -- A Brief Overview.
 Swannack,J.D.(National Historic Sites Serv.Ottawa)
 Archaeology in Canadian Urban Areas.

Symposium No. 4 Coprolite Analysis in North America.

Day: Thursday, April 30 Hour: 9:30 - 1:00

Room: Caso

Chairman: E.O. Callen (McGill University)

Organizer: Lewis K. Napton (University of California, Berkeley)

Callen, E.O. (McGill University)

Reconstruction of Cave Diets from two Pre-Columbian Sites in Mexico.

Trevor-Deutsch, B. (McGill University)

Hair Identification in Pre-Columbian Mexican Coprolites.

Napton, L.K. (University of California, Berkeley)

Lovelock Cave, Nevada: Coprolites and Chronology in the Western Great Basin.

Fry, G.F. (University of Utah)

Analysis of Human Coprolites from Utah, U.S.A.

Bryant, V.M. Jr. (Washington State University)

Pollen Analysis of Prehistoric Human Coprolites from Texas.

Watson, P.J. (Washington University) and
 Yarnell, R.A. (Emory University)

Human Paleofeces from Salts Cave, Kentucky.

Session No. 1

Theory - General I

Day: Thursday, April 30

Hour: 9:30 - 1:00

Room: Alba-Barlow

9:30 - 10:00

Duncan, R.L. and Zan, Y. (University of California, Los Angeles)

The Recent History of Archaeology : New Categories or New Explanations ?

10:00 - 10:30

Paddock, J. (Inst. de Estudios Oaxaqueños)
 Commitment in Archaeology ?

10:30 - 11:00

Zaborski, J. (Sokrateion Corporation)

Topological Archaeology -- A New Branch of the Science of Theoretical Archaeology.

11:00 - 11:30

Fritz, J.M. (University of California, Santa Cruz)

Archaeological Systems for Indirect Observation.

11:30 - 12:00

Redman, C.L. (University of Chicago)

General Systems Approach for Archaeology: The Emergence of Urban Complexes.

12:00 - 12:30

Thomas, G.B. (University of Arizona)

Towards a Test of Modern Archaeological Method and Theory Constructs.

12:30 - 1:00

Watson, R.A. (Washington University)

Inference in Archaeology.

Session No. 9 Biological Problems in Archaeology.
Day: Thursday, April 30 Hour: 9:30 - 1:00
Room: Clavijero

9:30 - 10:00 Carter, G.F. (Texas A. and M. University)
Were there Chickens in Northwest Mexico
in Pre-Columbian Times ?

10:00 - 10:30 Wing, E.S. (University of Florida)
Prehistoric Dogs from the Marismas Nacio-
nales of Sinaloa and Nayarit, Mexico.

10:30 - 11:00 Olsen, S.J. (Florida State University)
Faunal Comparisons of Some Maya Sites.

11:00 - 11:30 Lippold, L.K. (San Diego State College)
Animal Exploitation Patterns in Wood-
land Wisconsin.

11:30 - 12:00 Agenbroad, L.D. (Chadron State College)
The 'Y' Buffalo Jump, Owyhee County, Idaho.

12:00 - 12:30 Frison, G.C. (University of Wyoming)
Late Middle Period Buffalo Pounding on
the Northwestern Plains.

12:30 - 1:00 Peske, G.R. and Peters, G.R. (University
of Wisconsin)
Microscopic Analysis and Age Determination
of Archaeological Human Bone.

Session No. 20 South America, -Peru I
Day: Thursday, April 30 Hour: 9:30 - 1:00
Room: Sahagún.

9:30 - 10:00 Mackey, C.J. (San Fernando Valley State
College)
Preliminary Field Studies at Chan Chan
Peru.

10:00 - 10:30 Hoyt, M.A. (University of California, Berkeley)
and Moseley, M.E. (Harvard University)
The Burr Frieze: A Rediscovery at Chan Chan.

10:30 - 11:00 Dwyer, E. (University of California, Berkeley)
Recent Archaeological Investigations in the
Valley of Cuzco, Peru.

11:00 - 11:30 Rowe, J.H. (University of California, Berkeley)
Ancient Inca Urban Settlements.

11:30 - 12:00 Morris, C. (Brandeis University)
Inca Craft Production.

12:00 - 12:30 Conklin, W.J.
A Sacred Andean Textile Fragment from the
beginnings of the Middle Horizon.

12:30 - 1:00 Dwyer, J.P. (University of California, Berkeley)
Recent Studies of Paracas Textiles.

Session No. 24

U.S.A. - Southwest I

Day: Thursday, April 30

Hour: 9:30 - 1:00

Room: Auditorium

- 9:30 - 10:00 Judge, W.J. (Colorado State University)
Paleoindian Settlement Technology ----
Central New Mexico.
- 10:00 - 10:30 Irwin-Williams, C. (Eastern New Mexico
University)
Shifting Patterns of Land Use in North-
western New Mexico : 8500 B.C. - 800 A.D.
- 10:30 - 11:00 Wheat, J.B. (University of Colorado)
The Stevenson Site: Architectural Change
in Basket Maker III time.
- 11:00 - 11:30 Rohn, A.H. (University of Illinois)
Extending Pueblo Social History.
- 11:30 - 12:00 Leap, W.L. (Southern Methodist University)
The "Puebloan" reality of "Pueblo" ---
A Problem in Ethnographic Analogy.
- 12:00 - 12:30 Reyman, J.E. (Southern Illinois University)
Southwestern Pueblo Conservatism: A New
Look at an Old "Myth".
- 12:30 - 1:00 Ellis, F.H. (University of New Mexico)
Calendar Priests in Jemez Pueblo; another
item borrowed from Mexico.

Session No. 19.-

GUATEMALA.

Day: Thursday, April 30

Hour: 3:00 - 6:00

Room: Sección Educativa.

- 3:00 - 3:30 Puleston, D.E. (University of Minnesota)
Recent Investigations in the Southeast
Petén.
- 3:30 - 4:00 Bullard, W. R. Jr. (University of Florida)
The Status of Postclassic Archaeology in
Petén, Guatemala.
- 4:00 - 4:30 Harrison, P.D. (Trent University).
Separating Functions in a Maya Palace
Group.
- 4:30 - 5:00 Evans, D.T. (San Francisco State College)
The Ceramics of Chalchitan, Guatemala,
With Temporal and Spatial Reference.
- 5:00 - 5:30 Feldman, L.H.
A Pokom State: Protohistoric Sites in
the North of the Valley of Guatemala.
- 5:30 - 6:00 Heath-Jones.
Identification of an Ancestral Maya -
Calendar in the Southern Maya Area in
Miraflores Phase on Monument 10, Kamí
naljuyu.

Session No. 21 South America.- Peru II
 Day: Thursday, April 30 Hour: 3:00 - 5:00
 Room: Sahagun.

3:00 - 3:30 Browman, D.L. (Harvard University).
 The Chavinoid Reformation as seen from
 the Mantaro.

3:30 - 4:00 Grossman, J.W. (University of California,
 Berkeley).
 New Ceramic Styles from the Province of
 Andahuaylas, Apurimac, Peru.

4:00 - 4:30 Holtzman, B. (University of Kansas.)
 A New Stone Sculpture Style from the
 Northern Peruvian Sierra.

4:30 - 5:00 Patterson, T.C. (Yale University).
 Environmental Change on the West Side
 of the Peruvian Andes.

Session No. 21a.- Asia.- Pacific.
 Day: Thursday, April 30. Hour 5:00 to 6:00
 Room: Sahagun.

5:00 - 5:30 Solheim, W.G. III (University of Hawaii)
 Northern Thailand, Southeast Asia, and
 World Prehistory.

5:30 - 6:00 Shutler, M.E. (San Diego State College).
 Rock Art of The South Pacific.

Session No. 33 North America.- Arctic.
 Day: Thursday, April 30 Hour: 3:00 - 6:00
 Room: Caso.

3:00 - 3:30 Nowak, M. (Colorado College).
 A Preliminary Sequence of Nunivak Island,
 Alaska.

3:30 - 4:00 Hall, E.S. Jr. (Ohio State University).
 The Eskimo of Interior Northern Alaska:
 An Ethnoarchaeological Approach.

4:00 - 4:30 Bishop, C.A. and Smith, M.E. (Eastern
 New Mexico University).
 Early Historic Populations in Northwestern
 Ontario: Archaeological and Ethnohistorical
 Interpretations.

4:30 - 5:00 Townsend, J.B. (University of Manitoba).
 The Pedro Bay Site, Iliamna Lake, Alaska.

5:00 - 5:30 Smith, J.W. (University of Calgary).
 Preliminary Report on Archaeological In-
 vestigation at Ice Mountain, near Telegraph
 Creek, Northern British Columbia.

5:30 - 6:00 Hester, J.J. and Conover, K.J. (University
 of Colorado).
 Ecological Sampling of Middens on the
 Northwest Coast.

6:15 - Business Meeting Room: Auditorium
 Afterwards Cocktail.

Special Session.- Excavaciones en Tlapacoya,
Estado de México, México.
Day: Friday, May 1 Hour: 9:30 a.m. - 1:00 p.m.
Room: X

Chairman: Jose Luis Lorenzo (I.N.A.H.).
Mooser, F. (U.N.A.M.).
Geología Regional.
Limbrey, S.P. and Flores, A. (I.N.A.H.).
Soils, Sediments, and Tephra.
Bradbury, J.P. (Washington State College).
Diatoms.
Flores, A. (I.N.A.H.).
Malacofauna y Ostrácodos.
González, L. (I.N.A.H.).
Paleobotánica.
Halsster, R. (I.P.N.).
Insectos.
Alvarez, T. (I.N.A.H.).
Paleozoología.
Mirambell, L. (I.N.A.H.).
Restos Culturales I.
Niederberger, C.B. (I.N.A.H.).
Restos Culturales II.
Lorenzo, J.L. (I.N.A.H.).
Cronología y la Posición de Tlapacoya en
La Prehistoria Americana.

NOTE: After this session, there will be a field trip to Tlapacoya. Inscription limited to 30 persons (on first come-first serve basis). A bus will be at the Museum for transportation to the site. Lunch will be served at Tlapacoya. Return: 6:00 p.m. at the Museum.

Symposium No. 5.- The Ceramic Industries of Modern Panoan
Speakers and their Implications Concerning
Past Population Movements and Cultural
Development in the Ucayali Basin of Peru.

Day: Friday, May 1 Hour: 9:30 a.m. - 1:00 p.m.
Room: Caso.

Organizer: Donald W. Lathrap (University of Illinois).
Deboer, W.R. (University of California, Berkeley).
A Ceramic Style from the Upper Ucayali River,
Eastern Peru.
Kensing, K.M. (Temple University).
Ceramic Industry of the Cashinahua: Categories
and Variations.
Lathrap, D.W. (University of Illinois).
A Formal Analysis of Shipibo Conibo Pottery
and its Implications for Studies of Panoan
Prehistory.
Myers, T.P. (Indiana University).
Prehistory and the Pottery of the Interfluvial
Panoans.
Roe, P.G. (University of Illinois).
Cumancaya, Archaeological Excavations on an
Oxbow Lake in the Peruvian Montaña.
Siskind, J. (Rutgers University).
The Culina Eat Snakes and Never Bathe:
Cultural Competition for an Ecological Niche.

Session No, 5.- Method.- Statistics/Computers.
 Day: Friday, May 1 Hour: 9:30 a.m. - 1:00 p.m.
 Room: Alba-Barlow.

9:30 - 10:00 Chenhall, R.G. (Arkansas Archaeological Survey).
 The Arkansas Information Retrieval System.

10:00-10:30 Walter, N.P. (San Fernando Valley State College).
 A Computer Asisted Experiment in Typology.

10:30-11:00 Litvak K.,J. (U.N.A.M.).
 Some Theoretical Inferences from Settlement Pattern Observations in the Xochicalco Region.

11:00-11:30 Cowgill, G.L. (Brandeis University).
 Some Results of Computer Work at Teotihuacan, Mexico.

11:30-12:00 Grebinger, P. and Adam, D.P. (University of Arizona).
 Cluster and Principal Component Analyses of Upper Pima Burials from the Paloparado Site.

12:00-12:30 Thomas, D.H. (University of California, Davis).
 Probability Sampling of Archaeological Regions. A Preliminary Report on the Reese River Ecological Project.

12:30-13:00 Clay, R.B. (Tulane University.)
 Flint Tool Frequencies: Tradition or Activity ?.

Session No. 8. Ecology and Subsistence
 Day: Friday, May 1 Hour: 9:30 a.m. - 1:00 p.m.
 Room: Clavijero.

9:30 - 10:00 Evans, R.K.; Leonard N.N. III; Stickel, E.G. and Chartkoff, J.L. (University of California, Los Angeles).
 Application of the Ecological Concept of Succession to an Archaeological Problem.

10:00-10:30 Mochon, M.J. (University of Wisconsin).
 Carneiro's Hypothesis and the Southeast.

10:30-11:00 Chartkoff, J.L. (University of California, Los Angeles).
 Explanations for the origin of food production in the Old and New Worlds: conceptual problems, explanatory hypotheses and test results.

11:00-11:30 Edwards, W.E. (Temple Buell College).
 The Origin of Food-Producing.

11:30-12:00 Compton, C.B. (Instituto Interamericano, Denton).
 Ustilago Zeae and some other Comestibles.

12:00-12:30 Mchugh, W.P. (University of Wisconsin).
 Late Prehistoric Human Adaptation in the Lybian Desert.

12:30- 1:00 Byron, W.G. (California State College, Los Angeles).
 Pre-Conquest Settlement Patterns in the Estuary-Mountain Transitional Zones of Nayarit, Mexico.

Session No. 22. South America.- Early Man.- Outside Contacts.

Day: Friday, May 1. Hour: 9:30 a.m. - 1:00 p.m.

Room: Sahagun.

- 9:30 - 10:00 Sarma, A.V.N. (Columbia University, N.Y.)
Late Pleistocene and Holocene Ecology of
Santa Elena Peninsula in Southwest Ecuador.
- 10:00-10:30 Dorwin, J.T. (University of Kentucky).
Early Man in Colombia, South America, El
Abra III.
- 10:30-11:00 Hurt, W.R. (Indiana University).
The Preceramic Occupations in the El Abra.
Rock Shelters, Sabana de Bogota, Colombia.
- 11:00-11:30 Mayer-Oakes, W.J. (University of Manitoba).
San Jose - Another Early Site in Highland
Ecuador.
- 11:30-12:00 Lange, F. (Associated Colleges of the Midwest).
Culture History in the Rio Sapoa Valley,
Costa Rica.
- 12:00-12:30 Stark, L.R. (University of Wisconsin)
Migration Theory and Language Distribution
in the Andean Area.
- 12:30- 1:00 Birrel, V. (University of Utah.).
New and Old World Contacts.

Session No. 25

U.S.A.- Southwest II

Day: Friday, May 1

Hour: 9:30 - 1:00

Room: Auditorium

- 9:30 - 10:00 Euler,R.C. (Prescott College)
Late Pleistocene Archaeology and Paleo-
climatology in Grand Canyon,Arizona.
- 10:00 - 10:30 Tuggle,D. (University of Arizona)
Prehistoric Settlement Pattern below
the Mogollon Rim, Arizona.
- 10:30 - 11:00 Longacre,W.A. (University of Arizona)
Analysis of Burials from the Grasshopper
Ruins, Arizona.
- 11:00 - 11:30 Weed,C.S. and Ward,A.E.(Prescott College)
Colonial Hohokam in North Central Arizona.
- 11:30 - 12:00 Kelly,R.E. (University of Arizona)
Diminishing Returns: 12th Century Sinagua
Readaptation in North Central Arizona.
- 12:00 - 12:30 Zubrow,E.B.W. (University of Arizona)
Settlement Patterns and the Marginality
Hypothesis.
- 12:30 - 1:00 Plog,F.(University of California,Los Angeles)
Water Control Systems in Southwestern
Prehistory: The Upper Little Colorado.

Session No. 29 U.S.A., - Midwest II
 Day: Friday, May 1 Hour: 9:30 - 1:00
 Room: Sección Educativa

9:30 - 10:00 Struever, S. (Northwestern University)
 Chert Utilization in Lower Illinois Valley
 Prehistory.

10:00 - 10:30 Rackerby, F. (Southern Illinois University)
 Exchange Systems and the Hopewell Inter-
 action Sphere.

10:30 - 11:00 Salzer, R.J. (Logan Museum)
 The Waukesha Focus of Wisconsin Hopewell.

11:00 - 11:30 Hurley, W.M. (University of Toronto)
 The Effigy Mound Tradition of Wisconsin.

11:30 - 12:00 Griffin, J.B. and Price, J.E. (University
 of Michigan)
 The Powers Phase: A Mississippian Society
 in Southeast Missouri.

12:00 - 12:30 Morse, D.F. (State University, Arkansas)
 An Early Penetration of Mississippi
 Culture in Arkansas.

12:30 - 1:00 O'Brien, P.J. (Kansas State University)
 Western Middle Mississippian and its
 Relation to Cahokia and Central Plains
 Cultures.

Session No. 3 Method.-Dating
 Day: Friday, May 1 Hour: 3:00 - 5:00
 Room: Alba-Barlow

3:00 - 3:30 Bucha, V. (Czechoslovak Academy of Science)
 and Taylor, R.E. (University of California,
 Riverside)

 Archaeomagnetic Intensity Measurements on
 Mesoamerican Ceramics and Other Fired
 Materials.

3:30 - 4:00 DuBois, R.L. (University of Oklahoma) and
 Wolfman, D. (University of Colorado)

 Archaeomagnetic Dating in the New World.

4:00 - 4:30 Ferguson, C.W. (University of Arizona)

 The 7485-Year Tree-Ring Chronology of
 Bristlecone Pine as a Basis for Calibrating
 the Radiocarbon Time Scale.

4:30 - 5:00 Graybill, D.A. and Ferguson, C.W. (University
 of Arizona.)

 New Archaeological Applications of Dendro-
 chronology: Crooked Creek Cave, California.

Session No. 7

Method.- Site Localization

Day: Friday, May 1

Hour: 3:00 - 5:30

Room: Sección Educativa

- 3:00 - 3:30 Hammond, P.C. (University of Utah)
Geomagnetic Survey and Excavation :
Sevilla la Nueva, St. Ann's Bay,
Jamaica, W.I.-- 1969.
- 3:30 - 4:00 McPherron, A. (University of Pittsburgh)
Magnetometer Mapping of Neolithic Fired-
Earth House Floors in Yugoslavia.
- 4:00 - 4:30 Beverido P., F. (Universidad Veracruzana)
La Magnetometría en Auxilio de la Inves-
tigación Arqueológica.
- 4:30 - 5:00 Gumerman, G.J. (Prescott College)
An Infrared Photographic Survey of the
Tehuacan Valley, Mexico: The Test of a
Method.
- 5:00 - 5:30 Onat, A.R. (Seattle Community College)
The Dig. -- Color Film.

Session No. 11

Mexico.- Formative II

Day: Friday, May 1

Hour: 3:00 - 6:00

Room: Auditorium

- 3:00 - 3:30 Brush, C.F. (American Museum of Natural History)
Recent Investigations along the Guerrero
Coast : I .
- 3:30 - 4:00 Brush, E.S. (American Museum of Natural History)
Recent Investigations along the Guerrero
Coast : II .
- 4:00 - 4:30 Greengo, R.E. (University of Washington)
The Preclassic in Guerrero, Mexico.
- 4:30 - 5:00 Grove, D.C. (State University of New York)
The Morelos Formative: Cultural Stratigraphy
and Implications.
- 5:00 - 5:30 Tolstoy, P. (Queens College)
Sequencing and Dating the Burials at Tlatilco.
- 5:30 - 6:00 Weaver, M.P. (Hunter College)
Present Status of Chupicuaro.

Session No. 31 North America.- Early Man I

Day: Friday, May 1 Hour: 3:00 - 5:30

Room : Clavijero

3:00 - 3:30 DeGarmo,G.D.(University of California,Los Angeles)
 Big Game Hunters: An Alternative and an Hypothesis.

3:30 - 4:00 Galdikas,B.(University of California, Los Angeles)
 The Shift from Mammoth to Bison in Paleo-Indian Subsistence.

4:00 - 4:30 Knudson,R. (Washington State University)
 Hypsithermal Cultures on the High Plains: A Suggested Model.

4:30 - 5:00 Agogino,G. and Weber,R.(Eastern New Mexico University)
 The Mockingbird Gap Clovis Site: Four Years of Excavation.

5:00 - 5:30 Haynes,C.V. and Hemmings,E.T. (Southern Methodist University)
 Preliminary Report on the 1969 Murray Springs Project.

Session No. 12 Mexico.- Altiplano I

Day: Saturday, May 2 Hour: 9:30 - 1:00

Room: Auditorium.

9:30 - 10:00 Drewitt,B. (University of Toronto)
 Archaeological Survey Methods of the Teotihuacan Mapping Project.

10:00 - 10:30 Millon,R. (University of Rochester)
 Occupational Specialization in Teotihuacan.

10:30 - 11:00 Charlton,T.H. (University of Iowa)
 The Upper Teotihuacan Valley: 1500-1969.

11:00 - 11:30 Kolb,C.C. (Bryn Mawr College)
 Classic Teotihuacan Figurines in the Teotihuacan Valley, Mexico.

11:30 - 12:00 Matos M.,E. (I.N.A.H.)
 Resultados Preliminares de las Excavaciones en el Juego de Pelota No. 2 de Tula, Hidalgo.

12:00 - 12:30 Blanton,R.E. (University of Michigan)
 Preliminary Analysis of Community Pattern at Ixtapaluca Viejo, Valley of Mexico.

12:30 - 1:00 Corona,S.,E. (I.N.A.H.)
 La Región Matlatzinca: Su Panorama Arqueológico.

Session No. 23

South America and Caribbean

Day: Saturday, May 2

Hour: 9:30 - 1:00

Room: Sahagún

- 9:30 - 10:00 Sutherland, D.R. (University of South Carolina)
Initial Investigations into the Prehistory of Santander, Colombia.
- 10:00 - 10:30 Broadbent, S.M. (University of California, Riverside)
The Present Status of Chibcha Archaeology.
- 10:30 - 11:00 Thompson, D.E. (University of Wisconsin)
Late Prehistoric Villages in the Eastern Andes.
- 11:00 - 11:30 Bruhns, K.O. (University of Calgary)
Resist Painted Pottery in the Western Andes.
- 11:30 - 12:00 Douglas, J.G. (University of Illinois)
A Formal Interpretation of Tairona Ceramics Chronology.
- 12:00 - 12:30 Bullen, R.P. (Florida State Museum)
Radio Carbon Dates, The Suazey Complex and Carib Archaeology in the Lesser Antilles.
- 12:30 - 1:00 Hoffman, C.A. Jr. (University of Florida)
Multilinear Evolution in Prehistoric West Indies.

Session No. 26

U.S.A., -Great Basin

Day: Saturday, May 2

Hour: 9:30 - 1:00

Room: Sección Educativa.

- 9:30 - 10:00 O'Connell, J.F. (University of California, Berkeley)
Archaeological Sequence and Settlement Pattern in Surprise Valley, Northeast California.
- 10:00 - 10:30 Ambro, R.D. (University of California, Berkeley)
The Surface Archaeology of Ridge Village North.
- 10:30 - 11:00 Hallinan, P.S. (University of California, Berkeley)
Site of Churchill-15, Churchill Co. Nevada.
- 11:00 - 11:30 Clewlow, C.W. Jr. (University of California, Berkeley)
Preliminary Investigations in Grass Valley, Lander County, Nevada.
- 11:30 - 12:00 Wallof, K. (University of California, Santa Cruz)
Shoshone House Types in Grass Valley, Nevada.
- 12:00 - 12:30 Adovasio, J. (University of Utah)
The Origin and Development of Western Archaic Textiles.
- 12:30 - 1:00 Davis, L.D.
A Study of the Distribution and Stylistic Variations of Figurines within the Fremont Culture Area.

Session No. 32

North America.- Early Man II

Day: Saturday, May 2

Hour: 9:30 - 1:00

Room: Clavijero

- 9:30 - 10:00 Johnson, D.L. (Southern Illinois University)
The Bering Bridge: Not a Prerequisite for Late Pleistocene Peopling of the New World.
- 10:00 - 10:30 Bettarel, R. (Syracuse University)
Ecology, Early Man and the Bering Straits.
- 10:30 - 11:00 Ackerman, R.E. (Washington State University)
The Choris-Norton Interphase: Some Technological Considerations.
- 11:00 - 11:30 Irving, W.N. (University of Toronto) and Harington, C.R. (University of Alberta)
Pleistocene Radiocarbon Dated Artifacts from Northern Yukon Territory.
- 11:30 - 12:00 Reeves, B. (University of Calgary)
The Coalescence of the Laurentide and Cordilleran Ice Sheets in Western Canada, with particular reference to the Alberta Area.
- 12:00 - 12:30 Millar, J.P.V. (University of Saskatchewan)
Late Pleistocene Archaeology of the Laurentide-Cordilleran Migration Corridor.
- 12:30 - 1:00 Borden, C.E. (University of British Columbia)
The Milliken Phase of Southwestern British Columbia.

Session No. 4

Method.- Lithic Studies

Day : Saturday, May 2

Hour: 3:00 - 6:00

Room: Alba-Barlow

- 3:00 - 3:30 Davis, L.B. (Montana State University)
New Obsidian Hydration Rating Controls for the Temperate Region.
- 3:30 - 4:00 Purdy, B.A. (University of Florida)
Thermal Experiments with Silica Minerals.
- 4:00 - 4:30 Thomsen, E.G. and Thomsen, H.H. (University of California, Berkeley)
Engineering Analysis in Archaeology.
- 4:30 - 5:00 Castillo T., N. (I.N.A.H.)
Tecnología de Vasijas en Piedra.
- 5:00 - 5:30 Vega, C. (I.N.A.H.)
Contribución al Conocimiento de las Hachas de Hoja Simple de Piedra Pulida en el México Prehispánico.
- 5:30 - 6:00 Lischka, L.E. (University of Arizona)
Investigations of the Chipped Stone Assemblage from Chalchuapa, El Salvador.

Session No. 13.

Mexico.- Altiplano II

Day: Saturday, May 2

Hour: 3:00 - 6:30

Room: Auditorium

- 3:00 - 3:30 Steen-McIntyre, V. and Malde, H.E. (U.S. Geological Survey)
Status of Volcanic-Ash Chronology at Valsequillo Archaeological Sites, Puebla, Mexico.
- 3:30 - 4:00 Fowler, M.L. (University of Wisconsin)
Amalucan a Preclassic Site in Puebla, Mexico.
- 4:00 - 4:30 Mountjoy, J.B. (University of North Carolina)
Man and Land at Sta. Catarina, Cholula, Puebla.
- 4:30 - 5:00 Peterson, D. (University of the Americas)
A Cholulteca Trash Pit.
- 5:00 - 5:30 Muller, F. (I.N.A.H.)
Efectos de la Conquista Española sobre la Cerámica Prehispánica de Cholula.
- 5:30 - 6:00 Mastache, A.G. (I.N.A.H.)
Tejidos Arqueológicos de una Cueva Seca de la Región de Caltepec, Puebla.
- 6:00 - 6:30 Johnson, I.W. (I.N.A.H.)
A Painted Cloth from Tenancingo, Mexico.

Session No. 16

Mexico.- North

Day: Saturday, May 2

Hour: 3:00 - 5:00

Room: Sección Educativa.

- 3:00 - 3:30 Crespo, A.M. (I.N.A.H.)
Artefactos Líticos de un Sitio Rural en la Frontera Norte de Mesoamérica.
- 3:30 - 4:00 Nance, C.R. (University of Alabama)
Early Components from La Calzada, a Rock Shelter in the Sierra Madre Oriental, Nuevo Leon.
- 4:00 - 4:30 Kowta, M. (Chico State College)
Perspectives on Southern Baja California Prehistory: Observations from a Reconnaissance in the La Paz Area.
- 4:30 - 5:00 Wasley, W.W. (University of Arizona)
Past and Present of a Pioneer Padre.

Session No. 18

Mexico.- Maya II

Day: Saturday, May 2

Hour: 3:00 - 6:00

Room: Sahagún

- 3:00 - 3:30 Culbert, T.P. (University of Arizona)
Sociocultural Integration and the Classic Maya.
- 3:30 - 4:00 Fry, R.E. (Purdue University)
Mesoamerican Trading Systems and the Maya Collapse.
- 4:00 - 4:30 Rathje, W.L. (Harvard University)
The Daily Grind.
- 4:30 - 5:00 Hellmuth, N.M. (Brown University)
"Tlalocs", "Angular-Yearsigns", and other Mexican Motifs in the Late Classic Monumental Sculpture of Piedras Negras, Yaxchilan and Bonampak.
- 5:00 - 5:30 Rauh, J. (American Museum of Natural History)
The Temporal Array of Mayan Directional Glyphs in the Codices.
- 5:30 - 6:00 Ferree, L. (Southern Illinois University)
Mexican Influence on Certain Elements of Classic Maya Religion.

Session No. 27

U.S.A.- California and Plateau

Day: Saturday, May 2

Hour: 3:00 - 6:00

Room: Clavijero

- 3:00 - 3:30 Davis, E.L. (San Diego Museum of Man)
Extinct Fauna and Early Man in the Mohave Desert, California.
- 3:30 - 4:00 Evans, R.V.C. (San Diego Museum of Man)
The Relationship of Diegueño Pottery to its Culture.
- 4:00 - 4:30 Dixon, K.A. (California State College, Long Beach)
Obsidian Hydration Measurements, Radio-carbon Dates, and a possible Early Ceremonial Cache and Burial Complex at a Stratified Site in Southern California.
- 4:30 - 5:00 Gerow, B.A. (Stanford University)
Convergent Trends in Prehistoric California.
- 5:00 - 5:30 Toups, P.A. (Western Kentucky University)
Lenore Village: A Stratified Site on the Clearwater River in Northern Idaho.
- 5:30 - 6:00 Leonhardy, F.C. (Washington State University) and Rice, D.G. (University of Idaho)
A Proposed Culture Typology for the Lower Snake River Region, Southeastern Washington.

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