MARQUARDT

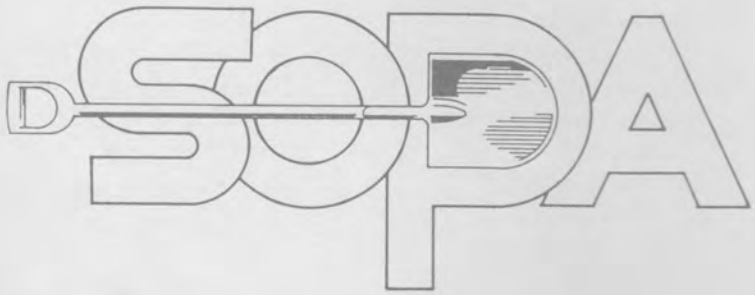
Society for American Archaeology

Program of the 58th Annual Meeting

April 14–18, 1993

Adam's Mark Hotel

The Society of Professional Archeologists



The Society of Professional Archeologists was formed in 1976 from a committee of the Society for American Archaeology. Since its inception, SOPA has grown in size, responsibility, and influence. SOPA is widely recognized for its continuing commitment to promote high standards of research and performance within the profession.

The Society of Professional Archeologists invites and encourages all archeologists to join ranks with the growing number of SOPA applicants and members. For information on how to join, please visit the SOPA information table at this conference, or contact:

William B. Lees
Archaeology Department
Kansas State Historical Society
120 W. Tenth
Topeka, KS 66612-1291
Telephone: (913) 296-2625

PROGRAM
of the Fifty-Eighth Annual Meeting
Adam's Mark Hotel
ST. LOUIS, MISSOURI
April 14–18, 1993

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The annual meeting of the Society for American Archaeology provides a forum for the dissemination of knowledge and discussion. The views expressed at the sessions are solely those of the speakers and the Society does not endorse, approve, or censor them. Descriptions of events and titles are those of the organizers, not the Society.

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DIRECTORY OF MEETING ROOMS THE ADAM'S MARK HOTEL

PROMENADE (2ND FLOOR)

Promenade Ballroom A
Promenade Ballroom B
Promenade Ballroom C
Promenade Ballroom D
Promenade Ballroom E
Promenade Ballroom F

Promenade Directors' Rooms (DR) 21–29

Promenade Pre-Convene Area

ST. LOUIS (4TH FLOOR)

St. Louis Ballroom A
St. Louis Ballroom B
St. Louis Ballroom C
St. Louis Ballroom D
St. Louis Ballroom E
St. Louis Ballroom F
St. Louis Ballroom G
St. Louis Ballroom H

St. Louis Directors' Rooms (DR) 41–48

St. Louis Pre-Convene Area

Rose Garden

**For more information, please refer to hotel monitors and floor directories.

GENERAL INFORMATION

Abstracts of all formal presentations at the meeting are published in the SAA Annual Meeting Abstracts and may be purchased at the registration desk. Price: Members—$10.00, Non-Members—$12.00. Copies may also be ordered prepaid from the Society, 900 Second Street NE, Suite 12 Washington, DC 20002.

Business Meeting The Society's Annual Business Meeting will be held at 5:30 p.m. on Friday, April 16 in Promenade Ballroom D.

Childcare The Adam's Mark Hotel can provide a list of independent babysitters and nannies that can provide childcare for infants and children. These services and individuals have no affiliation with the hotel, or with SAA, and must be contacted directly to make arrangements prior to the meetings. The SAA can take no responsibility for these services.

Convention Office Any problems or special requests during the meeting should be reported to the Convention Office.

Exhibits Exhibits will be displayed in the St. Louis Ballroom E from 9 a.m.–5 p.m. on Thursday, April 15 and Friday, April 16, and 9 a.m.–2 p.m. on Saturday, April 17.

Membership Services Membership information will be available in the exhibits room during exhibit hours.

Message and Information Center A self-service message center and locator file will be open in the St. Louis Coatroom on Wednesday from 5 p.m.–8 p.m., and on Thursday from 8 a.m.–5 p.m. The Center will relocate to the Promenade Coatroom on Friday from 8 a.m.–5 p.m., and on Saturday and Sunday from 8 a.m.–Noon. Any problems should be reported to the Center.

Placement Service will be conducted in Director's Room 28 on Wednesday from 5 p.m.–8 p.m., on Thursday and Friday 8 a.m.–5 p.m., and on Saturday 8 a.m.–Noon. Positions open or wanted may be listed with the service throughout the meeting. Message forms will be provided and box numbers will be assigned for use in the placement service message center.

Poster Sessions will be located in the St. Louis Level Pre-Convene area, Thursday, April 15–Friday, April 16 and in the Promenade level Pre-Convene area, Saturday, April 17.

Press Room is located in Director's Room 27.

Registration is required for attendance at all sessions and exhibits. Registration will be open on Wednesday, from 5 p.m.–8 p.m., on Thursday from 7:30 a.m.–3 p.m., on Friday from 8 a.m.–3 p.m., and on Saturday, from 8 a.m.–Noon. Individuals who pre-registered by March 24 should claim their badges and programs at the Pre-Registration counters. Individuals who have not pre-registered, should report to the On-Site Registration counter. Wearing of the badge is required for all admission to all sessions and the exhibits.

Student and New Member Reception Officers of the Society will host a reception for students, new members and members attending their first annual meeting on Wednesday, April 14 at 8 p.m. in Promenade Ballroom B.

Symposia and Session Chairs Please maintain the established schedule scrupulously in fairness to persons planning to attend sessions at specific times to hear particular speakers; please pause for the period allotted in the program if a scheduled speaker fails to appear.

Session Smoking Ban Smoking during sessions will not be permitted.

Slide Screening Room A 35 mm slide projector and screen will be available in Directors room 27 Wednesday, April 14 at 6 p.m. and thereafter throughout the meeting for presenters who wish to check their slides before presentation. Speakers should provide their own carousel.

ANNUAL MEETINGS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

Meeting	Place	Date
1st	Andover, Massachusetts	December, 1935
2nd	Washington, DC	December, 1936
3rd	Milwaukee, Wisconsin	May, 1938
4th	Ann Arbor, Michigan	May, 1939
5th	Indianapolis, Indiana	April, 1940
6th	Minneapolis, Minnesota	May, 1941
7th	Cincinnati, Ohio	May, 1942
8th	Because of travel difficulties and other wartime restrictions, the business of the Annual Meeting in 1943 was conducted by mail by the Executive Committee, whose actions were approved at the next Annual Meeting.	
9th	Washington, DC	May, 1944
10th	Washington, DC	May, 1945
11th	Indianapolis, Indiana	May, 1946
12th	Ann Arbor, Michigan	May, 1947
13th	Milwaukee, Wisconsin	May, 1948
14th	Bloomington, Indiana	May, 1949
15th	Norman, Oklahoma	May, 1950
16th	Evanston, Illinois	May, 1951
17th	Columbus, Ohio	May, 1952
18th	Urbana, Illinois	May, 1953
19th	Albany, New York	May, 1954
20th	Bloomington, Indiana	May, 1955
21st	Lincoln, Nebraska	May, 1956
22nd	Madison, Wisconsin	May, 1957
23rd	Norman, Oklahoma	May, 1958
24th	Salt Lake City, Utah	May, 1959
25th	New Haven, Connecticut	May, 1960
26th	Columbus, Ohio	May, 1961
27th	Tucson, Arizona	May, 1962
28th	Boulder, Colorado	May, 1963
29th	Chapel Hill, NC	May, 1964
30th	Urbana, Illinois	May, 1965
31st	Reno, Nevada	May, 1966
32nd	Ann Arbor, Michigan	May, 1967
33rd	Santa Fe, New Mexico	May, 1968
34th	Milwaukee, Wisconsin	May, 1969
35th	Mexico City, Mexico	May, 1970

Meeting	Place	Date
36th	Norman, Oklahoma	May, 1971
37th	Bal Harbour, Florida	May, 1972
38th	San Francisco, CA	May, 1973
39th	Washington, DC	May, 1974
40th	Dallas, Texas	May, 1975
41st	St. Louis, Missouri	May, 1976
42nd	New Orleans, Louisiana	April, 1977
43rd	Tucson, Arizona	May, 1978
44th	Vancouver, Canada	April, 1979
45th	Philadelphia, PA	May, 1980
46th	San Diego, California	April–May 1981
47th	Minneapolis, Minnesota	April, 1982
48th	Pittsburgh, Pennsylvania	April, 1983
49th	Portland, Oregon	April, 1984
50th	Denver, Colorado	May, 1985
51st	New Orleans, Louisiana	April, 1986
52nd	Toronto, Ontario, Canada	May, 1987
53rd	Phoenix, Arizona	April, 1988
54th	Atlanta, Georgia	April, 1989
55th	Las Vegas, Nevada	April, 1990
56th	New Orleans, Louisiana	April, 1991
57th	Pittsburgh, Pennsylvania	April, 1992
58th	St. Louis, Missouri	April, 1993

ANAHEIM in 1994

Plan now to attend the Society's Fifty-Ninth Annual Meeting to be held at the Disneyland Hotel, Anaheim, California, April 20–24, 1994. Guidelines for contributors for those who wish to submit papers or posters for consideration are available from the SAA office, 900 Second Street NE, Suite 12, Washington, DC 20002.

PAST PRESIDENTS OF THE SOCIETY FOR AMERICAN ARCHAEOLOGY

(*Deceased)

A. C. Parker*	1935–36	Erik K. Reed	1960–61
Diamond Jeness*	1936–37	Junius Bird*	1961–62
A. V. Kidder*	1937–38	David Baerreis*	1962–63
Edgar B. Howard*	1938–39	James A. Ford*	1963–64
Neil Judd*	1939–40	Albert C. Spaulding*	1964–65
W.C. McKern*	1940–41	Paul S. Martin*	1965–66
Glenn Black*	1941–42	Joe B. Wheat	1966–67
Nels C. Nelson*	1942–43	Gordon R. Willey	1967–68
Emil Haury	1943–44	H. Marie Wormington	1968–69
J. Alden Mason*	1944–45	Ignacio Bernal	1969–70
Carl E. Guthe*	1945–46	Robert Lister*	1970–71
Frederick Johnson	1946–47	Richard S. Mac Neish	1971–72
Douglas S. Byers*	1947–48	Charles DiPeso*	1972–73
Waldo R. Wedel	1948–49	Douglas Schwartz	1973–74
J. O. Brew*	1949–50	Charles McGimsey III	1974–75
Frank Roberts Jr.*	1950–51	Stuart Streuver	1975–76
James B. Griffin	1951–52	Raymond H. Thompson	1976–77
Irving Rouse	1952–53	Cynthia Irwin–Williams*	1977–78
Gordon F. Ekholm*	1953–54	Fred Wendorf	1979–81
Robert Wauchope*	1954–55	Richard E.W. Adams	1981–83
W. Duncan Strong*	1955–56	George L. Frison	1983–85
William A. Ritchie	1956–57	Don Fowler	1985–87
George I. Quimby	1957–58	Dena Dincauze	1987–89
Richard Woodbury	1958–59	Jeremy Sabloff	1989–91
Jesse D. Jennings	1959–60	Prudence Rice	1991–93

AWARDS TO ARCHAEOLOGISTS
Compiled by N. Woodbury

The Viking Fund Annual Awards in Anthropology (provided by the Wenner-Gren Foundation) consisted of three Viking Fund Medals, with accompanying Viking Fund Prizes of $1000 each. These were awarded annually 1946-1960 for distinguished research, publication and contribution to science. Scholars were selected by committees of their respective societies, in archaeology by the Society for American Archaeology, in general anthropology by the American Anthropological Association and in physical anthropology by the American Association of Physical Anthropologists.

The awardees in archaeology are:

1946 Alfred Vincent Kidder
1947 John Otis Brew
1948 Alex Dony Krieger
1949 Hallam Movius, Jr.
1950 Emil Walter Haury
1951 F.H.H. Roberts, Jr.
1952 Alfonso Caso
1953 Gordon Randolph Willey
1954 William Strong
1955 John Erick Thompson
1956 Junius Bouton Bird
1957 James Bennett Griffin
1958 Jesse David Jennings
1959 Irving Rouse
1960 Samuel Kirkland Lothrop

The Alfred Vincent Kidder Award, a bronze medallion bearing the likeness of Kidder, was established in 1950 as a tribute to the leadership of A. V. Kidder by the American Anthropological Association. It has been awarded every three years for emminence in American archaeology, particularly in those fields in which Kidder contributed so much, the Southwestern United States and Middle America.

The awardees have been:

1950 Alfred Marston Tozzer
1953 Earl Halstead Morris
1956 Samuel Kirkland Lothrop
1959 Charles Corrinido Di Peso
1962 Tatiana Proskouriakoff
1965 Neil Merton Judd
1968 Paul Sidney Martin
1977 Emil Walter Haury
1971 Richard MacNeish
1974 Gordon Willey
1980 William Sanders
1983 Samuel Watson Smith
1986 Ignacio Bernal
1989 Richard Woodbury
1992 Kent V. Flannery

The Distinguished Service Award of the Society for American Archaeology was established in 1975. In 1980 it was decided to make the award annually. It consists of a framed inscripted citation.

The awardees have been:

1975 Carl Haley Chapman
Charles R. McGimsey III
1980 Gordon Randolph Willey
1981 Albert Clanton Spaulding
1986 Waldo R. Wedel
1987 William Ritchie
1988 Richard Woodbury
Natalie Woodbury

1982 Jesse David Jennings
1983 Hannah Marie Wormington
1984 James Griffin
1985 Emil Walter Haury
1989 George Irving Quimby
1990 Fred Wendorf
1991 Douglas Schwartz
1992 John E. Yellen

The *Fryxell Award for Interdisciplinary Research* was set up by the Society for American Archaeology in 1977 in memory of Roald Fryxell whose career exemplified so well the crucial role of interdisciplinary cooperation in archaeology. The award, consisting of a citation and a medallion, was to be presented annually; however, no award was made in 1984.

The awardees have been:

1978 C. Vance Haynes
1979 Peter J. Mehringer
1980 James B. Griffin
1981 Karl Butzer
1982 David J. Baerreis
1983 John E. Guilday (posthumously)
1984 (No award)
1985 Roger T. Saucier
1986 Donald Grayson
1987 Richard Ford
1988 David Hopkins
1989 Joseph Lambert
1990 Patty Jo Watson
1991 Paul Parmalee
1992 Richard Yarnell

The *Crabtree Award* was established by the Society for American Archaeology in 1985 to recognize major contributions to American archaeology by individuals who have had little if any formal training in archaeology and little if any wage or salary as an archaeologist. The award is named after Don Crabtree of Twin Falls, Idaho, who made signifigant contributions to the study of lithic technology and whose dedication to archaeology was a lifelong personal and financial commitment.

The awardees have been:

1985 Clarence Webb, MD
1987 Leonard Blake
1988 Julian Dodge Hayden
1989 J.B. Sollberger
1990 Ben McCary
1991 James Pendergast
1992 Stuart W. Conner

The *SAA Dissertation Prize* is awarded to archaeologists just entering the profession whose doctoral theses are judged to be particularly outstanding. The prize consists of Life Membership in the Society and is awarded at the Annual Meeting of the Society.

The awardees have been:

1988 Judith A. Habicht Mauche
Harvard University
1990 David J. Bernstein
State University of
New York at Stonybrook
1991 David Anderson
University of Michigan
1992 Lynette C. Norr
University of Illinois

BUSINESS & SOCIAL EVENTS SUMMARY SCHEDULE

MONDAY, APRIL 12, 1993

8:30 A.M. National Forest Service Annual Meeting—**DR 47**
1:00 P.M. Bureau of Land Management Meeting—**DR 46**
1:00 P.M. Archaeological Assistance Program—**DR 22**
1:00 P.M. Soil Conservation Service Meeting—**DR 44**

TUESDAY, APRIL 13, 1993

8:00 A.M. Soil Conservation Service Meeting—**DR 44**
8:00 A.M. University of Nevada at Reno Workshop-"What's the Question?" Archaeological Research Design in CRM—**DR 41**
8:00 A.M. University of Nevada at Reno Workshop-Geographical Information Systems in Archaeology—**DR 46**
8:00 A.M. Bureau of Land Management Meeting—**DR 43**
8:00 A.M. U.S. Army Corps of Engineers Meeting—**St. Louis A**
8:00 A.M. National Park Service Regional Archaeologists—**DR 42**
8:30 A.M. National Forest Service Annual Meeting—**DR 47**
9:00 A.M. Archaeological Assistance Program (NPS) Annual Meeting—**DR 22**
4:00 P.M. **SAA Executive Board Meeting—755**

WEDNESDAY, APRIL 14, 1993

8:00 A.M. Society for Historical Archaeology Executive Board Meeting—**DR 45**
8:00 A.M. **SAA Executive Board Meeting—DR 23**
8:00 A.M. Bureau of Land Management Meeting—**DR 43**
8:00 A.M. **SAA Government Affairs Committee Meeting—DR 22**
8:00 A.M. University of Nevada at Reno Workshop-"What is the Question?" Archaeological Research Design in CRM—**DR 41**
8:00 A.M. University of Nevada at Reno Workshop-Geographical Information Systems in Archaeology—**DR 46**
8:00 A.M. University of Colorado Museum Cultural Property Workshop—**St. Louis B**
8:00 A.M. National Park Service Archaeologists Conference—**St. Louis C**
8:00 A.M. Association of Transportation Archaeology—**St. Louis F**
8:00 A.M. Soil Conservation Service Meeting—**855**

8:00 A.M.	**SAA Public Education Committee Meeting—DR 24**
8:00 A.M.	Bureau of Land Management—**1455**
8:30 A.M.	National Association of State Archaeologists Symposium & Business Meeting—**DR 42**
8:30 A.M.	National Forest Service Annual Meeting—**DR 47**
9:00 A.M.	U.S. Army Corps of Engineers Meeting—**St. Louis A**
10:00 A.M.	U.S. Air Force Cultural Resource Managers Meeting—**DR 29**
1:00 P.M.	**SAA Public Education Committee Meeting—DR 24**
1:00 P.M.	NPS National Archaeological Database Workshop (OPEN)—**755**
2:00 P.M.	**SAA Committee on Public Archaeology Meeting—St. Louis G**
8:00 P.M.	**SAA Student and New Member Reception—Promenade B**

THURSDAY, APRIL 15, 1993

8:00 A.M.	Bureau of Land Management—**1455**
8:00 A.M.	Society of Professional Archaeologists Board Meeting—**DR 47**
8:30 A.M.	American Society of Conservation Archaeology Meeting/Symposium—**DR 46**
9:00 A.M.	**SAA Finance Committee Meeting—DR 45**
11:30 A.M.	**SAA President's Advisory Committee Luncheon & Meeting (by invitation)—DR 42**
12:00 P.M.	Society of Professional Archaeologists Business Meeting—**DR 46**
12:30 P.M	Society for Archaeological Sciences Executive Committee Meeting—**DR 45**
2:00 P.M.	Society of Professional Archaeologists 2nd Board Meeting—**DR 47**
2:30 P.M.	Foundation for American Archaeology Board Meeting—**DR 45**
4:00 P.M.	American Society for Conservation Archaeology Business Meeting—**DR 46**
4:30 P.M.	Archaeology for Educators Special Workshop—**DR 44**
5:00 P.M.	NPS Intersociety Public Education Work Group Meeting—**DR 24**
5:30 P.M.	Society for Archaeological Sciences Annual Business Meeting—**DR 46**

FRIDAY, APRIL 16, 1993

8:00 A.M.	Bureau of Land Management—**1455**
8:00 A.M.	American Anthropological Association Archaeology Division Executive Committee Meeting—**DR 21**
8:00 A.M.	*Latin American Antiquity* Editorial Committee Meeting—**DR 23**
8:30 A.M.	Council of Affiliated Societies Workshop—**DR 26**
9:00 A.M.	Stewardship: Who Gets Involved? Workshop—**DR 25**
12:00 P.M.	*American Antiquity* Board Meeting—**1555**
12:00 P.M.	Society for Phytolith Research Board Meeting—**DR 29**
4:00 P.M.	**SAA Student Affairs Committee Meeting—DR 26**
4:30 P.M.	Archaeology for Educators Special Workshop—**DR 25**

4:30 P.M.	**SAA Public Relations Committee Press Workshop—DR 24**
5:00 P.M.	Society for Phytolith Research Annual Business Meeting—**DR 29**
5:30 P.M.	**SAA Annual Business Meeting—Promenade D**
8:30 P.M.	Women in Archaeology Cash Bar Reception—**St. Louis F**

SATURDAY, APRIL 17, 1993

8:00 A.M.	**SAA Executive Board Meeting—DR 22**
8:30 A.M.	**SAA Council of Affiliated Societies Council Meeting—DR 47**
8:30 A.M.	Archaeology for Educators Special Workshop—**DR 25**
10:00 A.M.	Society of Professional Archaeologists Membership Application Workshop—**DR 23**
1:00 P.M.	**SAA Public Session**—"Mysteries in Archaeology"—**St. Louis D**
3:30 P.M.	**SAA Public Session**—Poster Display, Information Exchange & Mayfield Publishing Reception/Booksigning—**St. Louis D**

SPECIAL TOURS

MISSOURI HISTORICAL SOCIETY

Wednesday, April 14

If you are registered for the 2:00 p.m.–4:00 p.m. tour of the Library and Collections Center of the Missouri Historical Society, please convene in the lobby of the Adam's Mark Hotel by 1:20 p.m. to board the bus. (see below)

BUS SCHEDULE

1:30 p.m. Bus will depart the Adam's Mark Hotel for the Missouri Historical Society.
4:15 p.m. Bus will depart Missouri Historical Society for the Adam's Mark Hotel.

WASHINGTON UNIVERSITY ARCHAEOLOGY LAB TOUR

Wednesday, April 14

If you are registered for one of the three tours of the Washington University Archaeology labs at 2:00 p.m., 3:00 p.m., or 4:00 p.m., please convene in the lobby of the Adam's Mark Hotel ten minutes prior to bus departure. (see below)

BUS SCHEDULE

1:30 p.m. Bus will depart the Adam's Mark Hotel for the 2:00 p.m. lab tour at the Washington University.
2:30 p.m. Bus will depart the Adam's Mark Hotel for the 3:00 p.m. lab tour at the Washington University.
3:00 p.m. Bus will depart the Washington University for the Adam's Mark Hotel to return individuals who participated in the 2:00 p.m. lab tour.
3:30 p.m. Bus will depart the Adam's Mark Hotel for the 4:00 p.m. lab tour at the Washington University.
4:00 p.m. Bus will depart the Washington University for the Adam's Mark Hotel to return individuals who participated in the 3:00 p.m. lab tour.
5:00 p.m. Last Bus will depart the Washington University for the Adam's Mark Hotel to return individuals who participated in the 4:00 p.m. lab tour.

CAHOKIA MOUNDS TOURS AND RECEPTION

Saturday, April 17
Sponsored by
Cahokia Mounds Museum Society and Cahokia Mounds Historic Site

Representing the most complex prehistoric polity to develop North of Mexico, the Cahokia Site is located only a half hour's drive East of St. Louis. A magnificent new museum highlights different aspects of Cahokia life, and a traveling exhibit on Tikal is also available for viewing.

CAHOKIA ACTIVITIES

- 15 minute orientation film in the Interpretive Center at 3:00 p.m. and 4:00 p.m.
- Following orientations, self-guided tours until dusk. (Printed tour books are sold in the Museum Shop for 75 cents, and tapes are available on loan.)
- There are three trails available for self-guided tours, all are marked and each require 30 to 45 minutes to complete. Comfortable shoes and clothing are a must.

IMPORTANT

Visitors will not be allowed in the Interpretive Center from 5:00 p.m. to 6:00 p.m., to allow the Center to set up for the reception. Buses will be on hand to either return members to the hotel for the evening, or in case of inclement weather, to offer a resting spot for those individuals who remain for the evening's reception.

CAHOKIA RECEPTION

The reception will be held from 6:00 p.m. to 9:00 p.m. During the reception, there will be a sit-down, 7:00 p.m. lecture on Tikal by Vivian Broman de Morales, Vice President of the Tikal Association, in the Interpretive Center's auditorium. Please keep in mind that the Cahokia Mounds Museum Society and Cahokia Mounds Historic Site are hosting these activities on their own, and like any event, there are limitations. They will be able to accommodate a maximum of 400 people for the reception, and 250 people for the lecture.

BUS SCHEDULE

2:00 p.m. Buses will depart the Adam's Mark Hotel for the Cahokia Mounds Historic Site.
5:00 p.m. A bus will return any members to the hotel who *do not* wish to attend the reception.
5:30 p.m. Buses will depart the Adam's Mark Hotel for the Cahokia Mounds Reception.
8:00 p.m. Buses will depart Cahokia for the Adam's Mark Hotel.
9:00 p.m. Buses will depart Cahokia for the Adam's Mark Hotel.

The bus trip is approximately 30 minutes. Individuals who have purchased bus tickets should convene in the lobby area of the Adam's Mark Hotel. For those who wish to drive private cars, limited parking is available.

SPECIAL WORKSHOPS

With the exception of the Archaelogy Training Programs for Volunteers, participation in special workshops is by pre-registration only.

Archaeology for Educators

Thursday–Friday, April 15–16, 4:30 p.m. to 7:30 p.m.
Saturday, April 17, 8:30 a.m. to 3:30 p.m.
Session Chair: Jeanne Moe

This 15-hour workshop for all educators including teachers, museum staff, and outdoor program leaders, is a showcase of exiting archaeology education programs. Participants discover the science of archaeology through hands-on activities. They are then equipped to teach archaeology concepts to both children and adults in a variety of settings. Exercises in values identification and clarification surrounding the issues of archaeological stewardship and an overview of Native American perspectives on the past complete the workshop instruction. Although the workshop is designed for educators, archaeologists are invited to attend.

Stewardship: Who Gets Involved?

Friday, April 16, 9:00 a.m. to 10:30 a.m.
Session Chair: Shereen Lerner

This 1 1/2 hour workshop will present ways to involve the public. The Arizona Site Steward program will be used as a model for involving the public in protecting their sites. With more than 350 people enrolled in the program, it has successfully brought to the public a way to get involved on their own terms.

"But That's Not What I Think I Said:" How to Improve Your Ability to Communicate With Press and Public—And Why?

Friday, April 16, 4:30 p.m. to 7:00 p.m.

This 2-hour P.R. Committee Press Workshop will analze difficulties archaeologists encounter when dealing with journalists and vice-versa. Media representatives will explain their needs, suggesting ways to avoid misinterpretation and improve coverage.

University of Colorado Cultural Property Workshop

Wednesday, April 14, 8:00 a.m. to 5:00 p.m.
Session Chairs: Frederick W. Lange, Curator of Anthropology, University of Colorado Museum, and Ann Guthrie Hingston, independent cultural property consultant.

Learn how to involve the United States Government in helping the countries where you do research to protect their cultural patrimony. Learn how to request a bilateral agreement under the UNESCO treaty; how the U.S. National Stolen Property Act applies, and more.

University of Nevada, Reno Seminars

"What is the Question?" Archaeological Research Design in CRM

Tuesday, April 13–Wednesday, April 14, 8:00 a.m. to 5:00 p.m.
Instructors: Robert Elston, a principal and research director of Intermountain Research.
Christopher Raven, a senior staff archaeologist at Intermountain Research.

Geographical Information Systems in Archaeology

Tuesday, April 13–Wednesday, April 14, 8:00 a.m. to 5:00 p.m.
Instructor: W. Fred Limp, Ph.D., director of the Center for Advanced Spatial Technology at the University of Arkansas.

Archaeology Training Programs for Volunteers: A Workshop of Ideas for Archaeologists & Volunteers!

Friday, April 16, 8:30 a.m. to 3:00 p.m.
Session Chair: Cathy Bolster-Poetschat
Instructors: Richard Waldbauer, Hester Davis

The morning session will offer an overview of training programs, including those of Oregon, Illinois, Utah and Arizona. The afternoon session will include panel and group discussions on ways to run training programs. Bring your knowledge, comments and questions!

ST. LOUIS CITY ACTIVITIES

Located at the confluence of the Missouri and Mississippi Rivers, St. Louis offers a wide variety of exciting things to see and enjoy. Indeed, during your stay at the Adams Mark Hotel, many of the fabulous sights are right at your doorstep.

GATEWAY ARCH AND MUSEUM OF WESTWARD EXPANSION Overseen by the National Park Service, the 640-foot Gateway Arch is the nation's tallest memorial. Films and exhibits on the frontier American West are presented in the theater and museum under the Arch. Each leg of the Arch has a passenger tram, $2.50 for adults, to carry visitors to an observation deck at the top. (Tickets are often sold out before the end of the day so purchase them early!)

OLD COURTHOUSE MUSEUM The five museum galleries in the Jefferson National Expansion Memorial depict St. Louis' role in westward expansion. There are two restored courtrooms typical of the mid-1800's; daily tours and films are offered.

ST. LOUIS SCIENCE CENTER The Science Center offers 7 different galleries, an OMNIMAX Theater and a Planetarium. Hours of operation are from 9:30 am to 5:00 pm on Sunday through Thursday and 9:30 a.m. to 9:00 p.m. on Friday and Saturday. Admission is free. A special exhibit called "Odyssey of Wonders" will examine things like gravity, rainbows and shadows during the SAA Conference.

GATEWAY RIVERBOAT CRUISES You can reflect on the days when riverboats and the Mississippi River were the center of life by stepping aboard the Huck Finn and Tom Sawyer Riverboats—replicas of the 19th century steamboats. There are frequent departures of narrated, one hour cruises.

ST. LOUIS ZOO One of the few free zoos in the country houses more than 3,400 animals. The zoo is open daily, 9:00 a.m. to 5:00 p.m.

ST. LOUIS CARDINALS HALL OF FAME & BUSCH STADIUM TOUR While the St. Louis Cardinals will not be in town during the SAA Conference, the hall of fame and stadium are two places any baseball fan would enjoy.

Visit our Booth at SAA '93

Ground Breaking Titles

New.

The Aztecs, Maya, and Their Predecessors Third Edition

Archaeology of Mesoamerica

Muriel Porter Weaver

The Third Edition of this highly successful introduction to the archaeology of Mesoamerica includes full coverage of the Aztec and Maya areas in one volume. Beginning with the settling of the New World and continuing through the Spanish conquest of Mesoamerica in 1521, this completely updated textbook contains the latest information on new approaches, theories, sites, and areas of investigation. This information reflects the work of a new generation of researchers whose recent discoveries have shed new light on many of the ideas that have shaped the last 50 years of Mesoamerican archaeology.

Key Features

- All-in-one textbook covering the Aztecs (central Mexico) and the Maya (Yucatan and Central America) in one volume
- Spans the period from the settling of the New World until the Spanish Conquest of Mexico
- Shows the growth and collapse of the Olmec, Teotihuacan, Maya, Toltec, and Aztec empires
- Includes a chapter on Mesoamerica's relationship to the northeast (southeastern United States) and to the Andean region of South America

January 1993, 567 pp., $54.95
ISBN: 0-12-739065-0

Deciphering A Shell Midden

edited by
Julie K. Stein

This book presents the latest research on shell middens—sites that contain shell located near coastal and fluvial settings around the world. The shell imparts certain characteristics to such sites such as complex discontinuous strata, low densities of artifacts, large volumes of deposits, alkaline chemistry, and proximity to fluctuating sea level.

1992, 375 pp., $89.95/ISBN: 0-12-664730-5

New.

Prehistoric Subsistence on the Southern New England Coast

The Record from Narragansett Bay

David J. Bernstein

This book examines long-term trends in prehistoric subsistence in the Narragansett Bay region of Southern New England. The results suggest that, unlike other areas of Eastern North America, specialized agricultural economies did not develop in this region prior to European contact. It also suggests that subsistence intensification was achieved through diversification and cultural modification of the landscape. This book incorporates specific observations and raw data in easy-to-use appendices. It also reviews results and features usable summary tables and figures. As such, the book is accessible to both the general reader as well as scholars and students interested in consulting the original data for their own research and analysis.

January 1993, 208 pp., $55.00
ISBN: 0-12-092870-1

A Marxist Archaeology

Randall H. McGuire

This book is an introduction to marxist theory as it applies to archaeology. It explores long-term historical change and cultural evolution, and advocates a dialectical and historical approach to the study of the past. It will be of interest to students and professionals in archaeology, and to science historians, theoreticians, and philosophers.

1992, 326 pp., $79.95/ISBN: 0-12-484078-7

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NOTES

Program

WEDNESDAY EVENING APRIL 14, 1993

[0] **Invited Symposium:** ***THE CROSS-IN-CIRCLE: QUARTERING CAHOKIA'S CONTACTS***

Room: St. Louis Ballroom F & G

Organizer: John Kelly

Participants:

7:00 John Kelly; Introduction

7:10 Melvin Fowler; Early Mississippian Cahokia: Woodhongos, Mound 72, and the Four Quarters of the World

7:35 James Stoltman; A Reconsideration of the Cultural Processes Linking Cahokia to Its Northern Hinterlands During the Period AD 1000–1200

8:00 James Brown; Is Spiro Cahokia's Caddoan Connection?

8:25 Dan Morse; The Lower Mississippi Valley and Cahokia

8:50 Robert Hall; Excavating Fossil Metaphors at Cahokia

8 PM Student reception Prom. B (2nd)

THURSDAY MORNING APRIL 15, 1993

[1] **Symposium:** ***THE BANDELIER ARCHAEOLOGICAL PROJECT: COLONIZATION, AGGREGATION, AND ABANDONMENT ON THE PREHISTORIC PAJARITO PLATEAU, NEW MEXICO***

Room: Promenade Ballroom B

Organizer: Timothy Kohler

Chairperson: Robert Powers

Participants:

8:20 Robert Powers and Timothy Kohler; Population and Settlement Aggregation on the Pajarito Plateau: The Bandelier Project

8:40 Tineke Van Zandt; Houses Made of Tuff: Anasazi Architecture at Bandelier National Monument

9:00 Angela Linse; Room Use and Disuse: Deciphering the Depositional Record at Burnt Mesa Pueblo and Punu Kunaete, New Mexico

9:20 Janet Orcutt; Risk, Aggregation, and Settlement Location on the Pajarito Plateau

9:40 Genevieve Head; A Surfeit of Stone? Lithic Resources and Social Development in Bandelier National Monument

10:00 Matthew Root and Douglas Harro; Anasazi Aggregation and Stone Tool Production on the Pajarito Plateau

10:20 James Vint; Sherds and the Social Milieu of Bandelier National Monument

10:40 W. Nicholas Trierweiler and Meredith Matthews; Temporal Changes in the Prehistoric Selection of Natural Resources: Excavated Biotic Materials from Bandelier National Monument

11:00 Timothy Kohler and Robert Powers: The Bandelier Archaeological Project: Towards a Revised Model for Aggregation, and Its Implications for the Study of Neolithic Village Formation Worldwide

11:20 Discussant: Keith Kintigh
11:40 Discussant: James Hill

[2] Symposium: ***ARCHAEOLOGICAL RESEARCH THROUGH VOLUNTEERISM: THE PASSPORT IN TIME EXPERIENCE***
Room: St. Louis Ballroom H
Organizer and Chairperson: Gordon Peters
Participants:
8:00 Jill Osborn, Gordon Peters, and Carl Davis; Research or Recreation?: Passport in Time
8:20 Halcyon La Point and William Kurtz; Investigating Custer's 1876 Trail on the Custer National Forest
8:40 Mark Bruhy; Copper Use Among Woodland Tradition People as Evidenced Through Excavations at the Hemlock Cathedral Site, Forest County, Wisconsin
9:00 Andrea Repp; The Langston Farm: Research Made Possible With Passport-in-Time
9:20 John Hanson, Lawrence Lesko, and Neil Weintraub; The Art and Archaeology of Snake Gulch, Arizona
9:40 Charmaine Thompson; Connecting Artifacts and Behaviors: Period Photos and the "Tin War" Site in Northwestern Utah
10:00 Kristin Griffin and Walt Allen; A Stratified Site in the Upper Yellowstone Valley: A Greater Understanding Achieved with the Contribution of Volunteers
10:20 Debra Dandridge and Claire Dean; Rock Art Conservation in Southeastern Colorado
10:40 David Huelsbeck and Ian Ritchie; The Essential Ingredient: Volunteers and a University Partnership as Crucial Elements in Historic Archaeological Research in the Stevens Pass Historic District, Washington
11:00 Robert Morgan, Gerald Schroedl, and James Bates; Chattooga PIT Project: The Archaeology and Ethnohistory of a Lower Cherokee Town
11:20 Ruth Brinker; Rockshelter Survey on the Hoosier National Forest
11:40 Discussant: Evan DeBloois

[3] Symposium: ***VANISHING SPACES—NATIVE AMERICAN SACRED PLACES***
Room: Promenade Ballroom D
Organizer: Sally Greiser
Organizer and Chairperson: Brian Reeves
Participants:
8:00 Patricia Parker; Sacred Lands and Implementation of National Register Bulletin 38
8:20 Reuban Snake; Indian Sacred Lands and Religious Freedom
8:40 Brian Reeves; Northwestern Plains Sacred Sites: Federal Agencies and Mutiple Land Use Conflicts
9:00 Curly Bear Wagner; Northwestern Plains Sacred Sites: A Blackfeet Perspective
9:20 T. Weber Greiser and Sally Greiser; Sacred Lands and Traditional Cultural Properties: Two World Views
9:40 Gordon Mohs; Sxwoxwiyam Stl'itl'aqemte Sto:lo, Spirits of the Ancestors
10:00 David Carmichael; Desecration of Hopi Sacred Sites in Navajo-Partitioned Lands
10:20 Sally Greiser; The Sacred Landscape of Taos
10:40 Lorraine Ruffing; Transnational Corporations and Indigenous Peoples: A View from the United Nations
11:00 John Ross, Jim SiJohn, and Robert Sherwood; Problems of Protecting On-Reservation Sacred Sites: A Spokane Case Study

11:20 Discussant: Benjamin Rhodd
11:40 Discussant: Sherri Deaver

[4] Symposium: ***STUDIES OF SUBSISTENCE AND SETTLEMENTS DURING THE JOMON PERIOD (10,000–300 BC) IN JAPAN***
Room: St. Louis Ballroom F
Organizer and Chairperson: Fumiko Ikawa-Smith
Organizer: Junko Habu
Participants:
8:00 Fumiko Ikawa-Smith; Settlement Studies in Japanese Archaeology: A Review
8:20 Simon Kaner; Jadeite, Snow and Ritual: Jomon Residential Shift Practices Along the Sea of Japan
8:40 Junko Habu; Subsistence-Settlement Systems in the Moroiso Phase, Early Jomon Period
9:00 Akira Matsui; Awazu Lake Bottom Site: A Study of Subsistence-Settlement Systems in Western Honshu
9:20 Brian Chisholm; Inland/Coastal Links as Seen from Isotopic Analysis of Japanese Prehistoric Human Burials
9:40 Tatsuo Kobayashi; Dual Organization of Jomon Communities
10:00 Yoshiyuki Tanaka; Tooth Measurements as Indicators of Kinship Distance and Post-Marital Residence Patterns in the Final Jomon of Western Japan
10:20 Peter Bleed and John Weymouth; A Nice Place to Live and Work: Community Structure at Yagi
10:40 Gary Crawford and Catherine D'Andrea; Zoku-Jomon (Epi-Jomon) Settlement Patterns Inferred from Archaeobotanical Studies
11:00 Discussant: Gina Barnes

[5] Symposium: ***INTERPRETING THE EVIDENCE FOR INTENSIVE AGRICULTURAL TECHNOLOGIES IN THE MAYA LOWLANDS***
Room: St. Louis Ballroom C
Organizer and Chairperson: Peter Harrison
Chairperson: B. L. Turner II
Participants:
8:00 Peter Harrison; Data and Interpretation
8:20 Nicholas Dunning; The Prevalence and Variety of Agricultural Terracing in the Maya Lowlands
8:40 Vernon Scarborough; Reservoir Dependency and Watershed Landscaping: Water Management in the Southern Maya Lowlands
9:00 Robert Fry; Chronologies and the Ceramics of Intensification
9:20 K. Anne Pyburn; When a House is not a Household: Variation Among the Ancient Maya Communities of Northern Belize
9:40 Eleanor King; A Review of the Evidence for Intensive Agriculture at Colha, Belize
10:00 Mary Pohl, Kevin Pope and John Jones; Interpretation of Lowland Maya Wetland Agriculture: A Multidisciplinary Approach
10:20 Charlie Miksicek; Archaeobotanical Evidence of Prehistoric Agricultural Innovation at Pulltrouser Swamp, Belize
10:40 T. Patrick Culbert and Laura Levi; Testing for Wetland Agriculture: The Problem of Methods

11:00 B. L. Turner; The Burden of Proof: The Evidence for Wetland Agriculture at Pulltrouser Swamp
11:20 Discussant: Don Rice
11:40 Discussant: Alan Kolata

[6] Invited Symposium: *ARCHAEOLOGY OF THE EASTERN WOODLANDS*
Room: Rose Garden
Organizer and Chair: Michael Stewart
Participants:
8:00 Michael Stewart; Introduction
8:20 James Petersen; Preceramic Manifestations in the Far Northeast: A Review of Recent Research
8:40 William Gardner; Life Between Fluted Points and Pottery: The Middle Atlantic Region from 8000–1200 B.C.
9:00 Michael Stewart; Woodland Prehistory of the Middle Atlantic Region
9:20 Richard Jeffries; The Status of Archaic Period Research in the North American Midcontinent
Susan dF 9:40 N'omi Greber and R. Berle Clay; Reconciling Adena and Hopewell
10:00 David Anderson; Recent Advances in Paleoindian and Archaic Period Research in the Southeast
10:20 Ian Brown; Recent Contributions to Woodland Stage Archaeology in the Southeastern U.S.
10:40 Jerald Milanich; Wet and Lively: Archaeology in Florida
11:00 Dan Morse; Changes in Interpretation in the Archaeology of the Central Mississippi Valley Since 1983
11:20 John Kelley; Contemplating the Contribution of Cahokia Archaeological Research to the Study of Mississippi Society

[7] Symposium: *ETHNOARCHAEOLOGY AND SITE STRUCTURE: THE ORGANIZATION OF DOMESTIC SPACE* POORLY TIMED
Room: Promenade Ballroom A
Organizers and Chairpersons: James Enloe and John Fisher, Jr.
Participants:
8:40 John Fisher and Jean Hudson; Comparison of Site Structure Between Two Tropical Forager Groups
9:00 Fiona Marshall and Tom Pilgram; Tetemwet: An Okiek Rockshelter and the Identification of Gender Based Use of Domestic Space
9:20 Karen Lupo and James O'Connell; Prey Anatomy, Assemblage Composition and Site Structure Among the Hadza
9:40 James Enloe; Did Paleolithic Hunters at Verberie Share Their Prey? Clues from Site Structure and Ethnoarchaeology
10:00 Diane Gifford-Gonzalez; Site Structure at Functionally Distinct Locales: An Ethnographic Example from the Dassenetch of Kenya
10:20 Kenneth Juell, Martha Boden,and John Bock; Preliminary Investigations of Site Structure at a haMbukushu Village, Okavango Delta, Northern Botswana
10:40 Robert Hitchcock; The Ethnoarchaeology of Space Use and Site Structure Among Southern African Agropastoralists
11:00 Philip Arnold; Domestic Activities and Houselot Organization in the Sierra de los Tuxtlas, Veracruz, Mexico

11:20 Todd Whitelaw; Putting Together the Pieces: Social and Symbolic Organization in Hunter-Gatherer Site Structure
11:40 Discussant: Susan Kent

[8] Symposium: *PALEONUTRITION: SELECTED PAPERS ON THE DIET AND HEALTH OF PREHISTORIC AMERICANS*
Room: St. Louis Ballroom A
Organizer and Chairperson: Kristin Sobolik
Participants:
9:00 Kristin Sobolik; Introduction: The Importance of Paleonutrition and a Summary of a Conference
9:20 Gayle Fritz; The Value of Archaeological Plant Remains for Paleodietary Reconstruction
9:40 Bonnie Styles; The Value of Archaeological Faunal Remains for Paleodietary Reconstruction
10:00 Joseph Ezzo and Harold Krueger; Diet, Nutrition, and Food Choice at Grasshopper Pueblo, Arizona
10:20 Christine Szuter; Nutrition, Small Mammals, and Agriculture
10:40 Linda Scott Cummings; Corn Again Tonight? A Nutritional Analysis of an Anasazi Diet
11:00 Mark Sutton and Karl Reinhard; Cluster Analysis of the Coprolites from Antelope House: Implications for Anasazi Diet and Cuisine
11:20 Vaughn Bryant, Jr.; Callen's Legacy

[9] Symposium: *THE CENTRALITY OF BIOARCHAEOLOGY: ANDEAN INSTANCES*
Room: St. Louis Ballroom B
Organizer and Chairperson: Robert Benfer
Participants:
9:00 Robert Benfer, Jr.; Bioarchaeological Test of Selectionist Hypotheses
9:20 Brigitte Holt; Phytoliths from Dental Calculus: Direct Evidence of Prehistoric Diet
9:40 Richard Sutter; Social Stratification of Dental Pathologies from Chiribaya Alta, a Late Intermediate Site
10:00 Maria Lozada, Rex Haydon, and Jane Buikstra; Approaches to the Study of Genetic Composition in Late Intermediate Period Chiribaya Settlements, Southern Peru
10:20 Robert Malina, Terence Grieder, and Alberto Mendoza; Skeletal Remains at La Galgada, Peru
10:40 Joseph Vradenburg and Sarah Meadors; Cardal: The Effects of Diet, Disease, and Health on a Late Initial Period Population
11:00 Anna McNair; The Increasing Economic Importance of Women in Preceramic Peru
11:20 Bernardo Arriaza: A Synthesis of Chinchorro Culture
11:40 Discussant: Richard Burger

[10] General Session: ARCHAEOLOGY IN ARKANSAS AND MISSOURI
Room: St. Louis Ballroom B
Chairperson: Burt Purrington
Participants:
7:40 Jeffrey Mitchem; Excavations at the Late Mississippian Parkin Site, Northeast Arkansas
7:50 Carol Diaz-Granados; A Stylistic, Contextual, and Functional Analysis of Missouri's Petroglyphs and Pictographs
8:00 Timothy Mulvihill; Graves #3: An Emergent Mississippian Site in Northeast Arkansas

8:10 Burton Purrington; Prospect Spring and the Woodland—Mississippian Transition on the Prairie-Forest Edge of the Western Missouri Ozarks
8:20 Kathleen Cande; The Menard-Hodges Site, Arkansas Revisited: Ceramics from the Village of Osotouy
8:30 Jack Ray: Excavation of an Early Archaic Upland Resource Extraction Site in Southwest Missouri

[11] General Session: *ARCHAEOLOGY IN WESTERN AND NORTHERN NORTH AMERICA*
Room: Directors Room 43
Chairperson: Thomas Hester
Participants:
8:00 Jerry Moore and Janine Gasco; Demographic Consequences of Spanish Colonialism Among Mobile Hunter-Gatherers in Baja California del Norte
8:20 Thomas Hester; Obsidian in Texas: Geologic Sources and Archaeological Interpretation
8:40 Patricia Lambert and Herbert Maschner; Violence and Warfare in Prehistoric Hunter-Gatherer Societies of Western North America
9:00 Peter Whitridge; The Spatial Analysis of Thule Whale Bone Distributions: A Case Study from the Central Candian Arctic
9:20 Michael Blake, Brian Thom, and Gary Coupland; Burial Mound Excavations at the Scowlitz Site, British Columbia
9:40 William Fawcett; Pahranagat Paiutes: Typical Desert Foragers, or Marginalized Farmers
10:00 Julie Francis and Mark Miller; They Aren't Just Foragers Anymore: New Perspectives on Early Archaic Adaptations in the Upper Green River Basin, Wyoming
10:20 Mary Larson; And Then There Were None. . .: The "Disappearance" of the Qargi in Northern Alaska
10:40 Martin Handly; Recent Investigations at Charlie Lake Cave (HbRf 39): Implications for Our Understanding of Subarctic Paleoindian Prehistory
11:00 Bryan Gordon; The Effect of Herd-Following on Material Culture

[12] General Session: *SOUTH AMERICAN ARCHAEOLOGY*
Room: St. Louis Ballroom G
Chairperson: Susan deFrance
Participants:
7:40 Glenn Russell; Excavations at Cerro Mayal: A Moche IV Ceramic Production Workshop in the Chicama Valley, Peru
8:00 Phyllis Pitluga; The Nazca Lines and Quadrangles: An Astronomical Model
8:20 Paul Goldstein; From Bandelier's Cemeteries to a Blackware Horizon, One Step Towards a Tiwanaku Ceramic Chronology
8:40 Karen Wise and Sonia Guillen; When is a Mummy: Chinchorro in Southern Peru
9:00 Banks Leonard; Chimu Agricultural Projects in the Chicama Valley, Peru: New Observations
9:20 Jack Rossen; Plant Remains of Nanchoc, Northern Peru: Early Cultigens or Modern Intrusions?
9:40 Susan deFrance; Spanish Colonial Adaptation to Southern Peru: Faunal Data from the Moquegua Region
10:00 Mary Glowacki; Middle Horizon Ceramics from Cuzco, New Insights on the Wari Occupation

10:20 Ann Webster; Shifting Species Abundance Patterns and the Increased Use of Camelids in the Tiwanaku Valley, Bolivia: Formative Period to Tiwanaku V
10:40 Melanie Wright; Social and Spatial Differentiation at Tiwanaku: The Evidence of the Botanical Remains
11:00 Izumi Shimada and Jo Ann Griffin; Manufacture and Use of Sumptuous Metal Objects from Huaca Loro, Peru
11:20 John Janusek; Segmentation and Change in Tiwanaku Residential Patterns

[13] General Session: *MESOAMERICAN ARCHAEOLOGY*
Room: Promenade Ballroom A
Chairperson: Elizabeth Graham
Participants:
7:40 William Fowler, Kathryn Sampeck, and Howard Earnest; The Ceramic Sequence at Tacuscalco, El Salvador
7:50 Stephen Whittington and David Reed; Preliminary Results of Analysis of Human Skeletal Remains from Iximche, Guatemala
8:00 S. J. Mazullo and C. S. Teal; Reconstructing Processes of Production and Site Formation through Mineralogic Analysis of Maya Cultural Remains, Ambergris Caye, Belize
8:10 Elizabeth Graham and David Pendergast; New Data From Ambergris Caye on Coastal Maya Production and Exchange

[14] General Session: *OLD WORLD ARCHAEOLOGY*
Room: St. Louis Ballroom A
Chairperson: Maureen Hays
Participants:
7:40 Brooks Ellwood, Karl Petruso,and Frank Harrold; Magnetic and Electrical Studies in Konispol Cave, a Neolithic Site in Southwesternmost Albania
7:50 John Dockall; Functional Variability of Pointed Tools From the Middle Paleolithic at Shanidar Cave, Iraq
8:00 James Pokines; Antler as a Raw Material: Experimentation with Replicated Lower Magdalenian Spearpoints
8:10 Maureen Hays; A Functional Analysis of the Lithic Material From Burrone Scierra I (Calabria, Italy)
8:20 Steven Mertens; Preliminary Investigations Concerning the Transition From Middle to Upper Paleolithic in Romania
8:30 Christopher Hill; Geologic Context of Acheulian Artifacts in Saharan Egypt

[15] Poster Session: *ARCHAEOLOGICAL METHOD AND THEORY*
Participants:
Joe Castorena and Leoncio Garza-Valdes; Archaeological Sample Identified as Copal (Bursera Bipinnata) by Capillary Gas Chromatography/Mass Spectrometry
Kathleen Morrison; Microscopic Charcoal and Land Use: Lake Sediments and Regional Burning
Robert Vernon; Computer-aided Visualization of Intra-site Activity Patterns
Jeffrey Yelton; Archaeology and Non-professional Education in Southwestern Missouri
Joni Manson; The Effects of War on Archaeological/ Cultural Resources and Research
Joan Schneider, Philip Wilke, and Leslie Quintero; Experimental Replication of the Production of Aboriginal Milling Implements
Katherine Moore; Cut Marks on Bone in Economic and Nutritional Context

William Johnson; Archaeological Research in Contaminated Areas: Plutonium Valley at the Nevada Test Site
Kristen Zschomler and Clark Dobbs; Promoting Public Ownership of the Past
Lori Longo-Hughston, David Meltzer, and George McMechan; Ground Penetrating Radar Investigation of Altithermal Age Site on the Southern High Plains
Stephen Nash; Cutting Data Estimation and Site History: An Exploratory Analysis
Michael Shott; Mortal Pots: On Use Life and Vessel Size in the Formation of Ceramic Assemblages
Fraser Neiman; Temporal Dynamics of Stylistic Variation Under Drift
Rosanna Ridings; Variation of Effective Temperature in Obsidian Hydration Dating
Kim Bartolotta; Characterization of Archaeological Sediments by Laboratory Techniques
Lane Beck and Diane Zorich; Optimizing Computer Foraging:Networks, Databases, and Repatriation
Colleen Beck; License to Loot
Sarah Schlanger, William Lipe, and William Robinson; An Atlas of Occupation and Abandonment Across the Northern Southwest
Mike Waters, John Giardino, and James Parrent; Geoarchaeological Investigations of St. Ann's Bay,
Jamaica:The Search for the Coulumbus Caravels and an Assessment of 1000 Years of Human Land Use 11 30 Lunch DR 42

THURSDAY AFTERNOON APRIL 15, 1993

[16] Symposium: *COMPARING CAPITALS*
Room: St. Louis Ballroom B
Organizer and Chairperson: Alice Kehoe
Participants:
1:00 Alice Kehoe; Monumentality
1:20 Linda Manzanilla; Teotihuacàn
1:40 Alan Kolata; Comparing Andean Capitals
2:00 Helaine Silverman; Monumentally Unmonumental: The Case of Cahuachi
2:20 Elena Lincoln; Independent Centers and Isolated Capitals
2:40 Charles Lincoln; Was Chichen Itza Like Rome?
3:00 Phil Wiegand and David Wilcox; Chacoan Capitals: Centers of Competing Polities
3:20 Alex Barker; Settled on Complexity: Centers and the Definition of Social Complexity in the Lower Mississippi Valley
3:40 Gloria Fenner and Patricia O'Brien; Cahokia's Boundaries and Hinterlands
4:00 Robert Hall; Cahokia, Camelot, and the Dynamics of Oral Tradition
4:20 Discussant: Christopher Chippindale

[17] Symposium: *RECENT INVESTIGATIONS ALONG THE UPPER MAIN BRANCH OF THE SUSQUEHANNA RIVER BASIN*
Room: Promenade Ballroom E
Organizer and Chairperson: Randolph Taylor
Participants:
1:00 Peter Condon; Technological Analysis of Lithic Assemblages at Two Early Woodland Sites in the Susquehanna River Valley

1:20 Dana Kollmann; Meadowood Phase Ceramics in the Central Susquehanna River Valley: An Examination of Ceramic Use and Technology
1:40 Robert Jacoby and Kathryn Parker; Functional Analysis of Early Woodland Features and Site Structure in the Central Susquehanna River Valley
2:00 Patricia Miller; A Comparative Analysis of Late Woodland Settlement Within the Susquehanna River Drainage
2:20 Brad Koldehoff; Trends in Lithic Technology in the Central Susquehanna Valley
2:40 Gary Coppock, Duane Braun, and Jonathon Pollack; Island Geomorphology Within the Main Stem Susquehanna River and its Implications for the Occurrence of Deeply Buried Archaeological Sites
3:00 Frank Vento and Harold Rollins; Genetic Stratigraphy, Climate Change and Paleosol Development Within the Susquehanna River Drainage Basin
3:20 Randolph Taylor; Correlating Archaeological Stratigraphic Data with a Genetic Stratigraphic Framework in a Dynamic River Basin: Implications for the Study of Settlement and Cultural Stratigraphy
3:40 Discussant: Joseph Baker

[18] Symposium: *THE PRE-CLOVIS PROOF FROM PENDEJO CAVE, OROGRANDE, NEW MEXICO*
Room: Promenade Ballroom A
Organizers and Chairpersons: Richard MacNeish and Donald Chrisman
Participants:
2:20 Geoffrey Cunnar; The Excavation, Stratigraphy, and Chronometrics of Pendejo Cave, New Mexico
2:40 Gary Jessop; The Contextual Evidence of the Way of Life in the Pre-Clovis Zones
3:00 Bruno Marino; Stable Isotope-based Paleoenvironmental Reconstruction at Pendejo Cave
3:20 Donald Chrisman; Pendejo Cave Pre-Clovis Worked Bone and Tools—Make No Bones About It!
3:40 Rob Bonnichsen; A 40,000-Year Old Human Worked Bison Bone
4:00 Howard Savage; Pre-Clovis Dated Human Hairs
4:20 Jamshed Mavalwala; Human Dermatoglyphics on Burned Clay From Pendejo Cave, New Mexico
4:40 Richard MacNeish; Lithic and Other Tools, a Summary of the Pendejo Data and Their Implications

[19] Invited Symposium: *RECENT CONTRIBUTIONS TO THE ARCHAEOLOGY OF NORTHERN NORTH AMERICA*
Room: Rose Garden
Organizer: Frederick West
Moderator: Moreau Maxwell
Participants:
1:00 Allen McCartney, Douglas Veltre and William Workman; Southern Alaskan Prehistory: An Overview
1:20 Robert Ackerman; Projectile Points and Microblades in Southwest Alaska
1:40 John Hoffecker, W. Roger Powers, Ted Goebel, and Nancy Bigelow; The Nenana Complex and the Peopling of the New World
2:00 Robert Shaw; State and Federal Archaeology in Alaska

2:20 Charles Holmes, David Yesner, and Kristine Crossen; Lifestyles of the First Americans: New Evidence from the Broken Mammoth Site, East-Central Alaska
2:40 David Morrison and Charles Arnold; Inuvialuit Archaeology in the Eskimo Lakes
3:00 Jean-Luc Pilon; Palaeo-Eskimo Remains from the Lower MacKenzie Valley, District of MacKenzie Northwest Territories, Canada
3:20 William Fitzhugh and Stephen Loring; Cain's Land is Labrador: Not Much Earth, But Great Archaeology
3:40 James Tuck; Historic Archaeology and Public Participation in Newfoundland and Labrador
4:00 James Helmer, Genevieve LeMoine, and Donald Hanna; Frozen in Space: Archaeological Research in the High Arctic, 1992
4:20 Discussants: Robert Ackerman, David Morrison, James Tuck, Morreau Maxwell, and Frederick West

[20] Symposium: *ANDEAN-AMAZONIAN LINKAGES IN PREHISTORY*
Room: St. Louis Ballroom A
Organizers and Chairpersons: Tamara Bray and Charles Hastings
Participants:
1:00 Mario Rivera; From the Forest to the Pacific Coast, 7000 Years Ago: The Chinchorro of Northern Chile
1:20 Clark Erickson; Prehispanic Interactions Between the Llanos de Mojos and the Altiplano of Bolivia
1:40 Charles Hastings; Ashaninka Settlement in the Upper Montana of Peru
2:00 Ronald Weber; Analysis of Historic Cotton Textiles from Eastern Peru and Comparisons with Archaeological Examples from Peru
2:20 Inge Schjellerup; Expansion of the Inca Empire into the Chachapoyas Region of Northeastern Peru
2:40 Warren Church; Evidence for Prehistoric Highland-Tropical Forest Interaction from Manachaqui Cave in the Northeastern Andes of Peru: Preliminary Report
3:00 Paulina Ledergerber-Crespo; A Preliminary Report on a Comparative Archaeological Survey in Morona-Santiago, Ecuador
3:20 Karen Bruhns and James Burton; Highland-Lowland Linkages in First Millenium BC Ecuador
3:40 Tamara Bray; Andean-Amazonian Linkages in Ecuadorian Prehistory: The Pimampiro Connection
4:00 Thomas Myers; Exchange Between the Andes and the Upper Amazon
4:20 Discussant: Patricia Lyon
4:40 Discussant: Ramiro Matos

[21] Symposium: *THE FOUNDATIONS OF SOCIAL INEQUALITY*
Room: Promenade Ballroom D
Organizers and Chairpersons: Gary Feinman and T. Douglas Price
Participants:
1:00 Gary Feinman; Introduction
1:20 Brian Hayden; Pathways to Power: Principles for Creating Socioeconomic Inequalities
1:40 Jeanne Arnold; Inequality, Marginalization, and Economics
2:00 Richard Blanton; Social Inequality Within Households
2:20 Roundtable Discussion
2:40 T. Douglas Price; Social Inequality and the Origins of Agriculture

3:00 Kenneth Ames; Pathways to Inequality in Northwestern North America
3:20 Stephen Plog; Culture Change and Social Differentiation in the American Southwest
3:40 Robert Drennan and Dale Quattrin; Social Inequality and Agricultural Resources in the Valle de la Plata, Columbia
4:00 Discussant: Antonio Gilman → 4:20 Esmée Webb
4:10 Questions and Discussion

[22] Symposium: *NEW DEVELOPMENTS IN CENTRAL MISSISSIPPI VALLEY ARCHAEOLOGY*
Room: St. Louis Ballroom G
Organizer and Chairperson: Michael O'Brien
Organizer: Robert Dunnell
Participants:
1:00 Patrick McCutcheon; Quantifying Lithic Raw Material Variability of Crowley's Ridge Gravel, Southeast Missouri and Northeast Arkansas
1:20 Thomas Holland; Bioarchaeology of Southeast Missouri
1:40 Robert Lafferty; Evolution of Settlement Structure in the New Madrid Floodway
2:00 Fran Whittaker; Lowland Adaptation During the Late Archaic in the Central Mississippi River Valley
2:20 Gregory Fox; A Critical Evaluation of the Interpretive Framework of the Mississippi Period in Southeast Missouri
2:40 Paul Kreisa; Mississippian Ceramic Chronologies in Western Kentucky: A View from Several Lower Ohio River Sites
3:00 Patrice Teltser; Non-Site Survey in the Cairo Lowland, Southeast Missouri
3:20 Kit Wesler; The Wickliffe Mounds Cemetery: Implications for Late Mississippi Period Chronology, Settlement and Mortuary Patterns in Western Kentucky
3:40 David Dye; Walls Engraved: An Elite Ware in the Central Mississippi Valley
4:00 Robert Dunnell; Langdon, a Fortified Mississippian Settlement on the Malden Plain
4:20 Carol Morrow and Mary Mc Corvie; Layers of Trail Systems in the Midwestern U.S. Archaeological, Historical and Modern Environment
4:40 Robert Mainfort and Michael Moore; 40LA92: A Late Mississippian Village in Lauderdale County, Tennessee

[23] Symposium: *TAKE ME TO YOUR LEADER: ARCHAEOLOGISTS AND CONSULTATION WITH NATIVE AMERICAN AND OTHER TRADITIONAL COMMUNITIES*
Room: Promenade Ballroom B
Organizers and Chairpersons: Lynne Sebastian and Charles Carroll
Participants:
2:00 Charles Carroll; Practical Processes and Paradoxes in Administering Federal Laws and Regulations Relating to Native Americans
2:20 Lynne Sebastian; Traditional Cultural Properties and the Section 106 Process
2:40 T. J. Ferguson, Kurt Dongoske, and Eric Polingyouma; Working Together: The Roles of Archaeology and Ethnohistory in Hopi Cultural Preservation
3:00 E. Richard Hart; Tribal Identification of Archaeology as Traditional Cultural Property
3:20 Andrew Othole and Roger Anyon; A Tribal Perspective on Cultural Resource Management Consultation
3:40 Judy Brunson; Traditional Cultural Properties: Coping Mechanisms for the Private Developer

4:00 David Cushman; When Worlds Collide: The Identification and Preservation of Traditional Cultural Properties on Indian and Non-Indian Lands
4:20 Frances Levine; Documenting Traditional Cultural Properties in Non-Indian Communities
4:40 Discussant: Thomas King

[24] Symposium: *THE OLD COURTHOUSE AND CAHOKIA: A BIT OF NOSTALGIA*
Room: St. Louis Ballroom C
Organizer and Chairperson: James Griffin
Participants:
3:40 James Griffin; The University of Michigan Program for Greater Cahokia 1950–1953
3:50 Steven Williams; The Michigan-Yale Program in Southeast Missouri 1950–1953
4:00 M. L. Fowler; The 1960's Salvage and Other Programs at Cahokia
4:10 Elizabeth Benchley; Monks Mound Manipulations
4:20 J. E. Price; Southeast Missouri Archaeology 40 Years After Williams
4:30 W.I. Woods and G.R. Halley; Recent Interpretations of Plazas and Populations
4:40 John Kelly; Cahokia Out of Range

[25] Symposium: *WHAT MEANS THIS ART?—LATE PLEISTOCENE "CREATIVE EXPLOSION" IN THE OLD WORLD*
Room: St. Louis Ballroom H
Organizers and Chairpersons: Olga Soffer and Meg Conkey
Participants:
1:00 John Parkington; The Social Context of Painting in the Western Cape: Some Recurrent Images
1:20 Andree Rosenfeld; Ideational Shifts in Late Pleistocene Australia
1:40 Iain Davidson; Power of Pleistocene Pictures
2:00 Ofer Bar-Yosef; Late Pleistocene Art in the Near East—Why So Little?
2:20 R. Dale Guthrie; The Magico-Religious Paradigm and Its Effect on the Interpretations of Paleolithic Art
2:40 Olga Soffer; The Mutability of Upper Paleolithic "Art" in Central and Eastern Europe: Patterning and Significance
3:00 Margherita Mussi and Daniela Zampetti; Carving, Painting and Engraving: Problems in the Earliest Italian Design
3:20 Jean-Philippe Rigaud; The Origins of Symbolic Expression and of Artistic Creativity: The Archaeological Data
3:40 Jean Clottes; Art of the Light and Art of the Depths
4:00 Margaret Conkey; On Defining 'Context': Interpreting the Magdalenian Art of the French Pyrenees
4:20 Discussant: Robert Whallon
4:40 Discussant: David Lewis-Williams

[26] General Session: *SOUTHWESTERN ARCHAEOLOGY*
Room: St. Louis Ballroom C
Chairperson: Timothy Kearns
Participants:
1:00 Jefferson Reid and Barbara Montgomery; Rapid Change of Formal Ritual Space in the Grasshopper Region, Arizona
1:20 Jon Czaplicki; The Central Arizona Project: Contract Archaeology and Research in Central Arizona

1:40 Edgar Huber; The Architectural Expression of Prehistoric Puebloan Social Complexity in the Upland Southwest
2:00 Timothy Kearns; Pipeline and Archaeology are Strange Teammates: El Paso Natural Gas Company Sponsored Research in Northwest New Mexico
2:20 Michael Pool; Ethnohistory of Puebloan Agriculture
2:40 Donald Thieme; A Water-Balance Simulation of the Changing Agricultural Potential of Northern Black Mesa, Arizona

[27] General Session: *SOUTH AMERICAN ARCHAEOLOGY*
Room: Promenade Ballroom F
Chairperson: Maria Masucci
Participants:
12:40 L. Borrero and Jose-Luis Lanata; Resources Exploitation in South Patagonia During the Pleistocene-Holocene Transition
1:00 Maria Masucci; Explaining Ceramic Change: Technological Analysis of Late Prehistoric Ecuadorian Ceramics
1:20 Marie Sutliff; The Production and Use of Wire in Late Pre-Hispanic Metallurgy of Southern Coastal Ecuador

[28] General Session: *ARCHAEOLOGICAL METHOD AND THEORY*
Room: Directors Room 43
Chairperson: Lynette Norr
Participants:
1:00 Carole DeRoche; Textile Ecology: The Production Process in Its Environment
1:20 Andrzej Weber; Bone Chemistry, Diagenesis, Cleaning Techniques and Interpretation: Some Methodological Considerations
1:40 Nicola Longford; A Conservator's View on How to Comply with New Federal Statutes on Curation and Conservation (36 CFR, part 79)
2:00 Susan Snow; Constructed Images and the Archaeological Record in the New World Tropics
2:20 Jonathan Mabry; Holocene Alluvial Cycles and Early Agricultural Settlements in Arid Lands: A Comparison Between the American Southwest and the Southern Levant
2:40 Paul Takac, Michael Collins, and Wulf Gose; The Archaeomagnetic Investigation of Burned Limestone Rocks: An Interpretive Technique
3:00 James Skibo and Michael Schiffer; The Clay Cooking Pot: An Exploration of Women's Technology
3:20 Leah Powell and Helen Dockall; Folk Narratives and Archaeology: Contributions of Folklore Methodology to the Analysis and Interpretation of an Historic African-American Cemetery
3:40 Bong Won Kang; An Examination of an Intermediate Socioevolutionary Type Between Chiefdoms and States
4:00 Stanley Ambrose and Lynette Norr; Relationship of Carbon Isotope Ratios of Dietary Protein and Energy to Those of Bone Collagen and Apatite
4:20 Esme'e Webb; Is Complexity a Necessary Feature of Hunter-Gatherer Socio-Economics?
4:40 Curtis McKinney: Uranium Series and ESR Dating of Tooth Enamel, Methods in Conflict: The Uranium Uptake Debate

[29] **General Session:** ***EASTERN WOODLANDS ARCHAEOLOGY***
Room: Promenade Ballroom A
Chairperson: Douglas Kellogg
Particiants:
12:40 Jeffrey Hantman and Michael Klein; Woodland Era Population and Regional Organization in the James River Valley of Central Virginia
1:00 Stuart Eldridge; Late Archaic Coastal Hunter-Gatherer Adaptation in Central Maine: A Perspective from the Stanley Site, Monhegan Island, Maine
1:20 Richard Boisvert and Anthony Costine; A Good Day at Black Rock—Resolving the Source and Distribution of So-called "Argillite" in Northern New England
1:40 Douglas Kellogg; Interpreting Site Clusters: An Example from the Maine Coast

[30] **Poster Session:** ***OLD WORLD ARCHAEOLOGY***
Participants:
Andrew Weiss; The Social Context of Large Scale Copper Production in Prehistoric Central Thailand
Barry Rolett and Min-yung Chiu; Domestic Animals in Prehistoric Polynesian Subsistence Economies
Maria Sweeney and David Addison; Current East Polynesian Chronology
Patricia Mangan; The Spatialization of Early Capitalism: A Case Study of Catalonia, Spain
Glenn Storey; The Height of Buildings in Ancient Rome: New Archaeological Data
Robert Hard and Linden Kosub; Early Bronze Age Ground Stone Tools: A Remarkable Case of Ore Processing in Central Anatolia
Alan McPherron and Richard Cowan; Mapping and Remote Sensing at a Bronze-Age "Nuragic" Settlement on Sardinia
Nancy Coinman; The Upper Paleolithic in the Southern Levant: New Data From Jordan
David Mather; Differing Perceptions of Landscape From the Mesolithic through the Roman Occupation: Palynological and Stratigraphic Evidence from the Humberhead Levels of England
Francis Harrold; Archaeological Research in Southern Albania
Alexander Applegate and Harold Hietala; Synchronic and Diachronic Interpretations of Middle Paleolithic Localities During the Last Interglacial at Bir TarFawi, Egypt
Ruth Van Dyke; Ideology and the Ancient Chinese State
Sarah Milliken; Raw Material Economy in the Late Paleolithic of South-East Italy

[31] **Poster Session:** ***LATIN AMERICAN ARCHAEOLOGY***
Participants:
Martha Jackson and Melissa Hagstrum; Ceramic Tools For Inka Metallurgy: Technical Analyses of Materials, Manufacture and Use
Persis Clarkson; Geochemical Dating Applications to Stone Features, Nazca, Peru
Thomas Barrett and Robert Santley; Formative Period Obsidian Utilization in the Tuxtlas Mountains, Veracruz, Mexico
John Gerry; Dietery Privilege Among the Classic Maya: An Isotopic Perspective
Lourdes Toscano-Hernandez, Carlos Alvarez, and Harold Starratt; Population Dynamics in the Puuc: Current Investigations at the Classic Site of Labna, Yucatan
Jefferson MacKinnon and Jeffrey Olson; Classic Period Maya Extraction of Clay Resources on the Coast of Southern Belize

THURSDAY NIGHT APRIL 15, 1993

[32] **Invited Symposium:** ***ARCHAEOLOGICAL SURVEY AND AERIAL PHOTOGRAPHY IN THE UNITED KINGDOM***
Room: St. Louis Ballroom G
Organizer: Robert Bewley
Participants:
7:00 Mark Corney; Survey and Recording of Ancient Landscapes: A British and European Perspective
7:20 Robert Bewley; Aerial Photography and Archaeological Survey in Britain
7:40 Roger Leech; From Survey to Record—Providing a National Database
8:00 Adrian Olivier; From Record to Conservation—A Regional Perspective
8:20 Ben Ferrari; Recording Archaeology in the Marine Zone

[33] **Symposium:** ***THE NATURE OF MISSISSIPPIAN TOWNS AND CENTRAL PLACES***
Room: St. Louis Ballroom H
Organizers and Chairpersons: Barry Lewis and Charles Stout
Participants:
7:00 Claudine Payne and John Scarry; Town Structure at the Edge of the Mississippian World
7:20 David Hally; The Nature of Mississippian Towns in Georgia
7:40 Gerald Schroedl; Mississippian Towns in the Eastern Tennessee Valley
8:00 Charles Stout and Barry Lewis; On the Nature of Western Kentucky Mississippian Town Composition
8:20 Jon Muller; Towns Along the Lower Ohio
8:40 Scott Demel and Robert Hall; Natural and Artificial Landscapes within the Cahokia Town Plan
9:00 Discussant: Christopher Peebles

[34] **Symposium:** ***EXPLAINING LONG-TERM CHANGES IN POSTGLACIAL FORAGING TECHNOLOGIES: OLD AND NEW WORLD PERSPECTIVES***
Room: St. Louis Ballroom A
Organizer: Bradley Vierra
Participants:
7:00 Marek Zvelebil; The Evolution of Postglacial Lithic Technology in Northern Europe
7:20 Steven Mithen; Mesolithic Technology in the Southern Hebrides
7:40 Bradley Vierra; Subsistence Diversification and Mesolithic Technology
8:00 Christopher Ellis and Jonathon Lothrop; Technological Change During the Paleoindian and Archaic Periods in Eastern North America
8:20 Marcel Kornfeld and Mary Lou Larson; Change and Continuity in Early to Mid-Holocene Northwestern Plains Technology
8:40 Robert Bettinger; Measuring Holocene Adaptive Change in the Western Great Basin
9:00 Discussant: Lawrence Straus
9:10 Discussant: Margaret Nelson

[35] **General Session:** ***CURRENT RESEARCH IN THE AMERICAN SOUTHWEST***
Room: St. Louis Ballroom B
Chairperson: Keith Kintigh
Participants:
7:00 Lynn Malinowski and Shawn Haley; Recent Evidence of the Early Archaic in the Alpine Valleys of the Wasatch Mountains of Utah

7:10 Michael McGuirt; The Recent Discovery of a Terminal Archaic to Initial Mogollon Protokiva in the Middle San Francisco River Valley, West-Central New Mexico
7:20 Sharon Hatch; A Wood Sourcing Study at the Chimney Rock Archaeological Area, Southwest Colorado
7:30 Frank Eddy and Dale Lightfoot; Air Photographic Interpretations for the Chimney Rock Archaeological Area, Colorado
7:40 Garry Cantley; Archaeology at a Rockpile Field in Central Arizona
7:50 Susan Hall; An Architectural Analysis of Cavate Dwellings in the Verde Valley, Arizona
8:00 Stephen Durand, Martin Rose, and Phillip Shelley; Techniques for Identifying Tree Source Areas, Part 2
8:10 Konnie Moeller and John Hoffecker; A Geoarchaeological Analysis of Hydropower Operation Effects on the Green River in Utah and Colorado
8:20 Rudolph Johnson, Elizabeth Ambos, and Daniel Larson; Experimental Design for Evaluation of Variables at Archaeological Sites by Geophysical Methods
8:30 Kenneth Liss; Grand Canyon Anasazi Settlement Patterns
8:40 Keith Kintigh and Andrew Duff; The Changing Face of Community: Patterns From the Zuni River Drainage

[36] General Session: *RECENT DEVELOPMENTS IN METHOD AND THEORY*
Room: Rose Garden
Chairperson: Joe Artz
Participants:
7:00 Gary Dunham; Solidarity Through Death? The Archaeology of Collective Burial Rituals
7:20 Joe Artz and E. Arthur Bettis, III; Holocene Geology as an Aid in Archaeological Survey: An Example from the Upper Mississippi Valley
7:40 Dolores Elkin; Volume Density of South American Camelids Skeletal Parts
8:00 Debora Kligmann and Cristina Bellelli; Examining the Underlying Assumptions of Refitting Studies Carried Out in Argentina
8:20 Leoncio Garza-Valdes; Biogenic Varnish on Ancient Pottery and Stone Artifacts
8:40 James Zeidler; Site Discovery and Sampling Bias in the Neotropics
9:00 Louise Senior and Barbara Mills; Use of Computerized Image Analysis in Quantifying Craft Specialization

[37] General Session: *MAYA ARCHAEOLOGY*
Room: Promenade Ballroom B
Chairperson: Michael Smyth
Participants:
7:00 Christopher Dore, Michael Smyth, and Lora Anderson; Maya Community Patterns Via "La Ruta Puuc": The 1992 Sayil Project
7:20 Christine White, Paul Healy, and Henry Schwarcz; Intensive Agriculture, Social Status, and Maya Diet at Pacbitun, Belize
7:40 Paul Healy, Jaime Awe,and Gyles Iannone; Pacbitun and Ancient Maya Slate Use
8:00 Richard Paine and David Webster; Population Growth in the Copan Valley, Honduras AD 400–800
8:20 April Sievert, Lane Beck, and Eliot Hoyt; Maya Sacrifice: More Than a Heart-Wrenching Experience
8:40 James Ambrosino; Katun History in the Classic Maya Lowlands: Evidence and Implications

9:00 Randolph Widmer; Obsidian Use-Wear Patterns and Craft Activities at the Classic Maya Site of Copan

[38] General Session: *RECENT STUDIES IN ROCK ART*
Room: St. Louis Ballroom F
Chairperson: Mavis Greer
Participants:
7:00 Roy Larick; Ethological Information in the Animal Representations of Lascaux
7:20 John Greer; Some Preliminary Observations on the Painted Rock Art of Southwestern Venezuela
7:40 Lance Trask and Garth Bawden; The Social Geography of Petroglyphs and Pictographs
8:00 Alice Tratebas; Cultural Continuity in Paleo-Indian and Archaic Petroglyphs
8:20 Mavis Greer and John Greer; Shamen in the Pictographs of the Smith River Drainage in Central Montana

[39] General Session: *ARCHAEOLOGY OF THE PACIFIC AND EAST ASIA*
Room: St. Louis Ballroom C
Chairperson: James Carucci
Participants:
7:00 David Rindos and Esmèe Webb; Modelling the Human Colonization of Empty Landmasses: The Advantages of Optimizing Extractive Maladaption
7:20 James Carucci; Noncultural Shells in Cultural Middens: Process and Interpretation
7:40 Willam Longacre, Miriam Stark and Kenneth Kvamme; You've Seen One, You've Seen 'Em All: Alternative Statistical Techniques to Measure Ceramic Standardization Applied to Four Philippine Examples
8:00 Lisa Kealhofer; Holocene Environments and Early Agriculture in Central Thailand
8:20 Barry Rolett; New Evidence For the East Polynesian Homeland: Current Research in the Marquesas
8:40 Michael Kolb; The Role of Human Predation and Extirpation of Terrestrial Avifauna in the Scope of Hawaiian Island Subsistence Practices
9:00 Sari Miller-Antonio; Lithic Variability in Upper Pleistocene Northern China

FRIDAY MORNING APRIL 16, 1993

[40] Symposium: *RECENT RESEARCH ON THE PREHISTORY OF THE DELAWARE VALLEY*
Room: St. Louis Ballroom A
Organizer and Chairperson: John Doershuk
Organizer: Christopher Bergman
Participants:
7:40 Joseph Schuldenrein; The Geomorphic Background to Prehistoric Occupation of the Central Delaware Valley
8:00 James Hatch; Changing Patterns in the Mining and Trade of "Pennsylvania Jasper"
8:20 Philip LaPorta; Structural and Stratigraphic Models Applied to the Great Valley Sequence: The Elucidation of a Prehistoric Mining District
8:40 John Cavallo; Animal Biology and Behavior as Indicators of Archaeological Site Function
9:00 Bradford Botwick and Robert Wall; Prehistoric Settlement in the Upper Delaware Valley Highlands

9:20 James Robertson and Robert Kingsley; The Lower Blacks Eddy Site and Prehistoric Settlement Systems in the Middle Delaware Valley
9:40 Jonathan Lothrop, William Barse, and Brad Koldehoff; Archaic and Early Woodland Occupations in the Lower Delaware Valley
10:00 R. Alan Mounier; An Analysis of Teardrop-Shaped Bifaces from the Woodbury Annex Site, Gloucester County, New Jersey
10:20 Chris Hummer; Defining Early Woodland in the Delaware Valley: The View from the Williamson Site, Hunterdon County, New Jersey
10:40 Christopher Bergman, John Doershuk, and David Rue; The Padula Site (36Nm15): A Multicomponent Locality in the Middle Delaware River Valley
11:00 Larry Kimball; Microwear Analysis of Late and Transitional Archaic Projectile Points from the Padula (36Nm15) Site, Pennsylvania
11:20 James Bloemker; Archaeological Research in the Delaware River Valley—A Consumer's Report Discussant: Michael Stewart

[41] Invited Symposium: *THE CURRENT STATUS OF RESEARCH IN THE AMERICAN SOUTHWEST*
Room: Promenade Ballroom E
Organizer and Chairperson: Thomas Rocek
Participants:
8:00 Jeffrey Dean; Paleoenvironmental Variability in the American Southwest During the Last 2000 Years
8:20 Bruce Huckell; Foraging for the Past: The State of Hunter-Gatherer Studies in the Southwestern United States
8:40 Thomas Rocek; Sedentism and Mobility in the Southwest
9:00 Michelle Hegmon and Stephen Plog; Regional Social Interaction in the American Southwest: Prehistoric Evidence and Issues
9:20 Suzanne Fish and Paul Fish; The Nature of Hohokam Polities
9:40 Richard Vivian; Defining a Chacoan Regional System Through Community Architecture
10:00 Stephen Lekson; Shaping the Pueblo World: The Southwest After 1150
10:20 Jane Kelley; The View From the Mexican Northwest
Audrey → 10:40 Katherine Spielmann; The Evolution of a Frontier: Plains-Pueblo Relations in the Fifteenth Century
11:00 Robert Kelly; Current Method and Theory in Great Basin Archaeology
11:20 Discussant: Linda Cordell
11:40 Discussant: William Lipe

[42] Symposium: *TRACKING POLITICAL CHANGE AND SOCIAL STRATIFICATION AT CAHOKIA*
Room: Promenade Ballroom B
Organizers and Chairpersons: Timothy Pauketat and Thomas Emerson
Participants:
8:00 Timothy Pauketat; Big Bang in the Bottom: Political Consolidation and Mississippianism at Cahokia
8:20 Rinita Dalan; Landscape Modification and the Emergent Mississippian-Mississippian Transition
8:40 Neal Lopinot; Demographic Restructuring and Political Unification in the Northern American Bottom

9:00 Patricia O'Brien; The Sociopolitical Dynamics of Tract 15B
9:20 James Collins; Cahokia Settlement and Social Structures as Viewed from the ICT-II
9:40 Lucretia Kelly; The Role of Animals at Cahokia
10:00 John Kelly; Stirling Phase Socio-Political Activity at the East St. Louis Mound Center and its Implications for Cahokia
10:20 Sissel Johannessen and Paula Cross; The Social Context of Food at Cahokia
10:40 Thomas Emerson; Cahokian Political Hegemony: Reflections from the Countryside
11:00 George Milner; The Cahokia Site in a Regional Context
11:20 Discussant: Bruce Smith
11:40 Discussant: Vernon Knight

[43] Fryxell Symposium: *GEOARCHAEOLOGICAL METHODOLOGIES FOR INTERPRETING PREHISTORIC LANDSCAPES*
Room: Promenade Ballroom D
Organizers: Edwin Hajic and E. Arthur Bettis, III
Participants:
8:40 Reid Ferring and John Humphrey; Paleoenvironmental Reconstructions Using Stable Isotope Analysis of Late Quaternary Carbonates
9:00 David Asch; Archaeological Plant Remains and Stratigraphic Interpretation
9:20 Michael Wiant; Geological Context and Investigative Strategy at Napolean Hollow
9:40 E. Arthur Bettis, III; Buried Site Potential: Determination, Evaluation, and Suggestions for Sampling 10^8 Cubic Meters
10:00 C. Russell Stafford; Applying Distributional Archaeology to the Subsurface: Some Initial Observations
10:20 Rolfe Mandel and E. Arthur Bettis, III; Recognition of the DeForest Formation in the Midwest U.S.A.: Implications for Archaeological Research
10:40 Donald Johnson; A Reevaluation of the 'O' Factor of Soil Formation in Terms of 'Dynamic Denudation': A Gaian Approach to Explaining Archaeological Stratigraphy and Site Evolution
11:00 Edwin Hajic: Holocene Landscape Evolution and the Upland Archaeological Record: Modeling and Testing
11:20 Discussant: David Benn
11:40 Discussant: James Brown

[44] Symposium: *TOWARD SENSITIVE INTERPRETATION OF CULTURAL RESOURCES IN A MULTICULTURAL SOCIETY*
Room: St. Louis Ballroom F
Organizer and Chairperson: John Jameson
Participants:
7:30 John Jameson; Introduction
7:50 Peter Fowler; Rural Pasts for a Multi-Cultural Present
8:10 Robert Pickering; Interpreting Aztec and Taiwanese Culture in a Multicultural Environment
8:30 Sannie Kenton Osborn; Fort Ross: A Cooperative Effort in the Interpretation of a Multi-Ethnic Russian-American Company Settlement
8:50 John Schelberg; Ethnicity and Land Use Practices in the Chama Valley
9:10 Charles Polzer; Spanish Mission Policy and Practice
9:30 Jonathan Leader; The Importance of Being Earnest: Cultural Cooperation in Archaeology
9:50 Ed Natay; American Indian Perspectives

10:10 Charles Reher; Public Interpretation of Western Plains Archaeological Sites: A Commentary on Native American Perspectives
10:30 Sharyn Kane and Richard Keeton; In Their Own Words: African American Life Reflected Through Oral History
10:50 Sherrill Wilson; Unearthing Colonial Black History in New York City: The Process and the Products
11:10 Flora Kaplan; "Political Correctness" and Problems of Interpreting Gender in West African Art and Archaeology
11:30 Discussant: Veletta Canouts
11:40 Discussant: Bruce Rippeteau
11:50 Discussant: Marjorie Connolly

[45] **Symposium:** ***INTERPRETING SMALL TO MEDIUM SIZED ARCHAEOFAUNAL REMAINS***
Room: St. Louis Ballroom G
Organizer: Bryan Hockett
Participants:
8:40 Rob Hoffman and Jan Simek; Preservation and Modification of Leporid Bones by the North American Bobcat (*Lynx rufus*)
9:00 Steven James; Methodological Issues Concerning Screen Size Recovery Rates and Their Effects On Archaeofaunal Interpretations
9:20 Dave Schmitt; Great Basin Taphonomy, Human Subsistence, and Taxanomic Diversity: A View From Rock Shelter, Southwestern Utah
9:40 Thomas Whyte; Prehistoric Toad-Licking in the Southern Appalachians? I Don't Think So!
10:00 Javier Simonetti and Luis Cornejo; Small Mammals as Human Prey: Spatio-Temporal Variability
10:20 Bryan Hockett; More on Recognizing Raptor Damaged Leporid Bones
10:40 Brian Shaffer; Recovery, Skeletal Representation, Context, and Ethnographic Literature: The Cultural Aspect of Gophers in the Archaeological Record
11:00 Patrick Lubinski; Fish Heads, Fish Heads: An Experiment on Differential Bone Preservation in a Salmonid Fish
11:20 Randall Preston; Taphonomic Analysis of the Small-Vertebrate Component from the Charlie Lake Cave Paleoindian Site (HbRf39), Northeastern British Columbia, Canada
11:40 Discussant: R. Lee Lyman

[46] **Symposium:** ***AFTER THE LAND BRIDGE: CLIMATE, BIOMES, AND CULTURAL INTERACTION IN NORTHEASTERN BERINGIA***
Room: Promenade Ballroom A
Organizer and Chairperson: John Lobdell
Organizer: Richard Reanier
Participants:
8:00 Michael Kunz and Richard Reanier; The Mesa Site: A Paleoindian Site in the Arctic
8:20 Richard Reanier and Michael Kunz; The Paleoindian Period in Northern Alaska
8:40 Robert Gal; Early Occupation of the Upper Noatak River Basin, Northwestern Alaska: Problems, Prospects, Prognosis
9:00 Kenneth Schoenberg; The Post-Paleoartic Interval in the Central Brooks Range
9:20 Donald Clark; Archaeology of the Batza Tèna Obsidian Source, Alaska
9:40 John Cook and Michael Kunz; Batza Tèna Obsidian: Its Identification and Distribution
10:00 Owen Mason, S. Craig Gerlach and Lisa Graumlich; Climatic Constraints on Technological Transitions in Northwestern Alaska

10:20 John Lobdell; North Alaska Pingos: Ephemeral Refugia in Prehistory
10:40 Georgeanne Reynolds; Cultural and Environmental Formation Processes: Distortion of the Archaeological Record in Northern Alaska
11:00 Curtis Wilson; Nineteeth-Century Cultural Relations on the Arctic Coast of Alaska and Northwestern Canada
11:20 Ernest Burch, Jr.; The Dihai Kutchin: Mystery People of Northern Alaska
11:40 Edwin Hall, Jr.; What, When, How, Who, and Other Arctic Mysteries

[47] **Symposium:** ***ARCHAEOLOGICAL CERAMIC INVESTIGATIONS IN MID-CONTINENTAL NORTH AMERICA***
Room: St. Louis Ballroom C
Organizers and Chairpersons: Hector Neff and Robert Hoard
Participants:
9:20 Robert Hoard; A Comparison of Strength Between Limestone-, Granite-, and Grog-Tempered Prehistoric Pottery Replicates
9:40 James Feathers; Variation and Selection in Firing Technology of Late Woodland Pottery from Southeast Missouri
10:00 James Stoltman; Ceramic Paste and Body Variability as Indices of Cultural Interaction between Cahokia and its Northern Hinterlands During the Period A.D. 1000–1200
10:20 James Cogswell; An Analysis of Shell-Tempered Pottery Replicates: Implications for Provenience Studies
10:40 Mark Lynott, James Price, and Hector Neff; Inferences About Ceramics and People in Southeast Missouri: Preliminary Results of Compositional Analysis
11:00 Michael O'Brien; Late-Period Phases and Assemblage Variation in Southeast Missouri
11:20 Discussant: Stephen Williams
11:40 Discussant: Robert Dunnell

[48] **Symposium:** ***"CHULLPA" BURIAL HOUSES AND "AYLLU" ORGANIZATION IN THE ANDES***
Room: St. Louis Ballroom B
Organizer and Chairperson: William Isbell
Participants:
9:20 William Isbell; Chullpa Mortuary Monuments: ¿Prerequisite for Ayllu Organization?
9:40 R. Tom Zuidema; Inca Treatment of the Dead
10:00 Lisbet Bengtsson; Ch'ullpas at Kachiqhata and Markaqocha, District of Ollantaytambo in Southern Peru
10:20 Juan Albarracin-Jordan; Ayllu and the Pacajes "Chullpa"
10:40 Theresa Topic and John Topic; Mortuary Structures and Burial Patterns in Huamachuco
11:00 Elisabeth Bonnier; Architecture of the Living and the Dead in Tantamayo, Peru
11:20 Daniel Sandweiss; Hide or Go See: Change and Continuity in the Lambayeque Valley Burial Tradition
11:40 Discussant: Charles Stanish

[49] **Symposium:** ***NEW PERSPECTIVES ON THE GULF COAST OF MESOAMERICA***
Room: Promenade Ballroom F
Organizer and Chairperson: Barbara Stark
Organizer: Philip Arnold III
Participants:
9:20 Christopher Pool; Excavations of Late Formative Houselots at Bezoapan, Veracruz

9:40 David Grove; Upland Olmec: Rethinking Site and Resource Distribution in the Olmec Realm
10:00 Robert Santley and Philip Arnold III; Formative Period Settlement Patterns in the Tuxtlas Mountains, Veracruz, Mexico
10:20 Christopher von Nagy; The Pajonal Project: Recent Archaeological Investigations in the Ahualulcos Region of Tabasco
10:40 Barbara Stark; Stylistic Zones and Political Geography in Ancient Veracruz
11:00 Annick Daneels; Settlement Pattern in the Lower Jamapa-Cotaxtla Basin, Central Veracruz, Mexico
11:20 L. Antonio Curet, Barbara Stark, and Sergio Vasquez; Interpretations of Postclassic Period Changes in South Central Veracruz, Mexico
11:40 Discussant: Robert Drennan

[50] General Session: *SOUTH AMERICAN RESEARCH*
Room: Promenade Ballroom F
Chairperson: William Middleton
Participants:
8:00 Ran Boytner and Mathilde Temme; Textile Impression from Potushio, Southern Ecuador: Cultural Continuity?
8:10 Heidi Lennstrom; Preceramic Plant Remains from the Far South Coast of Peru
8:20 William Middleton; The Identification of Prehispanic Coca Consumption Through Opal Phytolith Analysis of Dental Calculus

[51] General Session: *RESEARCH METHODS IN ARCHAEOLOGY*
Room: St. Louis Ballroom B
Chairperson: Theresa Woltanski
Participants:
8:10 Karen Harry and Mark Slaughter; Experimenting with Lithic Raw Materials: How Accurate Are Inferences Derived from Flake Completeness Categories?
8:20 Theresa Woltanski; Experimentation and Analysis of Heat-Altered Bone
8:30 D. Bruce Dickson; An Ethnoarchaeological Site Survey of Dry Rockshelters Formerly Occupied by Mukogodo Maasai Hunter-Gatherers of Laikipia District, Kenya, East Africa
8:40 Jennifer Bishop and Marie Selvaggio; The Effects of Hammerstone and Anvil Material on Percussion Mark Morphology

[52] General Session: *OHIO VALLEY ARCHAEOLOGY*
Room: St. Louis Ballroom C
Chairperson: Richard Yerkes
Participants:
7:40 Christopher Hays; Adena Settlement and Mortuary Ritual in the Upper Scioto Valley
8:00 Frank Cowan; Hopewell 'Transaction Centers' Revisited: The Mound House Case
8:20 Christine Davis; A Unique 17th Century Settlement Pattern and Exchange Network in Western Pennsylvania: The Sony Site
8:40 Richard Yerkes; The Production and Exchange of Hopewell Bifaces and Bladelets: New Evidence From the Flint Ridge Quarries, Ohio

[53] General Session: *MESOAMERICAN ARCHAEOLOGY*
Room: St. Louis Ballroom H
Chairperson: Payson Sheets
Participants:
7:40 Mark Brodbeck; The Economic Value of Prismatic Blades and the Social Importance of Lithic Economies: A Case Study from La Mixtequilla, Veracruz, Mexico

8:00 Ruben Mendoza; The Oloman Tyranny: Cartel Formation and the Archaeology of Conquest Interaction
8:20 Ricardo Vazquez; Anaerobic Preservation in a Coastal Cemetery Site, Nicoya Gulf, Costa Rica
8:40 Julia Hendon and Rosemary Joyce; Questioning "Complexity" and "Periphery": Archaeology in Yoro, Honduras
9:00 Jim Aimers and Jaime Awe; An Early Circular Platform from Cahal Pech, Belize
9:20 Stephen Houston and David Stuart; Mutiple Voices in Maya Writing: Evidence For First- and Second-Person References
9:40 Christopher Beekman and Stephen Houston; Political Boundaries in Ancient Mesoamerica
10:00 Marilyn Beaudry-Corbett; Hierarchical Community Organization, Late Formative Pacific Coastal Guatemala
10:20 Brandon Lewis; Late Classic Maya Economic Integration: Perspectives from the Lithic Production Systems at Rio Azul, Guatemala, and Rio Bravo, Belize
10:40 Payson Sheets; Growing, Processing, and Using Maguey (*Agave*)in the Ceren Household, El Salvador
11:00 Lenore Santone; Intraregional Exchange Systems: The Ancient Maya Lithic Economy of Northern Belize
11:20 Hattula Moholy-Nagy; Debitage Disposal and Artifact Production at Tikal, Guatemala

[54] Poster Session: *ARCHAEOLOGY OF THE AMERICAN SOUTHWEST*
Participants:
John Hohman, Diane White, and Christopher Adams; Architectural Variability at the Site of Casa Malpais, Arizona
Mark Elson and James Gunderson; Procurement, Production, and Distribution of Argillite Artifacts: A Preliminary Examination of Southwestern Interaction Systems
James Heidke; Applied Quantitative Ceramic Petrology, An Example From Southeastern Arizona
Cynthia Herhahn; 14th Century Agricultural Diversity in the Northern Rio Grande Valley, New Mexico
Laurie Victor and Timothy Baugh; Obsidian from New Mexico Pueblos: Implications for Protohistoric Plains-Pueblo Interaction
Susan Lintz-Dohr and Selma Morlay; Demographic, Climatic, and Settlement Pattern Change Among the Western Anasazi Between AD 500–1250: A New Assessment of Survey Data
Robbie Brewington; Stylistic Variability in Mimbres Sites: Social Segregation and Gender-Linked Crafts
Helen Danzeiser-Dockall; Sexual Dimorphism in Prehistoric and Historic Indians from Texas
John Hufnagle; The Relationship of Ceramic Morphology to Settlement Population in the Northern Rio Grande A.D. 1000–1250
James Bayman and Sara Chavarria; Shell Ornament Production and Distribution in the Marana Platform Mound Community
Amber Johnson; Chupadero and Tabira—Function vs. Style: A Study of Black-on-White Jars From Gran Quivira Pueblo, New Mexico
Ann Deegan; Kayenta Anasazi Fibrous Sandal Textile Construction Techniques
Mark Hovezak; Construction Timber Economics at Sand Canyon Pueblo, Southwestern Colorado

Martha Graham; Objects of Inquiry: Material Expressions of a Century of Rara'muri Culture Change and Persistence
Neal Crozier and Garry Cantley; Branch of Roads Archaeology Program. Bureau of Indian Affairs, Phoenix Area Office
Peter Bullock; Anasazi Political Organization

FRIDAY AFTERNOON APRIL 16, 1993

[55] **Symposium:** ***LATE QUATERNARY PALEOENVIRONMENTS AND HUMAN SUBSISTENCE IN THE CENTRAL MISSISSIPPI RIVER VALLEY***
Room: St. Louis Ballroom B
Organizers and Chairpersons: Russell Graham and Bonnie Styles
Participants:
1:00 Edwin Hajic; Late Quaternary Geomorphic Change in the Central Mississippi River Valley
1:20 Eric Grimm; Late Quaternary Vegetation and Climate Change in the Central Mississippi River Valley
1:40 Russell Graham; Evolution of Mammal Communities in the Central Mississippi River Valley and Pleistocene/Holocene Human Subsistence Strategies
2:00 James Theler; Response of Gastropods (Snails) to Paleoenvironmental Fluctuations and Implications for Understanding Human Subsistence
2:20 Robert Warren; Late Quaternary Freshwater Mussel Populations in the Central Mississippi River Valley
2:40 Sissel Johannessen; The Changing Use of Plants in Human Subsistence Strategies
3:00 Bonnie Styles; The Changing Use of Fauna in Human Subsistence Strategies

[56] **Symposium:** ***THE ETHNOARCHAEOLOGY OF SETTLEMENT PATTERN: PASTORAL SOCIETIES***
Room: St. Louis Ballroom F
Organizer and Chairperson: Claudia Chang
Organizer: Jacqueline Rossignol
Participants:
1:00 Claudia Chang; New Directions in Settlement Pattern Studies; An Ethnoarchaeological Perspective
1:20 Lawrence Todd; Ethno and Other Archaeologies: Observational Scales and Interpretative Potentials
1:40 Alexandra Roberts; Archaeological Correlates of Restricted Mobility Among Navajo Families in the Wupatki Basin, Arizona
2:00 LuAnn Wandsnider; Nomadic Sheep-Goat Pastoralism and Archaeological Landscapes
2:20 Jacqueline Rossignol; The Ecology of Agro-Pastoralism, Soils, and the Archaeological Record
2:40 Steve Tomka; "Up and Down We Move...": Factors Conditioning Agro-pastoral Settlement Organization in Mountainous Settings
3:00 Axel Nielsen; Sorting Out Sources of Variability in Settlement Location: A Case Study Among Pastoralists in the South-Central Andes
3:20 Discussant: Robert Hitchcock

[57] **Symposium:** ***ANCESTORS, AGRICULTURE, AND THE ARCHAEOLOGY OF PLACE AT K'AXOB, BELIZE***
Room: St. Louis Ballroom G
Organizer and Chairperson: Patricia McAnany
Organizer: Mary Lee Angelini
Participants:
1:00 Elizabeth Platt; Ecological Transformation at K'axob in the Middle and Late Formative
1:20 Mary Lee Angelini; Clay Sourcing at K'axob, Belize
1:40 Sandra López Varela; The K'axob Ceramics: A Reappraisal of Ceramic Analysis and Classification in the Belize Region
2:00 Patricia McAnany; The Role of the Ancestors in Architectural Transformations at K'axob, Belize
2:20 Valerie McCormack, Hope Henderson, and Francisco Estrada-Belli; Documenting the Elusive Protoclassic and Early Classic Settlement: Stratigraphic Evidence from K'axob
2:40 Marilyn Masson; K'axob Caches and Comparative Contexts: Models of Ritual Accompanying Preclassic Dedicatory Events
3:00 Annabeth Headrick; Iconographic Expression in the Agrarian Context of K'axob, Belize
3:20 Carla Lee and Rebecca Storey; Osteology and Paleopathology of the K'axob Skeletal Sample
3:40 Eric Poeschla; Ancient DNA from Formative Maya Burials at K'axob
4:00 Discussant: David Freidel

[58] **Invited Symposium:** ***ARCHAEOLOGY AND PREHISTORY OF WESTERN NORTH AMERICA***
Room: Promenade Ballroom E
Organizer and Chairperson: Claude Warren
Participants:
1:00 Roy Carlson; Evolution of the Northeast Coast Cultural System
1:20 Kenneth Ames; Paleoethnoarchaeology on the Southern Northwest Coast
1:40 Jon Erlandson; 11,000 Years of Human Adaptations to the California Coast
2:00 James Chatters; Bison, Salmon, Productivity, and the Development of Southern Plateau Settlement Systems
2:20 Jack Broughton and Frank Bayham; Resource Intensification in Northern California: Patterns in Archaeological Vertebrate Evidence
2:40 Joel Janetski; Shifting Hunter-Gatherer Strategies in the Eastern Great Basin
3:00 Mark Sutton and Robert Yohe II; Mid-Holocene Settlement and Subsistence Adaptations in the Mojave Desert
3:20 Jerry Schaeffer; The Prehistory of the Colorado Desert: Recent Approaches and Discoveries
3:40 Claude Warren; Change and Continuity in the Early Archaic of the San Diego Coast
4:00 Discussant: Robert Bettinger

[59] **Symposium:** ***EXPLORING CULTURAL PROCESSES IN COMPLEX MIDDLE-RANGE SOCIETIES: OHIO HOPEWELL AND THE NORTHERN AND NORTHWESTERN EUROPEAN BRONZE AGE***
Room: Promenade Ballroom B
Organizers and Chairpersons: Karin Jones and Tristine Smart
Participants:
1:00 Janet Levy; Animals Good to Think: Bronze Age Scandinavia and Ohio Hopewell

1:20 A. Martin Byers; The Pursuit of Reputation and the Archaeology of the Heroic: The Hopewell as Historic Episode
1:40 Tristine Smart; The Contexts of Prestige Symbolling: Some Cross-Cultural Lessons from Ohio Hopewell and the Northwestern European Bronze Age
2:00 Lyle Konigsberg and Susan Frankenberg; Missing Skulls and Missing Data in Ohio Hopewell
2:20 Karin Jones; Rank Amateurs: Different Strategies in Marking the Development of Social Complexity
2:40 N'omi Greber; Considering Some Possible Ecological, Social, and Political Boundaries Among the Ohio Hopewell Peoples
3:00 James Brown; Feasts and Fairs: Thoughts on the Economics of Hopewellian Interaction
3:20 Thomas Larsson; Vistad—An Example of Regional Politics and Exchange Systems in Northern Europe 900–500 B.C.
3:40 Timothy Champion; Food and Metal: Social Complexity in Southeastern England 1000–700 B.C.
4:00 Discussant: John O'Shea
4:20 Discussant: James Griffin

[60] Invited Symposium: *25 YEARS OF VIEWING LOWLAND SOUTH AMERICAN PREHISTORY: RETROSPECT AND PROSPECT*
Room: Promenade Ballroom A
Organizer and Chairperson: Peter Roe
Participants:
1:00 Warren DeBoer, Leon Doyon, and Arthur Rostoker; Problems and Prospects in Ecuadorian Prehistory
1:20 Patricia Hansell and Anthony Ranere; Settlement Studies in Lower Central America: Past Trends and Future Directions
1:40 Michael Heckenberger; Amazonian Ethnoarchaeology: Archaeology, History, and the Ethnographic Present
2:00 Jose Oliver; What Have We Accomplished: Where Are We Going? Trends and Perspectives in Greater Antillean Archaeology (1970's–1990's)
2:20 Augusto Oyuela-Caycedo; From Collecting to Food Production in Northern Columbia
2:40 Peter Roe; Advances in the Study of Lowland South American and Caribbean Rock Art
3:00 Anna Roosevelt; The Archaeology of the Lower Amazon: The Last 25 Years
3:20 Michael Snarskis; The Land Between: Costa Rican Archaeology During the Last 25 Years
3:40 Erika Wagner; Recent Research in Eastern Venezuela, the Llanos and the Piedmont Area
4:00 Samuel Wilson; 25 Years of Archaeological and Ethnohistorical Research in the Lesser Antilles
4:20 Discussant: J. Scott Raymond

[61] Symposium: *FRONTIERS IN PHYTOLITH RESEARCH*
Room: St. Louis Ballroom C
Organizers and Chairpersons: Irwin Rovner and Elizabeth Lawlor
Participants:
1:00 Christine Prior and Susan Mulholland; AMS Dating of Phytoliths: The Bearskin Point Example

1:20 Lisa Kealhofer; Phytoliths in Southeast Asian Flora
1:40 Terry Ball; Phytolith Morphometrics: The Use of Image Analysis for Morphologic and Systematic Study of Wheat Phtyoliths
2:00 Judith Zurita-Noguera; Phytoliths in Mexican Flora
2:20 Elizabeth Lawlor; The Formation of Phytolith (Plant Silica) Deposits: Cultural and Environmental Processes in California's Eastern Mojave Desert
2:40 Linda Scott Cummings; Phytoliths as Indicators of Subsistence: Coprolites and Features
3:00 William Middleton; The Use of Opal Phytolith Analysis in Paleoecological Reconstruction on St. Catherine's Island, Georgia
3:20 Alix Powers-Jones; Phytoliths, Dirt and Debris: The Development of a "Parallel Taxonomy"
3:40 Irwin Rovner; Getting Down to Specifics: Phytolith Analysis in Historic Period Sites

[62] Symposium: *RECENT RESEARCH ON THE INCA*
Room: St. Louis Ballroom A
Organizers and Chairpersons: Daniel Sandweiss and Brian Bauer
Participants:
1:00 Colin McEwan; The Limits of Empire: The Inca Occupation of Coastal Ecuador
1:20 Frances Hayashida; Northern Lambayeque Under Inka Rule
1:40 David Wilson; Assessing the Inca Presence on the Peruvian North Coast: Moche to Casma Valleys
2:00 John Topic; Ethnogenesis in Huamachuco
2:20 Anne Marie Hocquenghem; Un Camino Inca entre Tumbes y Morope: El Posible itinerario de Pizarro en el extreme norte del Peru
2:40 Katharina Schreiber; Strategies of Inka Control in the Nasca Region of Peru
3:00 Monica Barnes; Inca Soras
3:20 Brian Bauer and Wilton Orosco; The Shrines of Anta
3:40 Charles Stanish; The Inca Occupation of the Juli-Pomata Region, Lake Titicaca, Peru
4:00 Discussant: Tom Dillehay

[63] Symposium: *ARCHAEOLOGY IN MUSEUMS: DYNAMIC INTERACTIONS AND MUTUAL CONSTRAINTS*
Room: Promenade Ballroom D
Organizer and Chairperson: Eleanor King
Organizer: Elin Danien
Participants:
1:00 Elizabeth Tooker; American Antrhopology in the Formative Years: The Case of the New York State Museum
1:20 Don Fowler and Nancy Parezo; Mayans in Chicago, Moundbuilders in Buffalo; Archaeology at World's Fairs, 1876–1915
1:40 Donald McVicker; Museums, Collections, and World's Fairs
2:00 Douglas Givens; The Bowditch Chair, Mayan Archaeology, and the Peabody Museum of Archaeology and Ethnology: Philanthropy and Institutional History in the Development of Americanist Archaeology
2:20 Chris Downum; Museums and the Influence of Native Americans on Southwestern Archaeology
2:40 BREAK

3:00 Mark McConaughy; Effects of Cultural Resource Management on Collection Strategies at the Section of Archaeology, the State Museum of Pennsylvania
3:20 David Pendergast; "I wonder where museums would be today...": Archaeology at the Royal Ontario Museum, 1913–1993
3:40 Elin Danien; From Tlingits in Plains Clothing to Smokescreens on TV: Public Programming at Penn's University Museum
4:00 John Cotter; Archaeology and National Icons
4:20 Discussant: Stephen Williams
4:40 Discussant: Valerie Pinsky

[64] General Session: *OLD WORLD ARCHAEOLOGY*
Room: Promenade Ballroom F
Chairperson: Mike Rosenburg
Participants:
1:00 Ian Kuijt; Excavations at 'Iraq ed-Dubb, Jordan: Implications for Settlement and Subsistence Practices of the Early Neolithic of the Levant
1:20 Lawrence Strauss, Marcel Otte, and Paul Haesaerts; Upper Pleistocene Hominid Adaptations in Southern Belgium
1:40 Walter Klippel and Lynn Snyder; Greek Dark Age Subsistence in East Crete: Late Bronze Age and Early Iron Age Hunting and Animal Husbandry at Kavousi
2:00 Scott MacEachern; Iron Age and Recent Settlement Patterning in Northern Cameroon
2:20 Robert Gargett; The Spatial Analysis of Hominid Faunal Accumulations: The View From Pod hradem, a Cave Bear (*Ursus spelaeus*) Locality in Czechoslovakia
2:40 Fredrik Hiebert and Katherine Moore; Early Non-Urban States of Central Asia
3:00 James Potter; Levantine Mousterian Assemblage Variability: A View From the Wadi el Hasa
3:20 Ted Goebel; Characterizing the Siberian Middle-Upper Paleolithic Transition
3:40 James Adovasio, Olga Soffer, and Dennis Dirkmaat; Trash Pits and Middens: Another Look at Differential Site-Use Patterns at Mezhirich
4:00 Robert Hard; The Adoption of Agricultural Economies in Semiarid Environments
4:20 P. Nick Karulias and Mark Dann; Medieval Settlement Patterns in the Korinthia, Greece: The Evidence from Agios Vasilios
4:40 Alan Simmons and Renee Corona; The Neolithic of Western Cyprus—Test Investigations at Kholetria Ortos

[65] General Session: *OLD WORLD PALEOLITHIC ARCHAEOLOGY*
Room: St. Louis Ballroom B
Chairperson: Gail Peterkin
Participants:
3:40 Marcia-Anne Dobres; Social Agency and the Dynamics of Magdalenian Bone and Antler Technology
4:00 Paul Thacker; Why Stop Here? Inter-site Patterning in the Upper Paleolithic of Portugal
4:20 Gail Peterkin; Organic Hunting Technology in the French Upper Paleolithic
4:40 Brooke Blades; Lithic Utilization and the Organization of Mobility in Early Upper Paleolithic Moravia

[66] General Session: *MESOAMERICAN ARCHAEOLOGY*
Room: St. Louis Ballroom F
Chairperson: Kate Howe
Participants:
4:00 Kate Howe, Terry Stocker, and George Dodge, Sr.; A Reconsideration of the Triloral Element in Mesoamerica: Data Survey, Continuing Interpretations and Suggestions for Future Research
4:20 Susan Kepecs, Sylviane Boucher,and Agustin Castillo; Chichen Itza: A World Systems Perspective
4:40 Frederick Bove; Objectives and Preliminary Results of the Los Chatos-Manantial Project, Escuintla, Guatemala

[67] General Session: *SOUTHEASTERN UNITED STATES*
Room: St. Louis Ballroom H
Chairperson: Tristram Kidder
Participants:
1:00 Clark Dobbs; A Pilot Study of High Precision Radiocarbon Dating at the Red Wing Locality
1:20 Karl Lorenz; Big Men, Tribal and Paramount Chiefs: Sociopolitical Variation in the Late Prehistoric Southeast
1:40 Dennis Jones; The Iberville River: A Natural Intracoastal Waterway on the Central Gulf Coast
2:00 H. Edwin Jackson, Douglas Sims, and Angele Montana; Longterm Trends in Culture and Adaptation on the North-Central Gulf Coast: The Diamondhead Shell Midden, Hancock County, Missouri
2:20 Joe Saunders and Thurman Allen; Frenchman's Bend: An Archaic Mound Complex in Northeast Louisiana
2:40 Tristram Kidder; The Evolution of Chiefdoms in the Lower Mississippi Valley
3:00 William Taylor; Dietary Signals In Prehistoric and Historic Indian Skeletal Populations from the Apalachee Province of Northern Florida
3:20 Susan Wurtzberg; Chitimacha Archaeology: Unlocking the Past

[68] Poster Session: *ARCHAEOLOGY OF THE IROQUOIS PIPELINE*
Organizer: Daniel Cassedy
Participants:
Patrick Garrow, Daniel Cassedy, and Paul Webb; Ain't it a Gas? Archaeology of the Iroquois Pipeline
Daniel Cassedy, Paul Webb, and Tracy Millis; New Data on Maize Horticulture in New York and Southern New England
Tracy Millis; Native American Subsistence Patterns in the Lower Housatonic River Valley
Paul Webb; Recent Investigations Along the Roeliff Jansen Kill
Joel Jones; Excavation of Deeply Buried Archaic Components on the Mohawk River
Heather Millis; The Late Woodland to Historic Periods at Three Sites in the Lower Housatonic River Valley of Western Connecticut
Charles Cobb; Chert Procurement Strategies in the Central Hudson Valley, New York
Ann Dowd; A Normanskill Projectile Point Reduction Sequence
J. Sanderson Stevens; Archaeological Data Recovery at the Waterfall Site (191-5-1), Athens, New York
Henry Holt; Excavations at the Wappinger Creek Site (230-3-1), Dutchess County, New York

[69] **Poster Session:** ***U.S. FOREST SERVICE HERITAGE RESOURCE PROGRAM***
Organizers: Ann Cramer and Sandra Forney
Participants:
Ann Cramer; Wayne National Forest Heritage Resource Program
Richard Newton and Mike Andrews; Integrated CRM and Public Archaeology: An Example from the Rocky Mountain Front
Richard Kandare; Ecosystems Management on the Allegheny National Forest, Pennsylvania
Daniel Haas; The Great Salt Spring Exhibit
Joseph Tainter; A Cultural Resources Program for the Monts Mandingues Forest, Mali, West Africa

BUSINESS MEETING 5:30 PM D (2nd Fl)

SATURDAY MORNING APRIL 17, 1993

[70] **Symposium:** ***HOLOCENE ENVIRONMENTAL TRANSFORMATIONS IN OCEANIA: MICROCOSMS OF "GLOBAL CHANGE"***
Room: St. Louis Ballroom D
Organizer and Chairperson: Patrick Kirch
Participants:

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8:00 Patrick Kirch; Human Impacts in Isolated Island Ecosystems: The Mangaia Model
8:20 Joanna Ellison; Stratigraphic and Pollen Records of Forest Clearance and Soil Erosion by Early Settlers of Mangaia, Cook Islands
8:40 David Steadman; Stratigraphy and Chronology of Avian Extinction in Eastern Polynesia
9:00 Jonathan Hather; Plant Remains from Polynesia: An Interpretation of Past Diet and Environment
9:20 Virginia Butler; The Effects of Prehistoric Human Predation and Habitat Alteration on Fish Populations in Mangaia, Cook Islands, Polynesia
9:40 Pia Anderson and Susan Anton; Human Bone Modification?: An Island Example and Its Implications
10:00 Julie Endicott; Households in Polynesian Prehistory: Social Dimensions of Environmental Change
10:20 Marshall Weisler; Inter-Island Exchange and the Settlement of Tropical Polynesia
10:40 Melinda Allen and Kevin Johnson; Patterns of Interaction in the Southern Cook Islands
11:00 Discussant: Roger Green
11:20 Discussant: Terry Hunt

[71] **Symposium:** ***SOCIAL PERSPECTIVES ON EAST AND SOUTHEAST ASIAN PREHISTORY***
Room: Directors Room 46
Organizer: Elisabeth Bacus
Participants:
8:00 Yun Lee; Spatial Expression of Social Organization: A Case Study of a Yangshao Village Community
8:20 Seung-Og Kim; Burials, Pigs and Political Prestige
8:40 Li Liu; Development of Ritual Activities in Neolithic North China
9:00 Anne Underhill; The Role of Pottery Vessels in Mortuary Ritual During the Late Neolithic Period of China
9:20 Sarah Nelson; Hongshan—An Early Complex Society in China

9:40 Laura Junker; The Development of Centralized Craft Production Systems in A.D. 0–1500 Philippine Chiefdoms
10:00 Elisabeth Bacus; The Context of Interaction Among Late Prehistoric Chiefdoms in the Central Philippines
10:20 David Welch; Moated Sites and Late Prehistoric Social Change in Northeast Thailand
10:40 Karen Mudar; Secondary State Formation on the Central Plain of Thailand
11:00 Discussant: Richard Pearson
11:20 Discussant: Karl Hutterer

[72] **Invited Symposium:** ***ARCHAEOLOGICAL SCIENCE: PAST ACHIEVEMENTS/FUTURE DIRECTIONS***
Room: Promenade Ballroom A
Organizers: R. E. Taylor, James Burton and Rob Sternburg
Chairpersons: Rob Sternberg and James Burton
Participants:
8:00 R. E. Taylor; Introductory Comments
8:20 John Weymouth; Magnetic Prospection as a Non-Destructive Tool for Archaeological Site Evaluation
8:40 Rinita Dalan; You Can't Resist Them: Electrical and Electromagnetic Surveys
9:00 W. Frederick Limp; Viewing the Landscapes of the Past Through the Eyes of the Future
9:20 Michael R. Waters; The Role of Geoarchaeology in Archaeological Research
9:40 Susan Mulholland; Phytolith Analysis in Archaeology and Paleoecology
10:00 M. Steven Shackley; Gamma Rays, X-Rays, Stone Tools, and the "Sourcing" Myth: Are We Missing the Point?
10:20 James Skibo and Michael Deal; Food Residue and Pottery Function: A Critical Assessment
10:40 T. Douglas Price; Advances in Archaeological Bone Chemistry
11:00 Arleyn Simon; What Archaeometry Has or Has Not Done for Archaeological Ceramic Studies
11:20 Jeffrey Dean; Recent Advances in Archaeological Dendrochronology
11:40 R. E. Taylor; Radiocarbon Dating: Past and Future Revolutions

[73] **Invited Symposium:** ***INTERREGIONAL PROCESSES AND INTERPRETATIVE MODELS IN THE SOUTHERN CONE OF SOUTH AMERICA***
Room: Rose Garden
Organizer and Chairperson: Tom Dillehay
Participants:
9:00 Alan Kolata; Tiwanaku: Origins, Impact, Legacy
9:20 Donald Brockington and David Pereira; Recent Research in Central, Southern and Tropical Bolivia
9:40 Ana Maria Lorandi and Terrance D'Altroy; Advances in Inka Research in the Southern Andes
10:00 Josè Pèrez-Gollàn; Ideology and Complex Societies in Northwest Argentina
10:20 Galogero Santoro; Complex Societies in the Pacific Valleys of the South-Central Andes
10:40 Tom Dillehay and Josè Berenguer; Zonal Complementarity and Other Socio-Economic Strategies in the Southern Andes: A Critical Review

11:00 Elizabeth Pintar; Hunter-Gatherers in Northwest Argentina: New Perspectives on Subsistence, Settlement, and Mobility
11:20 Mario Rivera; Maritime Adaptations in the South-Central Andes: Archaeological Contributions
11:40 Josè Lanata; Current Perspectives on the Evolution of Human Adaptation in Southern South America

[74] Sponsored Forum: *IS THERE A FUTURE IN ARCHAEOLOGY? (Student Affairs Committee)*
Room: Promenade Ballroom D
Organizer and Chairperson: Paul Takac
Participants:
8:00 Paul Takac; Introduction
Richard Ford
Judith Bense
Francis McManamon
Sharon Urban
Michael Collins
12:00

[75] Symposium: *RECENT DEVELOPMENTS IN THE ARCHAEOLOGY OF THE BELIZE VALLEY*
Room: Directors Room 26
Organizers and Chairpersons: James Garber and Jamie Awe
Participants:
8:00 Lisa Lucero; Economic and Wealth Variation in Late Classic Maya Communities: Ceramic Analysis from the Belize River Area
8:20 Jaimie Awe; The Formative Prehistory of the Belize Valley: Recent Evidence From Cahal Pech
8:40 Richard Leventhal, Thomas Jamison, and Lisa LeCount; Xunantunich: The Terminal Late Classic in the Belize River Valley
9:00 James Garber, David Driver, and Lauren Sullivan; Medium Sized Ceremonial Centers in the Belize Valley: The Blackman Eddy Example
9:20 Arlen Chase; Polities, Politics, and Social Dynamics: The Belize Valley and Caracol
9:40 Jason Yaeger and Wendy Ashmore; Xunantunich at the End of the Classic: Dynamics of Settlement in a Time of Crisis
10:00 Gyles Iannone; "Minor Centers" and Ancient Maya Settlement: Current Research in the Periphery of Cahal Pech, Cayo, Belize
10:20 James Conlon; The Evolution of the Bedran Group: A Classic Period Settlement Cluster at Baking Pot
10:40 Terry Powis; Special Function Structures Within Peripheral Groups in the Belize Valley: An Example from the Bedran Group at Baking Pot
11:00 Anabel Ford; Organization of Domestic Activities in the Maya Area: The Initial Results of Intensive Excavations in the Belize River Area
11:20 Scott Fedick; Ancient Maya Agricultural Terracing: Predictive Modeling and Initial Field Verification
11:40 Discussant: Dianne Chase

[76] Symposium: *THE ETHNOARCHAEOLOGY OF SETTLEMENT PATTERN: AGRICULTURAL SOCIETIES*
Room: Promenade Ballroom B
Organizer and Chairperson: Jacqueline Rossignol
Organizer: Claudia Chang
Participants:
8:40 Thomas Killion; A Question of Scale: Household, Community, and Ethnoarchaeological Research in Mesoamerica
9:00 Joyce White; Indigenous Landscape Classification and the Development of Early Rice Agriculture in Thailand
9:20 Tony Wilkinson; Land Use Zones and Settlement Size in the Jazira Region of Turkey, Syria, and Iraq
9:40 Michael Smyth; Letting the Present Serve the Past: The Dynamics of an Ancient Maya Community
10:00 Glen Stone; What, If Anything, Is Settlement Ecology?
10:20 Ronald Kneebone; Chaotic Thermodynamics and Household Spatial Structure
10:40 Polly Wiessner; The Introduction of the Sweet Potato and Its Impact on Settlement Patterns and Exchange Among the Enga of Highland Papua New Guinea
11:00 Hamish Forbes; Settlement Patterns in the Methana Peninsula, Greece: Archaeological Theory and Ethnographic Reality
11:20 Rani Alexander; The Political Landscape and Settlement Archaeology in Colonial Period Yaxcaba Parish, Yucatan, Mexico
11:40 Discussant: Albert Ammerman

[77] Symposium: *TRADE AND SETTLEMENT GROWTH IN EARLY EUROPE*
Room: Directors Room 29
Organizer and Chairperson: Peter Wells
Participants:
9:40 Bettina Arnold; In Vino Veritas: Perishable Exotica in Early Iron Age Trade Between the West Hallstat Zone and the Mediterranean
10:00 Matthew Murray; The Rural Context of Regional Centers: Local Trade and Interaction During the Late Iron Age
10:20 Peter Wells; Trade and Growth of Large Communities in Late Iron Age Europe
10:40 Stephen Dyson; Pottery and Progress: The Roman Ceramic Industry and Settlement Growth
11:00 Henrik Jansen; Trade, Marketplaces, and Settlement Growth in Denmark, AD 200–1200
11:20 David Griffiths; Trade, Territories and Power in Western Britain and Ireland, AD 400–1000
11:40 John Kudlick; Fishing, Seasonal Markets, and Urban Evolution in Coastal Sweden, AD 1100–1500

[78] Symposium: *THIRD MILLENNIUM COLLAPSE IN WEST ASIA: CAUSES AND CONSEQUENCES*
Room: Promenade Ballroom F
Organizer and Chairperson: Harvey Weiss
Participants:
9:40 Harvey Weiss; Abrupt Climatic Change and Mesopotamian Collapse
10:00 Marie-Agnès Courty; The Micromorphology of Abrupt Climatic Change

10:20 Arlene Rosen; Environmental and Agricultural Stress: Two Factors in the Collapse of Late Third Millennium Societies in Western Palestine
10:40 Stuart Manning; End of the Early Bronze Age in the Aegean: Context, Chronology, Causes, and Effects
11:00 Gregory Possehl and Richard Meadow; Climate, Collapse and Civilization in the Greater Indus Region
11:20 Kathryn Bard; State Collapse in Egypt in the Late Third Millennium B.C.
11:40 Discussant: George Kulka

[79] Symposium: *EARLY SALADOID PERIOD SETTLEMENT OF THE LESSER ANTILLES: IMPLICATIONS FROM THE TRANTS SITE, MONTSERRAT*
Room: Promenade Ballroom C
Organizer: David Watters
Participants:
10:00 David Watters; Field Methods and Chronology at Trants, Montserrat
10:20 James Peterson; Trants Site Spatial and Sediment Data: Implications for Saladoid Period Research
10:40 Lee Newsom; Archaeobotanical Research at the Trants Site, Montserrat, West Indies
11:00 Elizabeth Reitz; Vertebrate Fauna from Trants, Montserrat
11:20 John Crock; Saladoid Period Lithic Technology As Seen from the Trants Site, Montserrat, West Indies
11:40 Richard Scaglion and David Watters; Beads and Pendants from Trants: Descriptive Statistics and South American Connections

[80] General Session: *IROQUOIAN STUDIES*
Room: Promenade Ballroom C
Chairperson: Phillip Neusius
Participants:
7:40 Kathleen Allen; Form and Function in Iroquoian Ceramics
8:00 Veletta Canouts; Stylistic Indicators of Social Differentiation: Whole Vessel Analysis of Ritual Ware from Western New York
8:20 Phillip Neusius; Stone Tool Diversity in Iroquoian Studies: Are We Missing Something Here?
8:40 Sarah Neusius, Lynne Sullivan, and Phillip Neusius; Understanding Site Function at the Ripley Site
9:00 Elizabeth Scott; An Iroquois Spring Fishing Campsite: The Faunal Evidence from a Late Pre-Contact Site in Western New York
9:20 Dennis Dirkmaat, James Adovasio, and David Pedler; Human Remains from the Orton Quarry Site, Erie County, Pennsylvania

[81] General Session: *HIGHLAND MESOAMERICA*
Room: Directors Room 29
Chairperson: Heather Orr
Participants:
7:40 Jennifer Blitz; Shifting Dietary Patterns at Monte Alban: A Perspective from Bone Chemistry Analyses
8:00 James Sheehy; San Martin Orange and the Stages of Ceramic Production in Tlajinga 33, Teotihuacan, Mexico
8:20 Samburo Sugiyama; Meanings and Functions of Prehistoric Looting at Teotihuacan, Mexico

8:40 Arthur Joyce; The Interregional Impact of State Formation in Oaxaca
9:00 Heather Orr; The Ballplayers of Dainzu: Evidence for Inter-Site Elite Competition in the Late Formative Valley of Oaxaca

[82] General Session: *MIDWESTERN UNITED STATES*
Room: Promenade Ballroom F
Chairperson: Neal Trubowitz
Participants:
7:40 Neal Trubowitz; The Overlooked Ancestors: Rediscovering the Pioneer Archaeology Collections at the Missouri Historical Society
8:00 Karen Dohm and Daniel Rogers; Ceramics and Domestic Organization: Post Contact Coalescent Arikara
8:20 Jeanette Stevens, Michael Hargrave, and Charles Cobb; A Locational Analysis of Mississippian Mound Centers in Southwestern Illinois
8:40 R. Eric Hollinger; Application of Paleoethnobotanical Data to the Issue of Late Prehistoric Depopulation of the LaCrosse Area of Wisconsin
9:00 Kenneth Carstens, Pat Bomba, and Kristen Brown; A Cartographic GIS for the Fort Jefferson Archaeological Research Area

[83] General Session: *SOUTHWESTERN UNITED STATES*
Room: Directors Room 47
Chairperson: Rebecca Proctor
Participants:
7:40 Owen Lindauer; White Wares of the Tonto Basin: Broad Scale Exchange, Emulation, or Both?
8:00 Andrew Duff and James Burton; Insights into Post-Chacoan Social Organization Utilizing Weak Acid-Extraction ICP Analysis of Ceramics
8:20 Elizabeth Miksa; Identifying the Origin of Ceramic Tempering Sands Using Petrographic Pointcount Analysis: An Example from Central Arizona
8:40 Winifred Creamer; Reconstructing Protohistoric Demography in the Northern Rio Grande Valley
9:00 Jerimy Cunningham, Lynn Malinowski, and Shawn Haley; Alpine Archaic Lithic Assemblages from the Wastach Mountains of Central Utah
9:20 Richard Ahlstrom; Dimensions of Change in Prehistoric Pueblo Religion
9:40 William Walker; Puebloan Witchcraft and the Archaeology of Violence
10:00 Lisa Bibb; Some Thoughts on the Theoretical Contributions of Archaeology in the Southwestern, U.S.
10:20 Mark Varien and K. Kuckelman; Abandonment of Structures, Sites and Regions: A Case Study from the Mesa Verde Region
10:40 Rebecca Procter; Assessing Design Structure in Fragmentary Materials: Methodological and Theoretical Issues in the Southwest
11:00 Henry Wallace, William Doelle, and James Heidke; Hohokam Origins
11:20 Douglas Craig, James Holmlund and Jeffrey Clark; Labor and Organizational Considerations in Platform Mound Construction: A Case Study from the Tonto Basin of Central Arizona
11:40 Catherine Cameron; The Collapse of the Chacoan System: Fragmentation and Social Reorganization in the American Southwest

[84] Poster Session: *EASTERN NORTH AMERICA*

Participants:

James Truncer; A Chemical Characterization of the Middle Atlantic Steatite Quarries
Anne Rogers; Fish Weirs in the Southern Appalachians
Amy Young; Recent Archaeological Investigations at Locust Grove Plantation
Glen Greene; Five Years of Coring at Poverty Point
Christopher Linder; Effects of Catastrophic Floods Occasioned by Misuse of the Landscape
Douglas Charles; Projecting Settlement Distributions from Surveys of Mortuary Sites
William Dancey; Adena Mortuary Practices in Central Ohio
Carol Morrow; Blue-Gray Chipped Stone Disks: Middle Woodland Thingamabobs
Charles Markman; Miller's Cave 70 Years Later
Mary Beth Trubitt; Production and Distribution of Shell Beads in Mississippian Communities
Ellen Cesarski; A Proposed Chronological Sequence for Mound City
Thomas Berres, Kenneth Farnsworth, and Randall Hughes; Northern Illinois Pipestone and Hopewellian Exchange Systems

SATURDAY AFTERNOON APRIL 17, 1993

[85] Invited Symposium: *CONTEMPLATING A QUARTER CENTURY OF ARCHAEOLOGY IN THE CENTRAL ANDES*

Room: Rose Garden
Organizer and Chairperson: Richard Burger
Participants:

1:00 Deborah Pearsall; Advances in Andean Paleoethnobotany
1:20 George Miller; From Species Lists to Taphonomic Reconstruction: 25 Years of Zooarchaeology in the Central Andes
1:40 Heather Lechtman; Andean Technology and Andean Culture
2:00 John Topic and Teresa Topic; The Northern Sierra of Peru: Recent Research and New Interpretations
2:20 Carol Mackey; Advances in North Coast Archaeology
2:40 Jeffrey Quilter; The Central Coast of Peru
3:00 Ramiro Matos and Charles Hastings; Archaeological Research in the Central Peruvian Highlands, 1967–1992
3:20 Miguel Pazos and Helaine Silverman; From Master Column to Culture Process on the South Coast of Peru
3:40 Charles Stanish; A Generation of Archaeological Research in the South Central Andean Highlands
4:00 Geoffrey Conrad; The Far South Coast of Peru: Lanning Plus 25

[86] Symposium: *TWO YEARS AFTER: REPATRIATION AND ITS IMPLEMENTATION*

Room: Promenade Ballroom D
Organizer and Chairperson: Timothy Baugh
Participants:

1:00 Francis McManamon; Regulations Implementing the Native American Graves Protection and Repatriation Act: A Status Report
1:20 Timothy McKeown; Legislating the Dead: Negotiation and the Native American Graves Protection and Repatriation Act (NAGPRA)

1:40 Timothy Baugh and Thomas Killion; The Response to Repatriation: A Look at Museum Approaches in the United States
2:00 Trudy Nicks and Tom Hill; Turning the Page: Forging New Partnerships Between Museums and First Peoples
2:20 G. Peter Jemison; Who Owns the Past?
2:40 Roger Anyon and T. J. Ferguson; Repatriation at Zuni: A Case Study
3:00 Larry Benally and Alan Downer; The Trouble With Traditional Cultural Properties: Practical Considerations of Managing the Navajo Nation's Most Important Cultural Resources
3:20 Leigh Jenkins; REPATRIATION, Why It Is Morally Necessary... A Historical Perspective on American Indian Collections
3:40 Discussant: Rick Hill
4:00 Discussant: Jonathon Haas

[88] Sponsored Session: *MYSTERIES IN ARCHAEOLOGY: HOW ARCHAEOLOGISTS SEPARATE FACT FROM FICTION (SAA Committee on Public Education)*

Room: St. Louis Ballroom D
Organizer: Nancy Hawkins
Chairperson: Phyllis Messenger
Participants:

1:00 Phyllis Messenger; Introduction
1:20 Kenneth Feder; Frauds, Myths, and Mysteries: Science and Pseudoscience in Archaeology
1:40 Robert Ackerman; By Sea or By Land?—The Earliest Immigrants to North America
2:00 William Sanders; Evolution and Diffusion in Prehispanic Mesoamerica

[89] Symposium: *PATTERNING IN FAUNAL ASSEMBLAGES: NEW APPROACHES TO THE STUDY OF BUTCHERY AND TAPHONOMY*

Room: Directors Room 26
Organizer: Pam Crabtree
Organizer and Chairperson: Anne Pike-Tay
Participants:

2:00 Douglas Campana; Middle Paleolithic Butchery at Shanidar Cave
2:20 Jean Hudson; Tracking Bone from Hunting to Consumption and Deposition: Ethnoarchaeological Data from a Modern Foraging Group, the Aka of Central Africa
2:40 Bill Grantham; Cuisine: an Alternative Approach to Evaluating Carcass Part Distribution
3:00 Dienje Kenyon; Whalers Informing Archaeology: Notes From 100 Years Ago
3:20 James Savelle; A Taphonomic Investigation of Mass Beluga Whale Kills, Arctic Canada
3:40 Katherine Boyle; Recognizing Differences in Element Representation Patterning
4:00 Mary Stiner; Research on the Taphonomy of Small Animal Remains from Archaeological Sites: Three Case Studies
4:20 Cheryl Claassen; Using Shell Fragmentation to Identify Surfaces at Dogan Point
4:40 Discussant: R. Lee Lyman

[90] Symposium: *SEEDS TO GARDENS: TOPICS IN PLAINS ETHNOBOTANY*

Room: Promenade Ballroom B
Organizer and Chairperson: Mary Adair
Organizer: Fred Schneider
Participants:

1:00 Richard Drass; Plant Use and Changes in Subsistence During the Protohistoric Period on the Southern Plains

1:20 William Green, Douglas Jones, and Clare Tolmie; Late Prehistoric and Protohistoric Plant Use on the Eastern Plains: New Evidence from Western Iowa
1:40 Mary Adair; Pre-Maize Gardening in the Central Plains
2:00 Karl Reinhard, Karin Sandness, and Larry Tieszen; Historic Dietary Patterns in Northeast Nebraska
2:20 Thomas Shay; The Uses of Plants During the Late Prehistoric Period in the Northeastern Plains
2:40 Fred Schneider; Native American Gardening in the Northeastern Plains: Experiments and Observations
3:00 David Asch; Evolution and Domestication of the Common Sunflower (*Helianthus annuus*)
3:20 Susan Mulholland; Patterns of Plant Use/Discard: Phytolith Evidence from Big Hidatsa, North Dakota
3:40 Michael Scullin; Climatic Factors and Corn-Yield in the Northern Plains
4:00 Discussant: Richard Ford

[91] **Symposium: *COBWEBS, BACKDIRT, AND PAYDIRT: RECENT RESEARCH AT THE MADISONVILLE SITE***
Room: Directors Room 29
Organizer and Chairperson: C. Wesley Cowan
Participants:
2:00 C. Wesley Cowan; Cobwebs, Backdirt, and Paydirt: Recent Research at the Madisonville Site
2:20 Penelope Drooker; External Relations: Exotic Materials and Artifacts at Madisonville
2:40 Donna Glowacki, Christopher Turnbow,and Ronald Fields; New Perspectives on the Fort Ancient Ceramics of the Madisonville Site, Southwestern Ohio
3:00 James Litfin, Pamela Jackson, and Kent Vickery; An Examination of Chipped Stone Arrowpoints from the Madisonville Site in the Central Ohio Valley
3:20 Karli White and Bonnie Styles; Fort Ancient Faunal Exploitation at the Madisonville Site
3:40 Sandra Dunavan; Madisonville Paleoethnobotany: Changes in Late Prehistoric Crops and the Use of Native Plants
4:00 Paul Sciulli and Myra Giesen; Stature of the Madisonville Population in Evolutionary and Ecological Content
4:20 Myra Giesen; Acquired Dental Pathologies in a Sample of the Madisonville Collection
4:40 Concluding Remarks: C. Wesley Cowan

[92] **Symposium: *CONTRIBUTIONS OF THE U.S. ARMY CORPS OF ENGINEERS TO NORTH AMERICAN ARCHAEOLOGY***
Room: Promenade Ballroom F
Organizers and Chairpersons: Charles Smith and Michael Trimble
Participants:
1:00 Rick Minor and Lynda Walker; Late Prehistoric Cultural Dynamics in the Columbia River Gorge, Oregon and Washington
1:20 Timothy Thompson; Prehistoric Occupation at the Falls of the James
1:40 Robert Ricklis; Continuity and Acculturative Change on the Upper Texas Coast: Archaeology at the Mitchell Ridge Site, Galveston Island
2:00 Michael Wiant and Ken Barr; A GIS-based Cultural Resource File for the Upper Mississippi River Navigation Study

2:20 Jack Bennett; A Decade of Contract Archaeology for the U.S. Army Engineer District, Little Rock: A Contractor's Perspective
2:40 Mary Bade and Rhonda Lueck; Curatorial Needs Assessment at Department of Defense Installations
3:00 Thomas Meyers and Michael Trimble; Archaeological Records Management at Military Facilities: A Regional Perspective
3:20 Discussant: Ed Jelks
3:40 Discussant: Michael O'Brien

[93] **Symposium: *TROPICAL COASTAL SUBSISTENCE***
Room: Promenade Ballroom E
Organizer and Chairperson: Lynette Norr
Participants:
1:00 William Keegan; Archaic and Saladoid Diets in the West Indies: Too Little Land and Too Much Sea
1:20 Heather McKillop; Prehistoric Coastal Maya Use of Native Palms
1:40 Frederick Lange; Identifying Seasonality in Coastal Subsistence Systems on the Pacific Coast of Prehistoric Central America
2:00 Ifigenia Quintanilla; Subsistence Patterns in the Sierpe-Terraba Delta, Costa Rica
2:20 William Doonan and John Hoopes; Oysters, Cockles, Clams and Snails: Changing Patterns of Prehistoric Shellfish Exploitation in Southern Costa Rica
2:40 Lynette Norr; A Coastal Site and a Terrestrial Diet: Isotopic Evidence from Cerro Mangote, Panama
3:00 Anthony Ranere, Patricia Hansell, and Richard Cooke; The Use of Coastal Resources in Prehistoric Panama
3:20 Carlos Fitzgerald; Coastal Resource Exploitation by Central Panamanian Chiefdoms
3:40 Richard Cooke; Actualistic Studies of Fish Movements in the Middle and Upper Estuaries of a Panamanian Pacific Coast Embayment: Relevance to Precolumbian Fishing Practices
4:00 Renee Bonzani, Augusto Oyuela-Caycedo, and Jaime Castro; Technology and Subsistence: The Case of a Collector Population in Northern South America
4:20 Diogenes Patino; Subsistence Patterns Along the Southern Pacific Coast of Columbia
4:40 J. Scott Raymond, Nikolaas van der Merwe, and Julia Lee-Thorp; Staple Foods in Formative Coastal Ecuador: Maize, Manioc, Fish?

[94] **Symposium: *ROCKS AND SALT: ECONOMIC VARIABILITY IN THE SOUTHERN MAYA LOWLANDS FROM HELLHOLES TO SKY PALACES***
Room: Promenade Ballroom A
Organizers and Chairpersons: Jay Kotliar and Maureen Carpenter
Participants:
12:40 Brandon Lewis; Late Classic Maya Integration: Perspectives from the Lithic Production System in Northeastern Peten
1:00 Maureen Carpenter and Curtis Campaigne; Maya Elite Use of Obsidian at Caracol
1:20 Jay Kotliar; Two Faces of Chert: Lithic Production and Interregional Variation During the Late-Terminal Classic in Northern Belize
1:40 Shirley Mock; When It Rains It Pours: Additional Evidence of Saltmaking Technology at the Northern River Lagoon Site in Belize, Central America
2:00 Discussant: Dan Potter

[95] **Symposium:** ***EMERGING COMPLEXITY AT THE MAYA SITE OF KICHPANHA, BELIZE***
Room: Promenade Ballroom A
Organizer and Chairperson: Leslie Shaw
Participants:
2:40 Leslie Shaw; Architecture and Ritual of Emerging Inequalities at Kichpanha, Belize
3:00 Ann Magennis; Health Consequences of Complexity at Kichpanha
3:20 Kathryn Reese-Taylor, Frances Meskill, and Fred Valdez, Jr.; Innovation and Continuity in Preclassic Ceramic Production
3:40 Frances Meskill; Innovation, Renovation, Symbol, and Place: A Protoclassic Perspective from the Site of Kichpanha, Northern Belize
4:00 John Cross; A Lithic Workshop at Kichpanha: Production and Consumption Within a Late Preclassic Maya Community
4:20 Discussant: Fred Valdez

[96] **Symposium:** ***CURRENT PERSPECTIVES ON ILLINOIS ARCHAEOLOGY: THE NORTH SPEAKS FOR ITSELF***
Room: Promenade Ballroom C
Organizers and Chairpersons: Rochelle Lurie and M. Catherine Bird
Participants:
12:40 Rochelle Lurie; Reflections on the Archaic Period in Northeastern Illinois: The Garrison Site
1:00 Thomas Wolforth; The Steuben Phase: Definition of a Late Middle Woodland Phase in Northern Illinois and Southern Wisconsin
1:20 Mark Mehrer; New Perspectives on Late Woodland in Northern Illinois
1:40 M. Catherine Bird; Current Perspectives: Mississippian Research in Northern Illinois
2:00 John Willis; The Zimmerman Site: The Early Historic Component
2:20 Discussant: Robert Jeske

[97] **General Session:** ***MESOAMERICAN ARCHAEOLOGY***
Room: Directors Room 26
Chairperson: John Fox
Participants:
1:00 John Fox; Excavations at a Late Preclassic Ballcourt Complex in the Department of Yoro, Honduras
1:10 Dennis Logan, Nicholas Dunning, and Michael Smyth; Ancient Gardens of the Puuc: Site-wide Soil Sampling at Sayil, Yucatan, Mexico
1:20 Evelyn Rattray; Archaeological Implications from the Contemporary Potters of El Rosario and Otzolotepec, Puebla
1:30 Malinda Hutinett; The Distribution of Teotihuacan *candeleros*

[98] **General Session:** ***EASTERN WOODLANDS***
Room: Directors Room 29
Chairperson: Constance Arzigian
Participants:
1:00 Lawrence Abbott; The Production, Use, and Distribution of Metavolcanic Raw Material from the Slate Belt: An Example from Central North Carolina
1:10 Nancy White and Richard Estabrook; Late Archaic Shell Mound Components in the Apalachicola Delta Wetlands, Northwest Florida
1:20 Charles Moffat and Constance Arzigian; Lakeside Late Woodland Campsites and Wild Rice: New Data from Northern Wisconsin
1:30 Jennifer Grover; The Faunal Remains from Dust Cave, Alabama

[99] **General Session:** ***MIDWESTERN UNITED STATES***
Room: Promenade Ballroom F
Chairperson: Mark Wagner
Participants:
4:20 Toby Morrow; Archaeological Traces of Children's Learning Behavior: Tenative Interpretations from the Twin Ditch Site
4:30 Mark Wagner; Archaeological Investigations at Three Mid-Nineteenth Century Farmsteads in Shawnee County, Kansas
4:40 Andrea LeVasseur, Gordon Peters, and Stephen Mulholland; The Misiano Site: A Multicomponent Occupation in Northeastern Minnesota

[100] **General Session:** ***SOUTHWEST***
Room: Directors Room 47
Chairperson: David Abbott
Participants:
1:00 Barbara Roth; Late Archaic Lithic Procurement Strategies in the Tucson Basin
1:20 James Neely, William Doolittle, and Michael Pool; Is It, or Isn't It? Distinguishing Prehistoric from Recent Water and Soil Control Features in the American Southwest
1:40 Teresa Hoffman; Stewards of the Past—Volunteers Preserving Our Heritage
2:00 Michael Adler; Why is a Kiva? Prehistoric Pitstructures in the Taos Region, Northern New Mexico
2:20 David Doyel; The Gatlin Site, Gila Bend, Arizona: Site Structure and Organization
2:40 David Phillips; Interpreting Low-Density Artifact Scatters: An Example from Southeast Arizona
3:00 Julia Sanchez; A New Model of Mimbres Faunal Subsistence
3:20 Harry Shafer; Transitional Pueblo Development in the Mimbres Valley, New Mexico
3:40 David Abbott; Differential Participation in Local Exchange Networks: Evidence for Incipient Social Stratification Among the Classic Period Hohokam
4:00 Lisa Renken; A Functional Analysis of Necked Vessels from Northern Black Mesa, Northeastern Arizona
4:20 Laurie Slawson; Site Utilization, Settlement Patterns, and Lithic Technology: An Analysis of the Archaic/Hohokam Overlook Cave Site
4:40 Mary Metcalf; Politics and Architecture: Patterns of Labor Investment in the Northern Southwest

[101] **Poster Session:** ***WESTERN NORTH AMERICA***
Participants:
Daniel Larson and Doug Bamforth; Climatic Variability, Resource Predictability, Production: A Cultural-Ecological Background for the Late Occupation of the Great Plains
Virginia Butler and James Chatters; On the Importance of Bone Density in Structuring Prehistoric Salmon Bone Assemblages
Michael Collins,Paul Goldberg, and C. Britt Bausman; Interdisciplinary Investigations of Paleoindian Occupations at the Wilson-Leonard Site, Texas
Charles Reher and George Frison; The Vore Buffalo Jump: Research, Education and Economic Development in Northeast Wyoming
Michael Gregg, Fern Swenson, and Paul Picha; Middle Woodland Cultural Developments on the Northern Great Plains: Recent Data and New Interpretations
Brooke Arkush, Philip Wilke, Matthew Hall and Robert Parr; Prehistoric Wing Traps in the Western Great Basin

Paul Buck, Daniel Amick and Willaim Hartwell; A Prehistoric Stone Quarry in Midway Valley, Southern Nevada
Dennis Lewarch, Julie Stein, and Lynn Larson; Coastal Sites in Seattle, Washington: How Many Others Are Below Sea Level?
Howard Gard, Dennis Dauble, and James Chatters; Salmonid Behavior and River Morphology As a Means of Predicting Archaeological Fishing Site Locations
Jeffrey Yelton; The Boone's Lick Site: Early Nineteenth-century Industry on the Frontier
Hector Neff, Mark Glascock, and David Walters; North American Obsidian Studies at the Missouri University Research Reactor

5 PM TO CAHOKIA

SUNDAY MORNING APRIL 16, 1993

[102] Symposium: ***MOUNDVILLE REVISITED: A ROUNDTABLE DISCUSSION***
Room: Promenade Ballroom E
Organizers and Chairpersons: Vernon Knight and Vincas Steponaitis
Participants:
8:00 Vernon Knight; Moundville as a Diagrammatic Ceremonial Center
8:20 Vincas Steponaitis; Population Trends at Moundville
8:40 Margaret Scarry; Examining the Mundane: Domestic Life at Moundville
9:00 Paul Welch; What Were People Doing at Outlying Sites Within the Moundville Chiefdom?
9:20 Lauren Michals; The Oliver Site and Early Moundville Phase Economic Organization
9:40 Daniel Gall; Greenstone Artifacts at the Moundville Site, Alabama: Petrography and Provenance
10:00 Margaret Schoeninger, Mark Schurr, and Lane Beck; Human Subsistence at Moundville: The Stable Isotope Data
10:20 Mary Powell; Chronological Trends in Moundville Health
10:40 Discussant: George Milner
11:00 Discussant: Christopher Peebles

[103] Symposium: ***CHANGING PERSPECTIVES OF NAVAJO CULTURE: RECENT RESEARCH ON NAVAJO ARCHAEOLOGICAL SITES***
Room: Rose Garden
Organizer: Ronald Towner
Organizer and Chairperson: Jeffrey Dean
Participants:
7:40 Curtis Schaafsma; The Piedra Lumbre Phase and the Origin of the Navajo
8:00 Jerry Fetterman; Early Navajo or Old Wood by Aztec?
8:20 Charles Wheeler, ScottWilcox,and David Ayers; Material Correlates of Early Navajo Ceremonialism
8:40 Paul Reed and Lori Reed; Re-Examining Gobernador Polychrome: Toward a New Understanding of the Early Chronological Sequence of Northwestern New Mexico
9:00 Gary Brown; Cultural and Temporal Variability During the Protohistoric Transition in the Northern San Juan Region
9:20 Ronald Towner; The Pueblito Phenomenon: A New Perspective on Post-Revolt Navajo Culture
9:40 Richard Begay and Alexa Roberts; Early Navajo Occupation of the Grand Canyon Region

10:00 Dana Oswald; Natural and Social Agents in Navajo Cultural Evolution on Black Mesa
10:20 Dennis Gilpin; Historic Period Colonization of the Northern Chaco Plateau, Northwestern New Mexico
10:40 Candi Helms; The Impact of Federal Indian Policies on the Navajo Nation's Constructed Environment
11:00 Miranda Warburton; The Cultural Landscape of the Navajo New Lands, Arizona
11:20 Robert Johnson, Mary Bernard-Shaw, and Rebecca Austin; Ethnoarchaeology on the Dineh Nation: New Procedures and Methods for Cultural Resource Investigations on Tribal Lands
11:40 Discussant: Jeffrey Dean

[104] Symposium: ***THE EMERGENCE OF POTTERY***
Room: Directors Room 29
Organizer: William Barnett
Participants:
8:00 Andrew Moore; The Inception of Potting in Western Asia and Its Impact on Economy and Society
8:20 Karen Vitelli; Pots, Potters and Society in Neolithic Greece and the Eastern Mediterranean
8:40 William Barnett; Early Pottery and the Neolithic Transition in the Central and Western Mediterranean
9:00 Anne Gebauer; Early Pottery in Northern Europe
9:20 Terry Hunt; Early Ceramics in the Pacific Islands
9:40 Maura Imazio de Silveira, Anna Roosevelt, and Rupert Housey; Eighth Millenium Pottery (uncalibrated) in the Amazon: Evolutionary Implications
10:00 Augusto Oyuela-Caycedo, Renee Bonzani, and Jaime Castro; Rock Vs. Clay: The Evolution of Pottery Technology in the Case of San Jacinto 1 (Columbia)
10:20 John Clark and Dennis Gosser; Reinventing Mesoamerica's First Pottery
10:40 John Hoopes; Social Contexts for Early Pottery in the Central American Isthmus
11:00 Kenneth Sassaman; The Social Contradictions of Traditional and Innovative Cooking Technology in the American Southeast
11:20 Discussant: William Longacre
11:40 Discussant: Prudence Rice

[105] Symposium: ***THE INKA EXPANSION INTO THE SOUTHERN ANDES: THE VIEW FROM THE CALCHAQUI VALLEY, ARGENTINA***
Room: Directors Room 46
Organizer and Chairperson: Terence D'Altroy
Participants:
8:40 Terence D'Altroy; The Formation of Inka Rule in Northwest Argentina
9:00 Elizabeth Demarrais; Regional Settlement Organization in the Calchaqui Valley Under Inca Rule
9:20 Veronica Williams; Architecture and Settlement Organization in Inka-Period Sites in the Calchaqui Valley
9:40 Christine Hastorf; The Inka's Impact on Agriculture and Crop Movement in the Calchaqui Valley
10:00 Elsie Sandefur and Robert Daniels; Comparison of Faunal Remains from Inka and Santamariana Sites in the Calchaqui Valley
10:20 Milena Calderari; Inka Period Ceramic Styles of the Calchaqui Valley

10:40 Melissa Hagstrum; Craft Economies at the Empire's Frontier: Ceramic Tools for Inka and Santamariana Metallurgy
11:00 Timothy Earle; Wealth, Finance and Attached Specialization in the Inka Imperial Expansion into the Calchaqui Valley

[106] Symposium: *NEW DIRECTIONS IN AMERICAN BOTTOM ARCHAEOLOGY*
Room: Promenade Ballroom C
Organizer and Chairperson: John Kelly
Participants:
8:20 William Woods and Edwin Hajic; The Archaeological Significance of Recent Geomorphological Investigations in the Northern American Bottom
8:40 Amy Ollendorf; Paleoecology and Culture Change in the American Bottom, USA
9:00 George Holley, Joyce Williams, and Donald Booth; An Upland Valley Perspective: Preliminary Results from the Scott Joint-Use Archaeological Mitigation Project
9:20 Joseph Harl and Patti Wright; An East-Central Missouri Perspective
9:40 Julie Morrow and Kenneth Tankersley; Clovis Sites in the American Bottom
10:00 Steven Ahler; Early, Middle, and Late Archaic Settlement Systems in the American Bottom and Central Illinois
10:20 Michael Higgins; The Nochta Site and the Early to Middle Archaic Transition in the Northern American Bottom
10:40 Thomas Maher; "...and Miles to Go Before We Sleep": What We Know About the Middle Woodland in the American Bottom
11:00 Andrew Fortier; Aspects of Mississippian Busk Ceremonialism and Cosmology from the Cahokia Precincts
11:20 Douglas Jackson; A Reevaluation of the Oneonta Tradition in the American Bottom
11:40 Bonnie Gums; The Historic Occupations of the American Bottom Region

[107] Symposium: *MICRO-ECONOMY, MIDDLE RANGE THEORY, AND THE HOHOKAM*
Room: Directors Room 26
Organizers: Mark Slaughter and Mark Chenault
Participants:
8:20 Mark Chenault and Kirk Anderson; The Microarchaeology of Hohokam Floors
8:40 Jeffrey Homburg, Richard Ciolek-Torrello, and Steven Shelley; Dry Farming in the Sonoran Uplands: A Methodological Study
9:00 Scott Kwiatkowski and Jo Anne Miller; Using Archaeobotanical Data for Site Level Inferences: Some Hohokam Examples
9:20 Mark Slaughter and Linda Gregonis; Artifacts, Features, and Agave Use: An Aspect of Technological Organization at La Ciudad de Los Hornos
9:40 Dawn Greenwald; The Interpretation of Intra-Site Economic Strategies Based on the Distribution of Ground Stone Artifacts
10:00 Deni Seymour; From Micro to Macro: Reconstructing Economic Interrelations from the Ground Up
10:20 Thomas Motsinger; Benches, Shelves, and the Partitioning of Vertical Space: Interior Elements of Hohokam Architecture at Los Hornos
10:40 Todd Bostwick; An Examination of Craft Production at Pueblo Grande, a Hohokam Platform Mound Village in Phoenix, Arizona
11:00 Paul Fish, Suzanne Fish, and James Bayman; Production, Consumption, and Trade at the Marana Mound Site

11:20 Discussant: Randall McGuire
11:40 Discussant: William Doelle

[108] Symposium: *FINS, FEATHERS, FUR, AND FIRE: NEW ALLIANCES IN THE U.S. FOREST SERVICE HERITAGE RESOURCES PROGRAM*
Room: Promenade Ballroom A
Organizer and Chairperson: Sandra Forney
Participants:
8:00 Thomas Keter; An Interdisciplinary Approach to Historical Environmental Modeling
8:20 Terrance Martin, John Anderton, and John Franzen; Northern Exposure: Late Woodland Environment and Subsistence in the Hiawatha National Forest of Northern Michigan
8:40 Daniel Haas; Who's Burning the Forest? A Discussion of Native American-set Fires in the Midwest
9:00 Richard Kandare and Susan Stout; Branching Out: Interdisciplinary Research Involving Cultural Resource Management, Forest Management, and Ecosystems Management to Understand the Natural and Cultural Effects on the Historic Logging Era (ca. 1890–1930) on the Allegheny National Forest, Pennsylvania
9:20 Ian Ritchie; The Stevens Pass Historic District: Available Historic Resources and Potential Case Studies in Railroad and Fire History Relating to Ecological Processes
9:40 Mary McCorvie and Carol Morrow; The Occurrence of the North American Buffalo in the Eastern Woodlands
10:00 Orrin Shane, III and William Yourd; Changes in the Leech Lake Fishery as Inferred from Fish Remains at a 19th Century Trading Post on Horseshoe Bay, Leech Lake, Minnesota

[109] Symposium: *GOVERNMENT RELATIONS AND THE ARCHAEOLOGIST: MAKING A DIFFERENCE IN PUBLIC POLICY*
Room: Promenade Ballroom F
Organizer and Chairperson: Kathleen Schamel
Participants:
8:20 Kathleen Schamel; The Political Koola Ring: An Historical Overview of the SAA in Government Relations
8:40 Judith Bense; Gaining and Maintaining Local Government Archaeological Policy in Pennsacola, Florida
9:00 Dean Snow; Archaeology and Public Policy in New York
9:20 Loretta Neumann; From Congress to Consulting: Another View of the Archaeologist in Government Relations
9:40 Alan Downer; Working the Hill: Navajo Nation Experience Lobbying Congress and Federal Agencies for Cultural Resource Conservation
10:00 William Lovis; An Issue of Effectiveness—Responding to Archaeological Legislation at the National Level Through the SAA Government Affairs Committee
10:20 Barto Arnold, III; How Rallying the Grassroots Helped Swing the Shipwreck Act
10:40 Ann Early; Sinking or Swimming in the 90's: Making COPA Work
11:00 Discussant: Francis McManamon
11:20 Discussant: Michael Kaczor
11:40 Discussant: Hester Davis

[110] Symposium: *OLD WORLD TRADE AND INTERACTION IN THE FOURTH AND EARLY THIRD MILLENNIA B.C.*
Room: Promenade Ballroom D
Organizers and Chairpersons: William Griswold and Benjamin Saidel
Participants:
8:00 Benjamin Saidel; Pastoralists and Nomadic Pastoralists - The Invisible Agents of Social and Economic Change
8:20 William Griswald; Interaction Between Egypt and Mesopotamia in the Later Half of the Fourth Millenium B.C.
8:40 Thomas Levy; Regional Interaction in the Southern Levant, ca. 4500–3500 B.C.E.
9:00 Susan Pollock and Melody Pope; Trade, Tools, and Tasks: The Chipped Stone Industry from an Uruk Town
9:20 Lawrence Stager; Olive Oil: Fueling the Economy of the Levant and Egypt in the Early Bronze Age
9:40 Christopher Edens; Mountains and Lowlands?: The Kura-Araxes Expansion and Archaeological Interpretation
10:00 Isaac Gilead; Long-Distance Contacts of the Ghassulian Culture of Southern Palestine
10:20 Juris Zarins; Pastoral Nomadism and the Galena Trade: A Middle Kingdom Egyptian Example
10:40 Discussant: Robert Wenke
11:00 Discussant: C. C. Lamberg-Karlovsky

[111] General Session: *OLD WORLD ARCHAEOLOGY*
Room: Promenade Ballroom B
Chairperson: Barbara Voytek
Participants:
7:40 David Nash, Anatoly Derevyanko, and Mikhail Shun'kov; Middle and Upper Paleolithic Research at Denisova Cave, the Altai, Russia
8:00 Lynn Fisher; Overwintering Strategies and Risk Among Hunter-Gatherers: Clues from the Ethnographic Record and an Archaeological Case from the European Late Glacial
8:20 Nuno Bicho; How Two Kilometers Can Make a Difference: A Raw Material Study of Epipaleolithic Assemblages from Central Portugal
8:40 Barbara Voytek; Grotta dell'Edera in the Prehistoric Context of the North Adriatic
8:50 Shannon McPherron; The Overlooked Importance of Absolute Size in Predicting Acheulian Biface Morphology

[112] General Session: *NORTH AMERICAN ARCHAEOLOGY*
Room: Promenade Ballroom B
Chairperson: Robert Brooks
Participants:
9:20 Rebecca Storey; European Contact and Health: The Evidence from Two Skeletal Populations from the Apalachee Provice, North Florida
9:40 Robert Brooks; "Ain't No Place Quite Like This Place": The Case for Sedentism Among Southern Plains Villagers
10:00 Todd Koetje; Spatial Patterning During the Early and Late Archaic at 36 ME 105
10:20 Stelle Lenville; The Search for the Grand Village of Kaskaskia
10:40 Philip Carr and Walter Klippel; Foragers and Collectors as Two Extremes: What Lies Between the Continuum?

11:00 Lora Anderson; Rock Art and Land-Use Patterns in the Archaic Southwest: A Case Study in the Upper Basin, Coconino County, Arizona

[113] General Session: *PALEO-INDIAN STUDIES*
Room: Directors Room 27
Chairperson: Joseph Powell
Participants:
8:20 Blaine Ensor; The Clovis Assemblage from the Belle Min Paleo-Indian Locality, Middle Tennessee River Valley, Limestone County, Alabama
8:30 Andrea Freeman; Geochronology of the Boyd Paleoindian Site, Western Kentucky
8:40 Lee Kreutzer; Taphonomy of the Mill Iron, Montana Bison Bone Bed
9:00 Frederic Sellet; A Dynamic View of Paleoindian Lithic Assemblages at the Hell Gap Site, Wyoming: Reconstructing Lithic Technological Systems
9:20 Jack Hofman; Paleoindian Aggregations on the Great Plains: Why, How, When, and Where?
9:40 Dean Sather; Geoarchaeology of the Norton Paleoindian Bonebed in Stratigraphic History and Assemblage Definition
10:00 Joseph Powell, Michael Pendleton, and Gretchen Jones; Dental Wear and Diet of Late Paleoindian and Early Archaic Populations from North America: Results of Scanning Electron Microscopy
10:20 Carole Mandryk; A Historical and Sociopolitical Analysis of the Ice-free Corridor
10:40 Douglas Bamforth; Spatial and Temporal Variability in Paleoindian Landuse in the Medicine Creek Drainage, Southwestern Nebraska
11:00 Stanley Ahler and Matthew Root; Folsom Mobility Strategies Viewed from Within and Near the Knife River Flint Source Area, North Dakota
11:20 Matthew Hill; Paleoindian Bonebeds in Western Kansas: Taphonomic Study of the Faunal Remains from Three Sites (Norton Bonebed, 12 Mile Creek, and Burntwood Creek)

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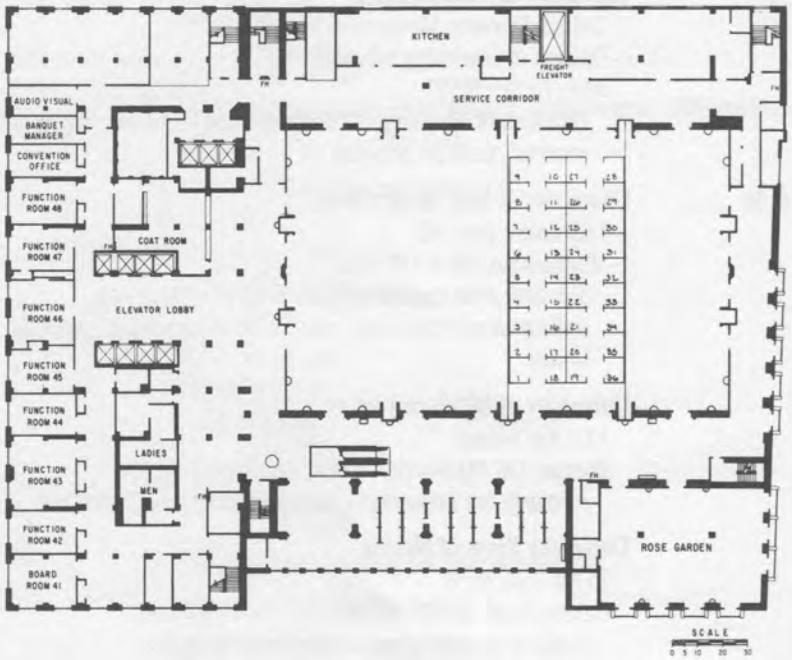

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