

SOCIETY FOR AMERICAN ARCHAEOLOGY

THIRTY-FIRST ANNUAL MEETING

held with
The
GREAT BASIN ANTHROPOLOGICAL
CONFERENCE



UNIVERSITY OF NEVADA

MAY 5 - 7, 1966

sponsored by
The Desert Research
Institute
University of Nevada

REGISTRATION

An early registration desk will be open Wednesday Evening until 9 P. M. at the Mapes Hotel. Registration during the Conference will be in the lobby of the Jot Travis Union.

MESSAGE CENTER

Messages will be received from 8 A. M. to 5 P. M. at the following telephone number: Area code 702, 323-2081, extensions 475 or 482. Messages can be picked up at the Message Center in the Jot Travis Union lobby. Registrants are urged to leave the above number with their families.

SPECIAL EXHIBITIONS

The Nevada State Museum mobile exhibit will be open from 9 A. M. to 5 P. M. in front of the Jot Travis Union Building. Registrants are also invited to visit the Nevada State Museum in Carson City.

The Fleishmann Atmospherium - Planetarium on the upper part of the campus will have special shows available for conference visitors. Free tickets and show - times are available at the Registration desk.

Conference visitors are also invited to visit the Desert Research Institute facilities in the Water Resources Building adjacent to the Atmospherium.

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CONFERENCE SCHEDULE

WEDNESDAY, MAY 4

5:00 - 9:00 P. M. Early Registration, Mapes Hotel

THURSDAY MORNING, MAY 5

8:00	Registration	Jot Travis Union
8:00 - 11:00	Coffee	Jot Travis Lobby
8:45	Welcome	Jot Travis Lounge

CHARLES J. ARMSTRONG, President
University of Nevada

WENDELL MORDY, Director
Desert Research Institute

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1. ARCHAEOLOGICAL METHODS, I

Chairman: ALAN MCPHERRON (Univ. of Pittsburgh)

- 9:00 ROBERT G. CHENHALL (Arizona State Univ.)
The Description of Archaeological Data in Computer Language.
- 9:25 ALAN MCPHERRON (Univ. of Pittsburgh)
Recent Computer Experiments in the Study of Stylistic Variation in Ceramics.
- 9:40 DAVID L. WEIDE (Univ. of California, Los Angeles)
Soil pH as a Guide to Archaeological Investigation.
- 10:05 Coffee Break
- 10:30 E. MOTT DAVIS (Univ. of Texas)
A Problem in Radiocarbon Dating.
- 10:55 ALLAN H. SMITH (Washington State Univ.)
Ethnography as a Guide to Archaeological Research in a Marginal Area: Mount Ranier, Washington
- 11:20 EDWARD MCM. LARRABEE (Churchville, Pa.)
Historic Site Archaeology in Relation to Other Archseology.

2. HIGHLAND SOUTH AMERICA

Chairman: THOMAS C. PATTERSON (Harvard Univ.)

- 9:00 JOAN B. TOWNSEND (Univ. of Manitoba)
Archaeological Survey in Ecuador.
- 9:25 DONALD A. PROULX (Univ. of Massachusetts)
Cultural Relationships between the Ica and Nasca Valley Peru, during the Early Intermediate Period.
- 9:40 THOMAS C. PATTERSON (Harvard Univ.)
The Oracle and the Inca: The Role of Pachacamac in Andean Culture History.
- 10:05 Coffee Break
- 10:30 DONALD E. THOMPSON (Univ. of Wisconsin)
The Inca Occupation of the North Central Highlands and the North Central Coast of Peru.
- 10:55 JOHN HOWLAND ROWE (Univ. of California, Berkeley)
Religion and Empire in Ancient Peru.

3. SOUTHWEST, I

Chairman: FLOYD W. SHARROCK (Univ. of Utah)

- 9:00 BERTHA P. DUTTON (Museum of Navajo Ceremonial Art)
Results of Computer Analyses of Las Madres Ceramics.
- 9:25 CURTIS SCHAAFSMA (Museum of New Mexico), DANIEL WOLFMAN and MARIANNE WOLFMAN (Adams State College)
Practical Aspects and Methodological Problems in Computer Analysis of Archaeological Materials.
- 9:40 J. RICHARD AMBLER (Univ. of Texas)
Caldwell Village and the Fremont Culture.
- 10:05 Coffee Break
- 10:30 C. MELVIN AIKENS (Univ. of Utah)
Plains Relationships of the Fremont and Promontory Cultures.
- 10:55 DAVID S. DIBBLE (Univ. of Texas)
Excavations at Arenosa Shelter
- 11:20 ROGER NANCE (Univ. of Texas)
La Calsada, a Stratified Site in the Sierra Madre Oriental, Nuevo Leon, Mexico.

4. NORTHERN NORTH AMERICA

Chairman: RUTH W. GIDDINGS (Brown Univ.)

- 9:00 JAMES V. CHISM (Univ. of Manitoba)
1965 Archaeological Work at Lower Fort Garry.
- 9:25 HARVEY S. RICE (Univ. of Oregon)
Archaeology of Shelikof Strait, Southwest Alaska, I.
- 9:40 GERALD H. CLARK (Univ. of Oregon)
Archaeology of Shelikof Strait, Southwest Alaska, II.
- 10:05 Coffee Break
- 10:30 ROBERT E. ACKERMAN (Washington State Univ.)
A New Dimension in North Pacific Coast Prehistory.
- 10:55 DOUGLAS D. ANDERSON (Brown Univ.)
Preliminary Report on the Onion Portage Site, Alaska.
- 11:20 G. F. GRABERT (Univ. of Washington)
The Okanogan Valley: Boundary or Transition Zone?

THURSDAY AFTERNOON, MAY 5

1. EARLY MAN

Chairman: H. MARIE WORMINGTON (Denver Museum of
Natural History)

- 1:45 A.L. BRYAN (Univ. of Alberta, Edmonton) and L.A.
BAYROCK (Alberta Research Council, Edmonton)
Late Pleistocene of Alberta in Relation to the Problem
of Early Man in America.
- 2:10 DON W. DRAGOO (Carnegie Museum)
An Early Lithic Site in Stewart County, Tennessee.
- 2:35 GEORGE AGOGINO and IRWIN ROVNER (Eastern New Mexico Univ.)
A Conclusion Concerning the Typological Difference
between Midland and Folsom Points at the Blackwater
Draw Site -- Eastern New Mexico.
- 3:00 Coffee Break
- 3:25 C. VANCE HAYNES, JR. (Univ. of Arizona)
Early Man and the Alluvial Chronology.
- 3:50 PETER J. MEHRINGER, JR. (Univ. of Arizona)
Pollen Analysis and the Alluvial Chronology.
- 4:15 CYNTHIA IRWIN - WILLIAMS (Eastern New Mexico Univ.)
Human Ecology and Cultural Dynamics in Pre-ceramic
Developments of the Southwestern United States.

2. SOUTHERN PLAINS - PRAIRIES

Chairman: CARL H. CHAPMAN (Univ. of Missouri)

- 1:45 J. NED WOODALL (Southern Methodist Univ.)
Preliminary Excavations at Spanish Fort, Texas, a
Prehistoric and Historic Habitation Area.
- 2:10 TYLER BASTIAN (Museum of the Great Plains)
An Eighteenth Century Wichita Village in South-
Central Oklahoma.
- 2:35 CARL H. CHAPMAN (Univ. of Missouri)
Archaeological Evidences of Osage Indian Houses from
Three Historic Sites in Southwestern Missouri.
- 3:00 Coffee Break
- 3:25 J. A. BROWN (Univ. of Oklahoma)
New Advances in Research on the Spiro Site.
- 3:50 MICHAEL P. HOFFMAN (Univ. of Arkansas)
Ceramic Pipe Style Chronology along the Red River
Drainage in Southwestern Arkansas.
- 4:15 R. BRUCE MCMILLAN (Univ. of Missouri)
Some Comments on the Rodgers Shelter: a Stratified
Archaeological Chronicle on the Ozark Highlands-
Plains Border.

3. MAYA ARCHAEOLOGY

Chairman: DAVID H. KELLEY (Univ. of Nebraska)

- 2:10 T. PATRICK CULBERT (Univ. of Arizona)
Vessel Shapes in Maya Ceramics.
- 2:35 DAVID H. KELLEY (Univ. of Nebraska)
New Data on the Maya Correlation Problem.
- 3:00 Coffee Break
- 3:25 JOHN A. GRAHAM (Univ. of California, Berkeley)
Non-Classic Inscriptions and Sculptures at Seibal.
- 3:50 ARTHUR A. SAXE (Central Michigan Univ.) and HENRY T.
WRIGHT (Univ. of Chicago)
Terracing in the Maya Mountains of British Honduras:
A Test Excavation at Cubetas Viejas.

4. GREAT BASIN, I

Chairman: MARTIN A. BAUMHOFF (Univ. of California, Davis)

(Joint Session of the Society for American Archaeology
and the Great Basin Anthropological Conference)

- 1:45 L. S. CRESSMAN (Univ. of Oregon)
Pumice Deposits as Horizon Markers in Archaeology.
- 2:10 JAMES F. O'CONNELL (Univ. of California, Berkeley)
Examples of Projectile Points as Time Markers in the
Great Basin.
- 2:35 C. W. CLEWLOW (Univ. of California, Berkeley)
Great Basin Point Types: Spatial and Temporal
Implications.
- 3:00 Coffee Break
- 3:25 ROBERT ELSTON (Univ. of Nevada)
Identification of the Historic-Protohistoric Phase of
the Washo of the Central Sierra Nevada.
- 3:50 FRANK E. RACKERBY (Southern Illinois Univ.)
The Craig Site: a Western Sierra Foothill Martis
Complex Manifestation.
- 4:15 WILLIAM H. OLSEN (California State Division of Beaches
and Parks) and WILLIAM E. PRITCHARD (Sacramento State
College)
The Martis Complex: an Application of the Obsidian
Hydration Method.
- 4:35 BURTON MOYER (Univ. of California, Berkeley)
Prehistoric Sculpture in West Central Nevada.

THURSDAY EVENING, MAY 5

- 6:30 - 8:00 No-Host Cocktail Party, Panorama Room, Mapes Hotel.
- 8:00 Annual Banquet, Sky Room. Mapes Hotel.
- Speaker: RICHARD S. MACNEISH (Univ. of Alberta, Calgary)
- Topic: The Interdisciplinary Approach to Archaeology.

FRIDAY MORNING, MAY 6

9:00 - 12:00

PLENARY SYMPOSIUM ON UTAZTEKAN PREHISTORY

(Joint Session of the Society for American Archaeology
and the Great Basin Anthropological Conference)Organizer and Chairman: EARL H. SWANSON, JR. (Idaho
State Univ.)

1. JEREMIAH EPSTEIN (Univ. of Texas)
An Archaeological View of Uto-Aztekan Time Perspective.
Commentator: ALAN P. OLSON (Univ. of Denver)
 2. FLORENCE HAWLEY ELLIS (Univ. of New Mexico)
Utaztekan Ethnology
Commentator: EDWARD P. DOZIER (Univ. of Arizona)
- Coffee Break
3. JAMES GOSS (Univ. of California, Los Angeles)
Culture-Historical Inference from Utaztekan
Linguistic Evidence.
Commentator: WILLIAM H. JACOBSEN (Univ. of Nevada)
 4. GEORGE J. ARMELAGOS and DAVID A. CARLQUIST (Univ. of Utah)
Physical Anthropology and the Uto-Aztekan Problem.
Commentator: SHEILAGH BROOKS (Univ. of Colorado)

FRIDAY AFTERNOON, MAY 6

1. SYMPOSIUM: SOME NATURAL SCIENCE APPLICATIONS TO
ARCHAEOLOGY
- Organizer and Chairman: ROBERT F. HEIZER (Univ. of
California, Berkeley)
- 1:45 ERIC O. CALLEN (MacDonald College, McGill Univ.)
Methods and Results of Analysis of Human Coprolites.
- 2:10 S. F. COOK (Univ. of California, Berkeley)
Chemical Analysis of Soils of Archaeological Sites.
- 2:35 FRED STROSS (Shell Development Company)
Application of Neutron Activation Analysis to
Archaeology: I
- 3:00 Coffee Break
- 3:25 A. A. GORDUS (Univ. of Michigan)
Application of Neutron Activation Analysis to
Archaeology: II
- 3:50 ROBERT F. HEIZER (Univ. of California, Berkeley)
X-Ray Fluorescence Analysis of Obsidian.

- 4:15 JOSEPH W. MICHELS (Pennsylvania State Univ.)
Testing Stratigraphy and Artifact Re-use through
Obsidian Hydration Dating.
2. PLAINS ARCHAEOLOGY
Chairman: WALDO R. WEDEL (Smithsonian Institution)
- 1:45 CARLYLE S. SMITH (Univ. of Kansas)
Continuity Versus Discontinuity in a Stratified Site.
- 2:10 WALDO R. WEDEL (Smithsonian Institution)
The Council Circles of Central Kansas: Solstice
Registers?
- 2:35 ROBERT L. STEPHENSON (Smithsonian Institution, River
Basin Surveys)
Architecture of the Sully Site.
- 3:00 Coffee Break
- 3:25 ROBERT W. NEUMAN and WALTER E. HILL, JR. (Smithsonian
Institution, River Basin Surveys)
An Analysis of Thirteen Copper Artifacts from
Prehistoric Sites in the Dakotas.
3. SOUTHWEST ARCHAEOLOGY, II
Chairman: ALEXANDER J. LINDSAY, JR. (Museum of
Northern Arizona)
- 1:45 ROBERT H. LISTER (Univ. of Colorado)
A Note Upon Two Types of Kivas Previously Unknown
in Mesa Verde National Park, Colorado.
- 2:10 ROGER E. KELLY (Arizona State College) and S. ALAN
SKINNER (Museum of Northern Arizona)
Ceremonialism and Kivas in Sinagua Prehistory.
- 2:35 MICHAEL B. STANISLAWSKI (Kansas State Univ.)
The Sinagua and the Western Pueblo Cultural Pattern.
- 3:00 Coffee Break
- 3:25 ALFRED E. JOHNSON (Univ. of Kansas)
Turkey Creek Pueblo and the Origins of Western
Pueblo Culture.
- 3:50 KEITH M. ANDERSON (National Park Service)
Tsegi Phase Technology.
- 4:15 JEFFREY S. DEAN (Univ. of Arizona)
The Pueblo Abandonment of Tsegi Canyon, Northeastern
Arizona.

4. MESO-AMERICA-CARIBBEAN
Chairman: KEITH A. DIXON (California State College,
Long Beach)
- 1:45 FREDERICK W. SLEIGHT (Palm Springs Desert Museum)
Archaeological Survey in the Sayula Basin,
Jalisco, Mexico.
- 2:10 KEITH A. DIXON (California State College, Long Beach)
Terminal Late Preclassic Ceremonial Architecture at
Temesco, Valley of Mexico.
- 2:35 RONALD L. VANDERWAL (Institute of Jamaica)
Prehistoric Studies in Jamaica, West Indies.
- 3:00 Coffee Break
- 3:25 CAROLE POTTER (New World Archaeological Foundation)
Pottery from the Site of Izapa in Chiapas, Mexico.
- 3:50 GARETH W. LOWE (New World Archaeological Foundation)
Prehispanic Trade Routes and Culture Patterns
Suggested by Salvage Archaeology in the Mal Paso
Dam Basin, Chiapas, Mexico.
- 4:15 VERLA BIRRELL (Univ. of Utah)
New and Old World Symbols.

SATURDAY MORNING, MAY 7

1. SYMPOSIUM: POTTERY OF THE AMERICAN ARCTIC
Chairman: HENRY B. COLLINS, JR. (Smithsonian Institution)
- 9:00 DON E. DUMOND (Univ. of Oregon)
Pottery Sequence in Southwestern Alaska.
- 9:25 RUTH W. GIDDINGS (Brown Univ.)
Pottery Sequence in Northwest Alaska's Coastal and
Related River Sites.
- 9:40 RICHARD S. MACNEISH (Univ. of Alberta, Calgary)
Pottery Sequence in Northwestern Canada.
- 10:05 Coffee Break
- 10:30 JAMES B. GRIFFIN (Univ. of Michigan)
Asian Sources of American Arctic Pottery.
- 10:55 J.V. WRIGHT (National Museum of Canada)
Northeastern Boreal Forest Ceramics and the
Alaskan Problem.

2. EASTERN NORTH AMERICA

Chairman: GEORGE I. QUIMBY (Univ. of Washington)

- 9:00 WILLIAM A. RITCHIE (New York State Museum)
3600 years of Coastal Adaptation on Martha's
Vineyard, Massachusetts.
- 9:25 JOFFRE L. COE (Univ. of North Carolina)
The Cherokee Townhouse at Garden Creek.
- 9:40 CHARLES E. CLELAND (Michigan State Univ.)
Focal and Diffuse Subsistence Patterns of the
Prehistoric Culture of the Upper Great Lakes Area.
- 10:05 Coffee Break
- 10:30 B. K. SWARTZ, JR. (Ball State Univ.)
Excavations at the New Castle Site, Indiana
- 10:55 LAWRENCE MILLS (Central College)
Mississippian Hunchback Effigy Jars and Their
Kinship to the Old God of Central Mexico.

3. GREAT BASIN, II

Chairman: Jesse D. Jennings (Univ. of Utah)

(Joint Session of the Society for American Archaeology
and the Great Basin Anthropological Conference)

- 9:00 RUTH GRUHN (Univ. of Alberta, Edmonton)
Two Early Radiocarbon Dates from the Lower Levels
of Wilson Butte Cave, Idaho: Provenience and
Significance.
- 9:25 DONALD R. TUOHY (Nevada State Museum)
An Archaeological Study of the Pyramid Lake
Paiute Indian Reservation, Nevada.
- 9:40 CHARLES E. ROZAIRE (Los Angeles County Museum of
Natural History)
The Chronology of Woven Materials from the Caves at
Falcon Hill, Washoe County, Nevada.
- 10:05 Coffee Break
- 10:30 THOMAS N. LAYTON (Univ. of California, Davis)
The Archaeology of Smokey Creek Cave.
- 10:55 RICHARD D. AMBRO (Univ. of California, Berkeley)
Implications of Coprolitic Analysis to the
Archaeology of the Lower Humboldt Valley.
- 11:20 RICHARD A. COWAN (Univ. of California, Berkeley)
Implications of Coprolitic Analysis to the Ethnography
of the Lower Humboldt Valley.

4. SOUTHWEST, III

Chairman: J. CHARLES KELLEY (Southern Illinois Univ.)

- 9:00 LARRY D. AGENBROAD (Univ. of Arizona)
Preliminary Report on a Desert Culture Site:
San Pedro River Valley, Arizona.
- 9:25 REYNOLD J. RUPPE' (Arizona State Univ.)
An Intensive Survey of the Hohokam Sites in the
Salt River Drainage, Southern Arizona.
- 9:40 JOHN C. IVES (Arizona State Univ.)
Four Early Hohokam Burials.
- 10:05 Coffee Break
- 10:30 DAN J. OFFENRING (Arizona State Univ.)
The Hohokam as Gatherers.
- 10:55 WILLIAM W. WASLEY (Univ. of Arizona)
Classic Period Hohokam.
- 11:20 J. CHARLES KELLEY (Southern Illinois Univ.)
Sipapu and Plaza Too?

SATURDAY AFTERNOON, MAY 7

1. ARCHAEOLOGICAL METHODS, II

Chairman: LEWIS R. BINFORD (Univ. of California,
Santa Barbara)

- 1:20 DEE F. GREEN and WILLIAM J. COFFMAN (Univ. of Missouri)
Sexing and Ageing Skeletons with a Whole-Body
Counter: a New Archaeological Technique.
- 1:45 WILLIAM E. EDWARDS (Univ. of South Carolina)
Methods of Testing Pleistocene Extinction Hypotheses.
- 2:10 LEWIS R. BINFORD (Univ. of California, Santa Barbara)
An Analogy: Smudge Pits and Hide-Smoking.
- 2:35 JAMES N. HILL (Univ. of California, Los Angeles)
Fossil Pollen in Archaeology: Two New Uses.
- 3:00 Coffee Break
- 3:25 WILLIAM A. LONGACRE and JAMES E. AYRES (Univ. of Arizona)
Archaeological Theory: Some Lessons from an Apache
Wickiup.
- 3:50 EDWIN N. WILMSEN (Univ. of Arizona)
Description and Analysis of Flaked-Stone Artifacts.
- 4:15 RICHARD G. SENSE (Univ. of Arizona)
Possible Sources of Error in Ceramic Paste Analysis.

2. CALIFORNIA ARCHAEOLOGY

Chairman: MAKOTO KOWTA (Univ. of California, Riverside)

- 1:45 DONALD S. MILLER (Univ of California, Los Angeles),
JAY W. RUBY (Univ. of California, Davis) and
LINDA LEVINE (Univ. of California, Los Angeles)
A Hole in the Roof.
- 2:10 MAKOTO KOWTA (Univ. of California, Riverside)
The Sayles' Site: a Late Milling Stone Assemblage from
Cajon Pass, California.
- 2:35 EMMA LOU DAVIS (Univ. of California, Los Angeles)
A Stratified Lake Mohave Site in Panamint Valley,
California.
- 3:00 Coffee Break
- 3:25 DAVID A. FREDRICKSON (Univ. of California, Davis) and
JOEL GROSSMAN (Univ. of California, Berkeley)
Radiocarbon Dating of an Early Site at Buena Vista
Lake, California.
- 3:50 LEIF C. W. LANDBERG (Univ. of California, Davis)
Historical Perspectives on the Aboriginal Fisheries
of the Santa Barbara Region, California.
- 4:15 JERALD JAY JOHNSON (Univ. of California, Davis)
Temporal Relationships of Central Sierra Nevada
Foothill Sites to Lower Sacramento and San Joaquin
Valley Sites.

GREAT BASIN ANTHROPOLOGICAL CONFERENCE: ETHNOLOGY

Chairman: PAUL H. EZELL (San Diego State College)

- 1:45 HAROLD A. HUSCHER (Smithsonian Institution)
Age-Area Principles in Practical Applications.
- 2:10 THOMAS R. GARTH (Orange Coast College)
The Plateau Whipping Complex and its Relationships
to Plateau - Southwest Contacts.
- 2:35 JOHN A. PRICE (Univ. of California, Los Angeles)
A Progress Report of Research on Contemporary Indian
Life in Southern California.
- 3:00 Coffee Break
- 3:25 JOY LELAND and CATHERINE S. FOWLER (Univ. of Nevada)
Northern Paiute Ethnobotany: a Preliminary Report.
- 3:50 ANITA SPRING (San Francisco State College)
Changing Washo Marriage Patterns.
- 4:15 SHIRLEY W. LEE (Stanford Univ.)
A Survey of Acculturation in the Intermontane
Area of the United States.