# ADVANCED SOUTHWEST ARCHAEOLOGY THE PALEOINDIAN AND ARCHAIC PERIODS

#### PURPOSE

To present members with an opportunity to acquire an in-depth understanding of the Paleoindian and Archaic periods as their occupations are viewed broadly across North America with a focus on the Southwest.

## OBJECTIVES

After studying the manifestation of the Paleoindian and Archaic periods in the Southwest, the student is to have an in-depth understanding of the current thinking regarding:

- A. Arrival of the first Americans and their adaptation to various environments. Paleoenvironmental considerations.
- B. Archaeology of the Paleoindian and Archaic periods in the Southwest and important sites for defining and dating the occupations. Synthesis of the Archaic tradition within the Southwest. Manifestation of the Paleoindian and Archaic occupations of the Southwest in the archaeological record, including recognition of Paleoindian and Archaic artifacts and features in situ and recognition of Archaic rock art.
- C. Subsistence, economy, and settlement strategies of the Paleoindian and Archaic periods in the Southwest.
- D. Transition from Paleoindian to Archaic, and from Archaic to major cultural traditions including Hohokam, Anasazi, Mogollon, Patayan, and Sinagua, or Salado, in the Southwest.
- E. Introduction of agriculture in the Southwest considering horticulture and early cultigens.
- F. Lithic technologies of the Paleoindian and Archaic periods in the Southwest.

## FORMAT

Twenty-five hours of classwork are required to present the class. Ten classes of two and one-half hours each are recommended.

#### PREREQUISITES

Prehistory of the Southwest as presented by the AAS or the equivalent which has been approved by the Department of Certification. The approach used is (1) a broad overview of the Paleoindian occupation of North America, narrowing to western North America, and focusing on the Southwest; (2) the transition to and occupation of the Southwest during the Archaic period; and the subsequent transition to the major Southwestern archaeological cultural traditions (Anasazi, Hohokam, Mogollon, and Patayan). The time frame of Advanced Southwest Archaeology: Paleoindian and Archaic Periods extends from the entry of man into North America to approximately A.D. 500.

## EXAMINATION

At the start of the third class, each student shall select a research topic for approval by the instructor. The report may be presented either orally or in written form, or both. Written reports may be considered for publication in *The Petroglyph*.

## COURSE OUTLINE

- 1<sup>st</sup> Class <u>The First Americans</u>: A brief overview of the development of humankind will precede the examination of the arrival of the first Americans. Issues discussed will include the routes man followed to reach the Americas and the synchronic and diachronic distribution of man across North, Central, and South America. The environments encountered and the adaptive strategies to these environments will be examined. Competing theories related to the issue of arrival, both time and the route, of the first Americans will be examined.
- 2<sup>nd</sup> Class <u>Sites and Complexes</u>: Archaeological evidence that established the existence of Paleoindians in the Southwest will be examined and an overview of Paleoindian complexes and site variability will be presented. Sites and complexes discussed will include Folsom and its intellectual consequences for American archaeology; Blackwater Draw near Clovis, New Mexico, which established the Clovis Horizon; Sandia Cave; San Dieguito; Ventana Cave; and the San Pedro River valley sites in southeastern Arizona (Murry Springs, Lehner, Double Adobe, and Naco). Other complexes such as Plainview, Agate Basin, Firstview, Cody, Jay, and other sites, including current research, may be discussed as time permits.
- 3<sup>rd</sup> Class <u>Artifacts, Chronology, Environment, Economy, and Settlement</u>: Paleoindian artifacts, lithic, and bone, as well as diagnostic lithic technology will be discussed, and demonstrated if feasible. The Paleoindian Chronology will be discussed, along with the question of whether Clovis people were the first Americans. Current arguments will be explored and current research will be reviewed. Paleoenvironmental reconstructions and their importance to Paleoindian study will be examined. Paleoindian hunting strategies, economy, and settlement will also be discussed.
- 4<sup>th</sup> Class End of the Paleoindian Period and Transition to the Archaic: The extinction of the megafauna and the end of the Paleoindian period across the Americas and in the Southwest will be examined. The subsequent transition to the Archaic period and the attendant changes in economy and settlement will be discussed.

- 5<sup>th</sup> Class Archaic Culture: Sites and Complexes: The archaeological evidence that established the existence of the Archaic culture in the Southwest will be examined and an overview of Archaic complexes will be presented. Complexes discussed will include Pinto Basin (San Dieguito-Pinto tradition, including Amargosa), Cochise (Chiricahua and San Pedro traditions), as well as Hueco and Coahuila. The Oshara tradition concept (Jay, Bajada, San Jose, Armijo, En Medio, and Trujillo phases) and the Picosa concept (Pinto Basin, Cochise, and San Jose) will be addressed. Archaic sites to be discussed include those in the ancient lake basins of Southern California and Southwestern Arizona (San Dieguito-Pinto); Ventana Cave, San Pedro River Valley, Cienega Creek, and Wet Leggett (Cochise); southeastern New Mexico, Coahuila and eastern Chihuahua in Mexico, and west Texas (Hueco and Coahuila); and Colorado Plateau and Rio Grande Valley (Oshara).
- 6<sup>th</sup> & 7<sup>th</sup> Classes Artifacts, Chronology, Environment, Ecology, Economy, and Settlement Strategies: Archaic artifacts as well as diagnostic lithic technology, both chipped and ground stone, will be examined. The Archaic Chronology will be discussed, including Archaic subsistence adaptations in general. The importance of Paleoenvironmental reconstructions to the Archaic period, as well as ecological issues will be discussed. Archaic period economy and settlement strategies will be examined.
- $8^{th}$  &  $9^{th}$  Horticulture and the Evidence of Early Cultigens in the
- Classes <u>Southwest</u> A brief overview of the development of agriculture in Mesoamerica will be presented. A review of the general models proposed for the transition to food production and their relevance to the Southwest will be addressed. The development of horticulture and the introduction of corn and other cultigens in later Archaic time will be examined. The acceptance of agriculture and the transition from the Archaic period to the major cultural traditions (e.g., Hohokam, Anasazi, Mogollon, Patayan, Sinagua, or Salado) in the Southwest will be discussed.
- 10<sup>th</sup> Class <u>Conclusion</u> Student reports and presentation of individual ideas developed during the course.

## REFERENCES

Note: In addition to the material cited below, refer to Chapters 4, "The Paleoindian Period," 5, "The Archaic Period," and 6, "The Adoption of Agricultural Strategies," in *Prehistory of the Southwest* by Linda S. Cordell (1984, Academic Press, Inc., Orlando, Florida).

- Agenbroad, Larry D.
  - 1967 The Distribution of Fluted Points in Arizona. *The Kiva* 32(4):113-120.
    - 1978 Cultural Implications from the Distributional Analysis of a Lithic Site, San Pedro Valley, Arizona. In *Discovering Past Behavior: Experiments*, edited by P. Grebinger, pp. 55-71.
- Agenbroad, Larry D., and C. Vance Haynes, Jr. 1975 Bison Remains at Murry Springs, Arizona. The Kiva 40(4):309-314.
- Agenbroad, Larry D., Jim I. Mead, Emilee D. Mead, and Diana Elder 1989 Archaeology, Alluvium, and Cave Stratigraphy: The Record from Bechan Cave, Utah. *Kiva* 54:335-351.
- Alexander, H. C., and P. Reiter
- 1935 The Excavation of Jemez Cave, New Mexico. Monograph of the School of American Research 4. Santa Fe.
- Alexander, Herbert L., Jr. 1963 The Levi Site: A Paleo-Indian Campsite in Central Texas. American Antiquity 28(4):510-528.
- Antevs, Ernst
  - 1953 Artifacts with Mammoth Remains, Naco Arizona II: Age of the Clovis Fluted Points with the Naco Mammoth. *American Antiquity* 19(1):15-17.
  - 1955 Geologic-Climatic Dating in the West. American Antiquity 20(4):317-335.
  - 1959 Geologic Age of the Lehner Mammoth Site. American Antiquity 25(1):31-34.
  - 1962 Late Quaternary Climates in Arizona. American Antiquity 28(2):193-198.
- Ayres, J. E.
  - 1970 Two Fluted Clovis Points from Southern Arizona. The Kiva 35(3):121-124.
- Bamforth, D.
  - 1985 The Technological Organization of Paleo-Indian Small-Group Bison Hunting on the Llano Estacado. *Plains Anthropologist* 30:243-258.

Barnes, Alfred S.

AAS Copyright 2002 Advanced SW Archaeology Revised October 2002 1939 The Differences between Natural and Human Flaking on Prehistoric Flint Implements. American Anthropologist 41(1):99-112.

Bayham, Frank E., D. H. Morris, and M. S. Shackley

- 1986 Prehistoric Hunter-Gatherers of South Central Arizona: The Picacho Reservoir Archaic Project. Anthropological Field Studies No. 13, Department of Anthropology, Office of Cultural Resource Management, Arizona State University, Tempe.
- Beadle, G. W.
  - 1980 The Ancestry of Corn. Scientific American 242(1):112-119.
- Bender, Barbara
  - 1978 Gatherer-Hunter to Farmer: A Social Perspective. World Archaeology 10(2):204-222.

Berry, Claudia F., and Michael S. Berry

- 1986 Chronological and Conceptual Models of the Southwestern Archaic. In Anthropology of the Desert West: Essays in Honor of Jesse D. Jennings, edited by C. J. Conde and D. D. Fowler, pp. 253-327. University of Utah Anthropological Papers, No. 110, University of Utah, Salt Lake City.
- Binford, Lewis R.
  - 1968 Post-Pleistocene Adaptations. In *New Perspectives in Archaeology*, edited by Sally Binford and Lewis R. Binford, pp. 313-341. Aldine, Chicago.
- Bostwick, Todd W. (editor)
  - 1988 An Investigation of Archaic Subsistence and Settlement in the Harquahala Valley. Northland Research, Inc. Flagstaff.
- Bryan, Kirk, and Louis L. Ray
  - 1940 Geologic Antiquity of the Lindenmeier Site in Colorado. Smithsonian Miscellaneous Collections, Volume 99, No. 2. Smithsonian Institution, Washington, D.C.
- Campbell, Elizabeth C., and William C. Campbell 1935 The Pinto Basin Site. Southwest Museum Papers 9, Los Angeles.
- Collins, Michael B.
  - 1990 Observations on Clovis Lithic Technology. Current Research in the Pleistocene 7:73-74.
- Cotter, John
  - 1938 The Occurrence of Flints and Extinct Animals in Pluvial Deposits near Clovis, New Mexico. Proceedings of the Philadelphia Academy of Natural Sciences 90:113-117.
- Crabtree, Don E.
  - 1966 A Stoneworker's Approach to Analyzing and Replicating the Lindenmeier Folsom. *Tebiwa* 9(1).

Danson, Edward B.

AAS Copyright 2002 Advanced SW Archaeology Revised October 2002 1961 Early Man Points from the Vicinity of Sanders, Arizona. *Plateau* 34(2):67-68.

Dick, Herbert 1965 Bat Cave. School of American Research Monograph 27. Santa Fe. Dillehay, Tom D. 1991 Disease Ecology and Initial Human Migration. In The First Americans: Search and Research, edited by Tom D. Dillehay and David J. Meltzer, pp. 231-264. CRC Press, Boca Raton, Florida. Dincauze, D. 1984 An Archaeological Evaluation of the Case for Pre-Clovis Occupations. In Advances in World Archaeology, Volume 3, edited by F. Wendorf and A. Close, pp. 275-323. Academic Press, New York. DiPeso, Charles C. 1953 Clovis Fluted Points from Southeastern Arizona. American Antiquity 19(1):82-85. Downum, Christian E. 1993 Evidence of a Clovis Presence at Wupatki National Monument. Kiva 58(4):487-494. Doyel, David E. 1984 From Foraging to Farming: An Overview of the Preclassic in the Tucson Basin. The Kiva 49:147-165. Eddy, Frank W., and M. E. Cooley 1983 Cultural and Environmental History of Cienega Valley, Southeastern Arizona. University of Arizona Anthropological Papers, No. 43. University of Arizona, Tucson. Euler, Robert C., editor 1983 The Pinto Basin Complex at Grand Canyon, Arizona. The Kiva 49:67-73. 1984 The Archaeology, Geology, and Paleobiology of Stanton's Cave, Grand Canyon National Park, Arizona. Grand Canyon Natural History Association, Grand Canyon, Arizona. Fagan, Brian M. 1987 The Great Journey: The Peopling of Ancient America. Thames and Hudson, New York. Ferg, Alan 1977 The Poor Canyon Scatter: A Cochise Site Near Redington, Arizona. Arizona State Museum Archaeological Series 114, University of Arizona, Tucson. Fiedel, Stuart J. 1992 The Prehistory of the Americas. Second Edition. Cambridge University Press, New York.

REFERENCES (continued)

Fitting, J. E., and T. D. Price. 1968 Two Late Paleo-Indian Sites in Southwestern New Mexico. The Kiva 34(1):1-8.

Flannery, Kent V.

1968 Archaeological Systems Theory and Early Mesoamerica. In Anthropological Archaeology in the Americas, edited by Betty Meggers, pp. 67-87. Anthropological Society of Washington, Washington, D.C.

Flenniken, J. Jeffrey

1978 Reevaluation of the Lindenmeier Folsom: A Replication Experiment. American Antiquity 43:473-480.

Ford, Richard I.

1975 Re-excavation of Jemez Cave, New Mexico. Awanyu 3(3):13-27.

Ford, Richard I. (editor)

1985 Prehistoric Food Production in North America. Museum of Anthropology, Anthropological Paper No. 7513-27.

#### Formby, D. E.

1986 Pinto-Gypsum Complex Projectile Points from Arizona and New Mexico. The Kiva 51:99-127.

Frison, George C.

1968 A Functional Analysis of Certain Chipped Stone Tools. American Antiquity 33(2):149-155.

1978 Prehistoric Hunters of the High Plains. Academic Press, New York.

Frison, George C. (editor)

1974 The Casper Site: A Hell Gap Bison Kill on the High Plains. Academic Press, New York.

Frison, George C., and Bruce A. Bradley

1980 Folsom Tools and Technology at the Hanson Site, Wyoming. University of New Mexico Press, Albuquerque.

#### Gorman, F.

1972 The Clovis Hunter: An Alternate View of their Environment and Ecology. In *Contemporary Archaeology*, edited by M. Leone, pp. 206-221. Southern Illinois University Press, Carbondale.

Grayson, Donald K.

1984 Anthropological Association with Extinct Pleistocene Mammals in North America. *Journal of Archaeological Science* 11:213-221.

Green, F. E.

1963 The Clovis Blades: An Important Addition to the Llano Complex. American Antiquity 29:145-165.

Greenburg, J. H., G. C. Turner II, and S. L. Zegura

1986 The Settlement of the Americas: A Comparison of the Linguistic, Dental, and Genetic Evidence. *Current Anthropology* 27:477-497.

- Gumerman, George J. 1966 A Folsom Point from the Area of Mishongovi, Arizona. *Plateau* 38(4):79-80.
- Guthrie, R. D.
  - 1984 Mosaics, Allelochemics, and Nutrients: An Ecological Theory of Late Pleistocene Megafaunal Extinction. In *Quaternary Extinctions: A Prehistoric Revolution* edited by Paul S. Martin and R. G. Klein, pp. 259-298. University of Arizona Press, Tucson.
- Harrington, Mark R.
  - 1933 Gypsum Cave, Nevada. Southwest Museum Papers, No. 8. Los Angeles.
  - 1961 Tule Springs, Nevada: With Other Evidence of Man in North America. Southwest Museum Papers, No. 18. Los Angeles.
- Haury, Emil W.

1952 The Naco Mammoth. The Kiva 18(3-4):1-19.

- 1953 Artifacts with Mammoth Remains, Naco, Arizona. American Antiquity 19(1):1-14.
- 1956 The Lehner Mammoth Site. The Kiva 21(2-3):23-24.
- 1957 An Alluvial Site on the San Carlos Indian Reservation Arizona. American Antiquity 23(1):2-27.
- 1960 Association of Fossil Fauna and Artifacts of the Sulphur Springs Stage, Cochise Culture. American Antiquity 25:609-610.
- 1975 The Stratigraphy and Archaeology of Ventana Cave. Second Edition. University of Arizona Press, Tucson.
- Haury, Emil W., Ernst Antevs, and J. F. Lance 1953 Artifacts with Mammoth Remains, Naco, Arizona. American Antiquity 19(1):1-24.
- Haury, Emil W., E. B. Sayles, and W. W. Wasley 1959 The Lehner Mammoth Site, Southeastern Arizona. American Antiquity 25(1):2-30

Haynes, C. Vance, Jr.

- 1964 Fluted Projectile Points: Their Age and Dispersion. Science 145(3639):1408-1413.
- 1966 Elephant Hunting in North America. Scientific American 214(6):104-112.
- 1967 Carbon-14 Dates and Early Man in the New World. In *Pleistocene Extinctions: The Search for a Cause*, edited by P.S. Martin and H. E. Wright, pp. 267-286. Yale University.
- 1968 Preliminary Report on the Late Quaternary Geology of the San Pedro Valley, Arizona. Arizona Geological Society Guidebook 3, Contribution 163.
- 1970 Geochronology of Man-Mammoth Sites and their Bearing on the Origin of the Llano Complex. In Pleistocene and Recent Environments of the Central Great Plains, edited by Wakefield Dort, Jr., and J. Knox Jones, Jr., pp. 77-92. Department of Geology Special Publication 3, University of Kansas, Lawrence, Kansas.
- 1981 Geochronology and Paleoenvironments of the Murry Springs Clovis Site, Arizona. National Geographic Society Research Reports, 13:243-251.
- 1982 Were Clovis Progenitors in Beringia? In *Paleoecology of Beringia*, edited by D. Hopkins, J. Matthews, C. Schweger, and S. Young, pp. 383-398. Academic Press, New York.
- 1983 Fluted Points in the East and West. Archaeology of Eastern North America 11:24-27.
- 1987 Clovis Origin Update. The Kiva 52:83-93.
- Haynes, C. Vance, Jr., and G. Agogino
  - 1966 Prehistoric Springs and Geochronology of the Clovis Site, New Mexico. American Antiquity 31(6):812-821.
- Haynes, C. Vance, Jr., D. J. Donahue, A. J. T. Jull, T. H. Zabel 1984 Application of Accelerator Dating to Fluted Point Paleoindian Sites. Archaeology of Eastern North America 12:184-191.
- Haynes, C. Vance, Jr., and E. T. Hemmings 1968 Mammoth-Bone Shaft Wrench from Murry Springs, Arizona. Science 159:186-187.

Hemmings, E. T.

1968 Preliminary Archaeological Report on the Murry Springs Clovis Site, Arizona. Paper presented at the 33rd Annual Meeting of the Society for American Archaeology, State Museum, Santa Fe. Manuscript on file, University of Arizona, Tucson.

Hemmings, E. T., and C. Vance Haynes, Jr.

1969 The Escapule Mammoth and Associated Projectile Points, San Pedro River Valley, Arizona. *Journal of the Arizona Academy of Science* 5(3):184-188.

Hester, James J.

1972 Blackwater Locality No. 1: A Stratified, Early Man site in Eastern New Mexico. Publication of the *Fort Burgwin Research Center 8*. Fort Burgwin Research Center, Ranchos de Taos.

Hester, James J., and James Grady

- 1977 Paleoindian Social Patterns on the Llano Estacado. In *Paleoindian Lifeways*, pp. 78-96. *The Museum Journal*, Volume 17, Lubbock.
- Hibben, Frank C.
  - 1941 Evidences of Early Occupation in Sandia Cave, New Mexico, and Other Sites in the Sandia-Manzano Region. *Smithsonian Institution Miscellaneous Collections* 99(3):1-44.
  - 1946 The First Thirty-eight Sandia Points. American Antiquity 11(2):257-258.
  - 1955 Specimens from Sandia Cave and their Possible Significance. *Science* 122:688-689.

Hohmann, John W., and John A. Hotopp (editors)

- 1990 Of Blood and Stone: Investigations into Southeastern Utah Archaic - Phase III Archaeological Investigations Along US 191, San Juan County, Utah. *Studies in Western Archaeology Number 2*. Culture Resource Group, Louis Berger & Associates, Phoenix.
- Holliday, V. T., and E. Johnson

1986 Reevaluation of the First Radiocarbon Age for the Folsom Culture. American Antiquity 51:332-338.

- Hopkins, D. M. (editor) 1967 The Bering Land Bridge. Stanford University Press, Stanford.
- Howard, Edgar B.
  - 1935 Evidences of Early Man in North America. *Museum Journal*, Volume 24, No. 2-3, University Museum, University of Pennsylvania, Philadelphia.
  - 1935 Occurrence of Flints and Extinct Animals in Pluvial Deposits Near Clovis, New Mexico, Part 1, Introduction. *Proceedings*, *Philadelphia Academy of National Sciences*, 87:299-303.

Huckell, Bruce B.

- 1972 The Double Adobe Mammoth: 1970 Excavations along Whitewater Draw. Report: Dr. E. H. Lindsay, *Geosciences*.
- 1973 The Gold Gulch Site: A Specialized Cochise Site Near Bowie, Arizona. The Kiva 39:105-129.
- 1973 The Hardt Creek Site. The Kiva 39:171-197.
- 1979 Of Chipped Stone Tools, Elephants, and the Clovis Hunter: An Experiment. *Plains Anthropologist* 24:177-189.
- 1982 The Distribution of Fluted Points in Arizona: A Review and Update. Archaeological Series No. 145. Arizona State Museum, University of Arizona, Tucson.
- 1984 The Paleo-Indian and Archaic Occupation of the Tucson Basin: An Overview. The Kiva 49:133-145.
- 1984 The Archaic Occupation of the Rosemont Area, Northern Santa Rita Mountains, Southeastern Arizona. Archaeological Series No. 147(1). Arizona State Museum, University of Arizona, Tucson.
- 1988 Late Archaic Archaeology of the Tucson Basin: A Status Report. In Recent Research on Tucson Basin Prehistory: Proceedings of the Second Tucson Basin Conference, Edited by William H. Doelle and Paul R. Fish, pp. 57-80. Anthropological Paper No. 10. Institute for American Research, Tucson.
- 1990 Late Preceramic Farmers-Foragers in Southern Arizona: A Cultural and Ecological Consideration of the Spread of Agriculture in the Arid Southwestern United States. Unpublished Ph.D. dissertation, Department of Anthropology, University of Arizona, Tucson.
- Hunt, A. P., and D. Tanner
  - 1960 Early Man Sites Near Moab, Utah. American Antiquity 26(1):110-117.
- Irwin-Williams, Cynthia
  - 1967 Picosa: the Elementary Southwestern Culture. American Antiquity 32(4):441-457.
  - 1967 Associations of Early Man with Horse, Camel, and Mastodon at Hueyatlaco, Valsequillo (Puebla, Mexico). In *Pleistocene Extinctions: The Search for a Cause*, edited by Paul S. Martin and Herbert E. Wright, Jr., pp. 337-350. Yale University Press, New Haven, Connecticut.
  - 1968 Configurations of Preceramic Development in the Southwestern United States. *Eastern New Mexico University Contributions in Anthropology* 1(1):1-9. Portales, New Mexico.

#### Irwin-Williams, Cynthia

- 1968 The Reconstruction of Archaic Culture in the Southwestern United States. *Eastern New Mexico University Contributions in Anthropology* 1(3):19-23. Portales, New Mexico.
- 1968 Archaic Culture History in the Southwestern United States. *Eastern New Mexico University Contributions in Anthropology* 1(4):48-54. Portales, New Mexico.
- 1973 The Oshara Tradition: Origins of Anasazi Culture. *Eastern New Mexico University Contributions in Anthropology* 5(1). Portales, New Mexico.
- 1979 Post-Pleistocene Archaeology, 7000-2000 B.C. In Southwest, edited by Alfonso Ortiz, pp. 31-42. Handbook of North American Indians (Volume 9). Smithsonian Institution, Washington, D.C.
- Irwin-Williams, Cynthia (editor)
  - 1968 Early Man in Western North America. *Eastern New Mexico University Contributions in Anthropology* 1(4):48-53, Portales, New Mexico.

Irwin-Williams, Cynthia, and C. Vance Hayes, Jr.

1970 Climatic Change and Early Population Dynamics in Southwestern United States. *Quaternary Research* 1(1):59-71.

- James, Steven R.
  - 1990 Monitoring Archaeofaunal Changes During the Transition to Agriculture in the American Southwest. *Kiva* 56:25-43.
- Jennings, Jesse D. 1957 Danger Cave. Society for American Archaeology Memoir 14.
  - 1964 The Desert West. In *Prehistoric Man in the New World*, edited by J. D. Jennings and E. Norbeck, pp. 149-174. University of Chicago Press, Chicago.
  - 1974 Prehistory of North America. 2nd edition. McGraw-Hill, New York.
  - 1980 Cowboy Cave. University of Utah Anthropological Paper No. 104. Salt Lake City.
- Jennings, Jesse D., Alan R. Schroedl, and Richard N. Holmer 1980 Sudden Shelter. University of Utah Anthropological Paper No. 103. Salt Lake City.

Jones, Bruce A.

1990 Paleoindians and Proboscideans: Ecological Determinants of Selectivity in the Southwestern United States. In *Hunters of the Recent Past*, edited by Leslie B. Davis and Brian O. K. Reeves, pp. 68-85. Umwin Hyman, London. Judge, W. James

- 1973 PaleoIndian Occupation of the Central Rio Grande Valley in New Mexico. University of New Mexico Press, Albuquerque.
- 1982 The Paleo-Indian and Basketmaker Periods: An Overview and Some Research Problems. In *The San Juan Tomorrow*, edited by Fred Plog and W. Wait, pp. 5-57. National Park Service, Southwest Region, Santa Fe.
- Judge, W. James, and Jerry Dawsom 1972 PaleoIndian Settlement Technology in New Mexico. Science 176:1210-1216.
- Kelly, Robert L. 1983 Hunter-Gatherer Mobility Strategies. Journal of Anthropological Research 39(3):277-306.

Kelly, Robert L., and Lawrence C. Todd 1988 Coming into the Country: Early Paleoindian Hunting and Mobility. American Antiquity 53(2):231-244.

Kelly, Roger E

1966 Split-twig Figurines from Sycamore Canyon, Central Arizona. Plateau 38(3):65-67.

Lambert, M. G., and J. R. Ambler

1961 A Survey and Excavation of Caves in Hidalgo County, New Mexico. School of American Research, Monograph No. 25, Santa Fe.

- Lynch, Thomas F.
  - 1990 Glacial-age Man in South America? A Critical Review. American Antiquity 55(1):12-36.

McClung DeTapia, Emily

1992 The Origins of Agriculture in Mesoamerica and Central America. In *The Origins of Agriculture*, edited by C. Wesley Consan and Patty Jo Watson, pp. 143-172. Smithsonian Institution Press, Washington D.C.

McGuire, Randall H.

1982 Problems in Culture History. In *Hohokam and Patayan: Prehistory* of Southwestern Arizona, edited by Randall H. McGuire and Michael B. Schiffer, pp. 153-222. Academic Press, New York.

McGuire, Randall H., and Michael B. Schiffer

1982 The Study of Cultural Adaptations. In *Hohokam and Patayan: Prehistory of Southwestern Arizona*, edited by Randall H. McGuire and Michael B. Schiffer, pp. 223-274. Academic Press, New York.

MacNeish, Richard S.

- 1964 The Origins of New World Civilization. *Scientific American* 211(5):29-37.
- 1971 Speculation About How and Why Food Production and Village Life Developed in the Tehaucan Valley, Mexico Archaeology 24(4):307-315.
- 1978 Late Pleistocene Adaptions: A New Look at Early Peopling of the New World as of 1976. *Journal of Anthropological Research* 34(4):475-496.

MacNeish, Richard S., and Patrick H. Beckett

- 1987 The Archaic Chihuahua Tradition. *Monograph Series, No.* 7, COAS Publishing Co. Las Cruces.
- Mangelsdorf, Paul C.
  - 1974 Corn: Its Origin, Evolution, and Improvements. Harvard University Press, Cambridge.
- Martin, Paul Schultz
  - 1963 The Last 10,000 Years: A Fossil Pollen Record of the American Southwest. University of Arizona Press, Tucson.
  - 1967 Prehistoric Overkill. In *Pleistocene Extinction: The Search for a Cause*, edited by Paul S. Martin and H. E. Wright, Jr., pp 75-120. Proceedings of the VII Congress of the International Association for Quaternary Research, Vol. 6. Yale University Press, New Haven.
- Matson, Richard G.
  - 1991 The Origins of Southwestern Agriculture. The University of Arizona Press, Tucson.
- Mehringer, P. J., Jr., and C. Vance Haynes, Jr.
  - 1965 The Pollen Evidence for the Environment of Early Man and Extinct Mammals at the Lehner Mammoth Site, Southeastern Arizona. American Antiquity 31(1):17-23.
- Mehringer, P. J., Jr., P. S. Martin, and C. Vance Haynes, Jr. 1967 Murry Springs, a Mid-Postglacial Pollen Record from Southern Arizona. American Journal of Science 265:786-797.
- Meltzer, David J.
  - 1989 Why Don't We Know When the First People came to north America? American Antiquity 54(3):471-490.
    - 1991 On "Paradigms" and "Paradigm Bias" in Controversies Over Human Antiquity in America. In *The First Americans: Search and Research*, edited by Tom D. Dillehay and David J. Meltzer, pp. 13-52. CRC Press, Boca Raton, Florida.

## Minnis, Paul L.

1992 Earliest Plant Cultivation in the Desert Borderlands of North America. In *The Origins of Agriculture*, edited by C. Wesley Cowan and Patty Jo Watson, pp. 121-142. Smithsonian Institution Press, Washington, D.C.

## Morris, Elizabeth

1983 The Status of Archaic Period Sites in the Anasazi Area. In Proceedings of Anasazi Symposium, 1981, edited by Jack Smith, pp. 69-71.

## Musil, Robert R.

1988 Functional Efficiency and Technological Change: A Hafting Tradition Model for Prehistoric North America. In Early Occupation in Far Western North America: The Clovis-Archaic Interface, edited by Judith A. Willig, C. Melvin Aikens, and John L. Fagan, pp. 373-387. Nevada State Museum, Carson City.

## Myers, Richard D.

1967 The Folsom Point from the Rising Site, Southeast Arizona. The Kiva 32(3):102-105.

#### Myers, Thomas P.

1976 Fluted Points from the Sulphur Springs Valley, Cochise County, Arizona. The Kiva 42(2):209-213.

#### Olson, Alan

1966 Split-twig Figurines from NA 5607, Northern Arizona. *Plateau* 38(3):55-64.

#### Olsen, Stanley J.

1990 Was Early Man in North America a Big Game Hunter? In *Hunters of the Recent Past*, edited by Leslie B. Davis and Brian O. K. Reeves, pp. 103-110. Unwin Hyman, London.

Roberts, Frank H. H., Jr.

- 1935 A Folsom Complex. Smithsonian Miscellaneous Collections 94(4).
- 1936 Additional Information on the Folsom Complex. Smithsonian Miscellaneous Collections 95(10).
- 1938 The Folsom Problem in American Archaeology. Annual Report of the Smithsonian Institution, pp. 531-546. U.S. Government Printing Office, Washington, D.C.

### Rogers, Malcom J.

- 1939 Early Lithic Industries of the Lower Basin of the Colorado River and Adjacent Desert Areas. San Diego Museum Papers, No. 3. San Diego.
- 1966 Ancient Hunters of the Far West. The Union-Tribune Publishing Company, San Diego.

Roosa, William B.

1956 The Lucy Site in Central New Mexico. American Antiquity 21(3):310-323.

- Roper, Donna C.
  - 1989 Grinding Stones in Plains Paleoindian Sites: The Case for Pigment Processing. *Current Research in the Pleistocene* 6:36-37.
- Roth, Barbara J.
  - 1988 Recent Research on the Late Archaic Occupation of the Northern Tucson Basin. In Recent Research on Tucson Basin Prehistory: Proceedings of the Second Tucson Basin Conference, Edited by William H. Doelle and Paul R. Fish, pp. 81-107. Anthropological Paper No. 10. Institute for American Research, Tucson.
  - 1992 Sedentary Agriculturalists or Mobile Hunter-Gatherers? Evidence on the Late Archaic Occupation of the Northern Tucson Basin. *Kiva* 57:291-314.
  - 1993 A Clovis Point from East-central Arizona. Kiva 58(4):495-498.
  - 1993 Changing Perceptions of the Late Archaic: An Example from the Southern Southwest. North American Archaeologist 14(2):123-137.

Roth, Barbara J., and Bruce B. Huckell 1992 Cortaro Points and the Archaic of Southern Arizona. *Kiva* 57:353-370.

- Sayles, E. B.
  - 1983 The Cochise Cultural Sequence in Southeastern Arizona. Anthropological Papers No. 42. University of Arizona, Tucson.
- Sayles, E. B., and Ernst Antevs 1941 The Cochise Culture. *Medallion Papers XXIX*. Gila Pueblo, Globe.
- Schaafsma, Polly
  - 1980 Hunters and Gatherers. In *Indian Rock Art of the Southwest*, by Polly Schaafsma, pp. 33-80. School of American Research, Santa Fe.
- Schroedl, Alan R. 1977 The Grand Canyon Figurine Complex. American Antiquity 42:254-265.
  - 1977 The Paleo-Indian Period on the Colorado Plateau. Southwestern Lore 43(3):1-9.
- Shoshani, Jeheskel
  - 1990 Distribution of *Mammut americanum* in the New World. *Current Research in the Pleistocene* 7:124-126.

Simmons, Alan H.

1986 New Evidence for the Early Use of Cultigens in the American Southwest. American Antiquity 51:73-89.

Smith, Bruce D.

- 1992 Prehistoric Plant Husbandry in Eastern North America. In *The Origins of Agriculture*, edited by C. Wesley Cowan and Patty Jo Watson, pp. 101-120. Smithsonian Institution Press, Washington, D.C.
- Speth, John D.
  - 1990 The Study of Hunter-Gatherers in the American Southwest: New Insights from Ethnology. In *Perspectives on Southwestern Prehistory*, edited by Paul E. Minnis and Charles L. Redman, pp. 15-25. Westview Press, Boulder.
- Stanford, Dennis J., and James S. Day (editors)
  - 1992 Ice Age Hunters of the Rockies. Denver Museum of Natural History, Denver, and University Press of Colorado, Niwot, Colorado.
- Taylor, R. E.
  - 1991 Frameworks for Dating the Late Pleistocene Peopling of the Americas. In *The First Americans: Search and Research*, edited by Tom D. Dillehay and David J. Meltzer, pp. 77-111. CRC Press, Boca Raton, Florida.

Taylor, R. E., L. A. Payen, C. A. Prior, P. J. Slota, Jr., R. Gillespie, J. A. J. Gowlett, R. E. M. Hedges, A. J. T. Jull, T. H. Zabel, D. J. Donahue, and R. Berger

- 1985 Major Revisions in the Pleistocene Age Assignments for North American Human Skeletons by C-14 Accelerator Mass Spectrometry: None Older than 11,000 C-14 Years B.P. American Antiquity 50(1):136-140.
- Toth, Nicholas
  - 1991 The Material Record. In *The First Americans: Search and Research*, edited by Tom D. Dillehay and David J. Meltzer, pp. 53-76. CRC Press, Boca Raton, Florida.

Turner, Christy G., II

- 1985 The Dental Search For Native American Origins. In Out of Asia, Peopling the Americas and the Pacific, edited by Robert Kirk and Emoke Szathmary, pp.31-78. *Journal of Pacific History*, Canberra, Australia.
- 1986 The First Americans: The Dental Evidence. National Geographic Research 2(1):37-46.
- 1992 New World Origins: New Research from the Americas and the Soviet Union. In *Ice Age Hunters of the Rockies*, edited by Dennis J. Stanford and James S. Day, pp. 7-50. Denver Museum of Natural History, Denver, and University Press of Colorado, Niwot, Colorado.

Vierra, Bradley J.

1990 Archaic Hunter-Gatherer Archaeology in Northwestern New Mexico. In *Perspectives on Southwestern Prehistory*, edited by Paul E. Minnis and Charles L. Redman, pp. 57-67. Westview Press, Boulder.

Wallace, Henry D., and James P. Holmlund

- 1986 Petroglyphs of the Picacho Mountains, South Central Arizona. Institute for American Research Anthropological Papers No. 6. Tucson.
- Warren, Claude N.
  - 1967 The San Dieguito Complex: A Review and Hypothesis. American Antiquity 32(2):168-185
- Warren, Claude N., and D. L. True
  - 1961 The San Dieguito Complex and its Place in California Prehistory. In University of California Archaeological Survey Annual Report, 1960-1961, pp. 246-338. Department of Anthropology, University of California, Los Angeles.
- Waters, Michael R.
  - 1990 Late Quaternary Alluvial Stratigraphy and Early Holocene Archaeology of Whitewater Draw, Arizona. In Archaeological Geology of North America, edited by Norman P. Lasca and Jack Donahue, pp. 315-322. Geological Society of America, Boulder.

Wendorf, Fred, and Tully Thomas

1951 Early Man Sites Near Concho, Arizona. American Antiquity 17(2):107-114.

Whalen, Norman M.

- 1973 Agriculture and the Cochise. The Kiva 39:89-96.
- 1975 Cochise Site Distribution in the San Pedro Valley. The Kiva 40:203-211.

White, James M., Rolf W. Mathewes, and William H. Mathews

1985 Late Pleistocene Chronology and Environment of the "Ice-Free Corridor" of Northwestern Alberta. *Quaternary Research* 24(2):173-186.

Whitley, David S., and Ronald I. Dorn
1993 New Perspectives on the Clovis Vs. Pre-Clovis Controversy.
American Antiquity 58(4):626-647.

Wills, Wirt Henry, III

1988 Early Prehistoric Agriculture in the American Southwest. School of American Research Press, Santa Fe.

AAS Copyright 2002 Advanced SW Archaeology Revised October 2002 Tab 5, Page 20

Wheat, Joe Ben 1967 A Paleo-Indian Bison Kill. Scientific American 216(1):44-52.

1990 Cultivating Ideas: The Changing Intellectual History of the Introduction of Agriculture in the American Southwest. In *Perspectives on Southwestern Prehistory*, edited by Paul E. Minnis and Charles L. Redman, pp. 319-331. Westview Press, Boulder.

Wilmsen, Edwin N., and Frank H. H. Roberts, Jr.

1984 Lindenmeier, 1934-1974: Concluding Report on Investigations. Smithsonian Contributions to Anthropology 24. Reprinted. Smithsonian Institution Press, Washington. Originally published 1978, Government Printing Office, Washington.

Windmiller, Ric

- 1971 Early Hunters and Gatherers in Southeastern Arizona. The Cochise Quarterly 1(2):3-15.
- 1973 The Late Cochise Culture in the Sulphur Springs Valley, Southeastern Arizona: Archaeology of the Fairchild Site. *The Kiva* 39:131-169.
- Windmiller, Ric, and Bruce B. Huckell 1973 Desert Culture Sites Near Morman Lake, Northern Arizona. The Kiva 39:199-211.
- Wilmsen, Edwin N.
  - 1970 Lithic Analysis and Cultural Inference: A Paleo-Indian Case. Anthropological Papers No. 42. University of Arizona, Tucson.
- Woodbury, Richard B., and Ezra B. W. Zubrow
  - 1979 Agricultural Beginnings, 2000 B.C.-A.D. 500. In Southwest, edited by Alfonso Ortiz, pp. 43-60. Handbook of North American Indians (Volume 9). Smithsonian Institution, Washington, D.C.
- Wormington, H. Marie
  - 1957 Ancient Man in North America. Fourth revised edition. Denver Museum of Natural History Popular Series, No. 4, Denver.
  - 1961 Prehistoric Indians of the Southwest. Denver Museum of Natural History Popular Series, No. 7, Denver.

Zubrow, Ezra B. W.

1972 Carrying Capacity and Dynamic Equilibrium in the Prehistoric Southwest. In *Contemporary Archaeology*, edited by M. Leone, pp. 268-279. Southern Illinois University Press, Carbondale.

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