

CURRICULUM VITA
of
Joe Alan Artz

PERSONAL

Birth: August 15, 1954, Wellington, Kansas
 Family Status: Married with two children
 Education: BA (Anthropology), University of Kansas, 1976
 MA with honors (Anthropology), University of Kansas, 1983
 Current Position: Geographic Information Coordinator
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Participation in GIS-Related Grant-Sponsored Research

1998-present	Geoarchaeological and GIS consulting projects in Iowa as well as Illinois, Minnesota, Missouri, and North and South Dakota. Various agencies and contracting firms.	\$130,000
2004-2005	Settlement Pattern Analysis of Stone Feature Locations, Mercer County, Iowa. Subcontractor to Ethnoscience Inc, Billings, MT	\$33,500
2004-2005	Decision Support Model for Assessing Archaeological Survey Needs for Bridge Replacement Projects in Iowa. Iowa Highway Research Board	\$50,000
2002-2004	GIS Specialist, STATEMAP surficial geological mapping of Iowa. Subcontractor to Iowa Geological Survey	\$15,000
2003-2005	Director, LANDMASS: A Statewide Landscape Model for Archaeological Site Suitability for Iowa. Federal Highway Administration, Transportation Enhancement funding.	\$220,000
2001-2003	GIS specialist. Archaeological predictive models for proposed rural water projects in central and western Iowa. Contracts from USDA-Rural Development.	\$14,000
2001	Archaeological site locations with respect to environmental variables within Iowa's State Preserves System. Grant from Iowa State Preserves Board.	\$3,200
2001	Geoarchaeological landform sediment assemblage model development for the Chichiqua Wildlife Area, Polk and Jasper Counties, IA. Contract from Iowa Department of Natural Resources.	\$9,975
2000-2001	Co-Director, I-Sites: Developing a Web-Enable GIS	\$33,000

	and Database for Iowa Archaeology. Awarded by National Center for Preservation Training and Technology.	
2000	GIS Specialist, Analysis of Archaeological Survey Bias Assessment, Fort Bragg, North Carolina. Subcontract to Illinois State Museum Society, Springfield, Illinois. Contract total.	\$9,600
2000	GIS Specialist, Development of Archaeological Sites Layer for Loess Hills Planning Study. Subcontract to Iowa Department of Natural Resources. Contract total: \$4,816.	\$4,800
1999-2001	Co-Director, Creation of Iowa Cultural Resources GIS. Subcontract to State Historical Society of Iowa.	\$214,000.
1999-2000	GIS Specialist, Cultural Affiliations of Effigy Mounds, Northeast Iowa. Contract with National Park Service.	\$29,000
TOTAL		\$766,075.

GIS-Related Workshops and Short Courses

- NASA-sponsored Remote Sensing Workshop: Mid-American GIS Symposium, May 15, 2000
- A Practical Guide to Metadata Implementation for GIS/LIS Professionals: Teleconference coordinated by University of Wisconsin, Madison, Spring, 1997
- GIS Implementation and Management: MidAmerica GIS Symposium, Lincoln, NE, May, 1998
- Integrating Transportation Information Systems: Iowa Department of Transportation, Ames, IA, September 3, 1998
- Understanding and Applying Digital Soil Survey Information; GIS in Transportation: Iowa GIS User's Conference, Storm Lake, Iowa, July 28, 1999

GIS-Related Software Experience

- 8 years experience with ArcView GIS including Spatial Analyst, 3D Analyst, and Avenue
- 5 years experience with Microsoft Access
- 18 years experience with database functions of Lotus 123 and Microsoft Excel
- 5 years SQL and ODBC connections between ArcView and Access
- 4 years experience with Active Server Pages (ASP).

Web Sites Developed

- Ackmore to Zwingle: Soil Series of Iowa: <http://www2.uiowa.edu/landmass/soilseries.htm>
- I-Sites: An On-Line GIS and Database for Iowa Archaeology: <http://www2.uiowa.edu/i-sites/pro>
- GIS@OSA: http://www.uiowa.edu/~osa/GIS_at_OSA
- Plains Anthropological Society: <http://www.uiowa.edu/~osa/plainsanth>
- Geoarchaeology in Iowa: <http://www.uiowa.edu/~osa/geo/geo.htm>

Archaeological Experience

Field Experience

2000-present Geoarchaeological consultant on archaeological projects throughout Iowa.

1989-1999 Archaeological survey and excavation, and geoarchaeological consultation on projects throughout Iowa, under contract with Iowa Department of Transportation.

1988 (June). Director of four small archeological survey projects in eastern North Dakota. Funded by various state and federal agencies.

1988 (May). Crew chief, test excavation at rock art sites in Pinon Canyon Maneuver Site, southeastern Colorado. Funded by U.S. Department of Defense. Principal investigator, Dr. Larry Loendorf, University of North Dakota.

- 1987 (July). Private consultant, geomorphological evaluation of 32DU336, Halliday, North Dakota. Funded by Soil Conservation Service.
- 1987 (April-June). Project director, archeological testing along the Southwest Water Pipeline, southwestern North Dakota. Funded by North Dakota State Water Commission and U.S. Bureau of Reclamation. Co-principal investigator with Loendorf, University of North Dakota.
- 1986-1987 (April-September) Project director, archeological survey and testing along the Southwest Water Pipeline, southwestern North Dakota. Funded by North Dakota State Water Commission. Co-principal investigator with Loendorf, University of North Dakota.
- 1985 (July) Project director of archeological survey of proposed flood prevention project at Halliday, North Dakota. Funded by Soil Conservation Service. Co-principal investigator with Loendorf, University of North Dakota.
- 1985 (April-June) Project director of archeological site testing along proposed Southwest Pipeline, Dunn and Mercer counties, North Dakota. Funded by North Dakota State Water Commission. Co-principal investigator with Loendorf, University of North Dakota.
- 1984 (September-October) Assistant field director and project geomorphologist for archeological survey of west bank of Lake Oahe, South Dakota. Funded by U. S. Army Corps of Engineers. Principal investigators, Mr. Dennis Toom and Ahler, University of North Dakota.
- 1984 (September) Field director of geological coring of sloughs in Dunn County, North Dakota. Funded by National Park Service and University of North Dakota through the State Historical Society of North Dakota and University of North Dakota. Principal investigator, Ahler, University of North Dakota.
- 1984 (July-August) Crew chief, conducting test excavations in the Knife River flint quarry areas of Dunn County, North Dakota. Funded by National Park Service and University of North Dakota through State Historical Society of North Dakota and University of North Dakota. Principal investigator, Ahler, University of North Dakota.
- 1984 (June) Principal investigator, directing archeological reconnaissance of selected areas potentially effected by proposed flood control works in East Grand Forks, Minnesota. Funded by U.S. Army Corps of Engineers.
- 1982 (September-October) Field director of test excavations in Montour Valley (Payette River), Gem County, Idaho. Funded by U.S. Bureau of Reclamation. Principal investigator, Dr. Alan H. Simmons, University of Kansas.
- 1982 (June-August) Field director of excavations at Early Caddoan and multiple component Late Archaic sites in Copan Lake area (Little Caney River), Oklahoma. Funded by U.S. Army Corps of Engineers. Principal investigator, Dr. Kenneth C. Reid, University of Tulsa.
- 1982 (February-March) Field director of testing program to assess impact of shoreline erosion on archeological sites at Kaw Lake (Arkansas River), Oklahoma. Funded by U.S. Army Corps of Engineers. Principal investigator, Reid, University of Tulsa.
- 1981 (June-September) Geomorphologist, investigating Late Holocene soil stratigraphy of Copan Lake (Little Caney River) and Shidler Lake (upper Salt Creek), northeastern Oklahoma. Funding from U.S. Army Corps of Engineers. Principal investigator, Reid, University of Tulsa.
- 1981 (April-May) Assistant to geomorphologist/pedologist, Pulltrouser Swamp Project, Belize. Soil-geomorphological field survey contributing to study of Lowland Maya raised field agriculture and associated settlement systems. Funding from National Science Foundation. Principal investigator, Dr. Peter D. Harrison, University of New Mexico.
- 1980 (June-August) Project director of Class II archeological survey of pipeline corridors in western South Dakota. Funded by South Dakota Department of Water and Natural Resources and CH2M-Hill, Inc., Denver, Colorado. Principal investigator, Robert A. Alex, State Archeologist, South Dakota Archeological Research Center.
- 1979 (July-August) Crew chief, directing excavation of 14BU4, a multiple component site in El Dorado Lake area (upper Walnut River), Butler County, Kansas. Funded by U.S. Army Corps of Engineers. Principal investigator, Dr. Alfred E. Johnson, University of Kansas.
- 1978 (June-August) Crew chief, directing test excavations in El Dorado Lake area, Butler County, Kansas. Funded by U.S. Army Corps of Engineers. Principal investigator, Johnson, University of Kansas.
- 1978 (Spring) Field assistant, site survey in Kansas City International Airport environs. Funded by Kansas City International Airport. Principal investigator, Johnson, University of Kansas.

- 1977 (August) Laborer. Site survey, El Dorado Lake area, Butler County, Kansas. Funded by U.S. Army Corps of Engineers. Principal investigator, Johnson, University of Kansas.
- 1977 (May-July) Field assistant. Test excavations along Little Blue River, northeast Missouri. Funded by U.S. Army Corps of Engineers. Principal investigator, Johnson, University of Kansas.
- 1976 (August-October) Laborer. Test excavations in Cedar Point Lake area, Chase County, Kansas. Funded by U.S. Army Corps of Engineers. Principal investigator, Thomas A. Witty, Kansas State Historical Society.

Research and Laboratory Experience

- 2000 through present: Geographic Information Coordinator, Office of the State Archaeologist, University of Iowa. Director of Iowa Site File (statewide archaeological site inventory) and staff geoarchaeologist.
- 2000 GIS specialist investigating archaeological survey bias at Fort Bragg, North Carolina.
- 1999-2000 GIS specialist for study of Effigy Mounds National Monument, Iowa.
- 1999-2001 Co-principal investigator with Stephen Lensink of grant-funded effort to develop a GIS for Iowa archaeological sites.
- 1989 (October) through 1998. Project Archaeologist, Highway Archaeology Program, Office of the State Archaeologist, University of Iowa. Archaeological research and reporting for projects throughout Iowa.
- 1985 (April) through 1989 (October). Associate Research Archeologist, Department of Anthropology, University of North Dakota. Archeological research, reporting, and administrative responsibilities for various projects in North Dakota.
- 1983-1985 (September-April) Assistant Research Archeologist, Department of Anthropology, University of North Dakota. Archeological and geoarchaeological research and reporting on various projects in western North Dakota, Minnesota, and South Dakota.
- 1982-1983 (November-August) Research archeologist, Department of Anthropology, University of Tulsa. Analysis and reporting of archeological and geoarchaeological data from various projects in northeastern Oklahoma.
- 1982-1983 (November-May) Research assistant, Museum of Anthropology, University of Kansas. Analysis and reporting of excavated assemblages from Montour Valley, Idaho. Accomplished in residence at the University of Tulsa.
- 1981-1982 (October-January) Research assistant, Department of Geography / Meteorology, University of Kansas. Laboratory technician in soils and palynology laboratory; analysis of soil samples from Pulltrouser Swamp, Belize.
- 1980-1981 (September-May) Research assistant, Department of Geography / Meteorology, University of Kansas. Laboratory technician in soils and palynology laboratory; mechanical and chemical analysis of soils; pollen extraction.
- 1979-1980 (September-May) Research assistant, El Dorado Lake project, Museum of Anthropology, University of Kansas. Analysis and reporting of excavated assemblages; pedologic and fluvial geomorphic studies.
- 1978-1980 (intermittent) Research consultant to South Dakota State Archaeological Research Center, Fort Meade, South Dakota. Identification and analysis of archeological avifaunas from South Dakota archeological sites; performed in residence at the University of Kansas.
- 1978-1979 (September-May) Research assistant, Museum of Anthropology, University of Kansas. Analysis and reporting of archeological investigations from sites in eastern Kansas and northeastern Missouri.
- 1977 (September-December) Research assistant, Museum of Anthropology, University of Kansas. Analysis of assemblages from Jackson County, northeastern Missouri.
- 1975-1976 (September-May) Laboratory assistant, Museum of Anthropology, University of Kansas. Processing and analysis of archeological materials; mechanical and chemical analysis of soils.
- 1975 (January-May) Undergraduate research. Analysis of lithic artifacts from a Middle Woodland site in Miami County, Kansas.

SUMMARY OF PROFESSIONAL SKILLS

- 1) Using geographic information systems for spatial data analysis and digital cartography.
- 2) Field techniques in fluvial geomorphology, soil-geomorphology, and pedology.

- 3) Establishing and conducting programs for the analysis and reporting of archeological and geomorphological field investigations.
- 4) Supervisory experience in conducting archeological survey, test excavation and block excavation.
- 5) Use of personal computers in geographic information systems (ArcView), web page development (Microsoft Frontpage, ASP, HTML), data base management (Excel, Access), report production (Microsoft Word), and graphics (Corel-Draw)
- 6) Analysis of prehistoric and historic artifacts.
- 7) Laboratory techniques in mechanical and chemical analysis of soils.

RESEARCH INTERESTS

- GIS applications in archaeology and cultural resource management;
- Hunter-gatherer settlement/subsistence systems.
- Database-driven website development.
- Human response to Holocene environmental change on the Great Plains;
- Holocene stratigraphy and paleoenvironments, application of pedology and geology to archeological site interpretation;
- History of archaeology;

PUBLICATIONS AND SELECTED UNPUBLISHED REPORTS

- 2006 (with Chad A. Goings) Appendix A: Geospatial and Morphological Analysis of Stone Feature Data from the West Mine Area, Coteau Properties, Mercer County, North Dakota. Office of the State Archaeologist, University of Iowa. Submitted to Ethnoscience, Inc., Billings, Montana.
- 2006 (with Peterson, Cynthia L.) *Phase IA Archaeological Reconnaissance, Archaeological Context Development, and Geoarchaeological Assessment of the Proposed South Ottumwa Phase I Sewer Separation Project, City of Ottumwa, Wapello County, Iowa*. Contract Completion Report 1366 Office of the State Archaeologist, University of Iowa, Iowa City.
- 2006 (with Peterson, Cynthia L., and Adam Newman) *Phase I Intensive Archaeological Survey of the Proposed Saylorville Water Treatment Plant Facility Area, City of Des Moines, Polk County, Iowa*. Contract Completion Report 1337 Office of the State Archaeologist, University of Iowa, Iowa City.
- 2005 (with Chad A. Goings) *Phase IA Archaeological Survey of the Proposed Midwest Manufacturing RISE Application Area in Pottawattamie and Shelby Counties, Iowa*. Contract Completion Report 1355. Office of the State Archaeologist, University of Iowa, Iowa City.
- 2005 (with Cindy L. Nagel and Cynthia Peterson) *Archaeological and Geomorphological Investigation of the MidAmerican Energy Water Street Distribution Line Utility Relocation Project, City of Des Moines, Polk County, Iowa*. Contract Completion Report 1164. Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.
- 2005 (with Cynthia L. Peterson) *Geomorphological and Historical Background Investigation at the Proposed Riverpoint West Detention Basins, City of Des Moines, Polk County, Iowa*. Contract Completion Report 1249. Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.
- 2005 (with Nagel, Cindy L., and Cynthia L. Peterson) *Archaeological and Geomorphological Investigation of the MidAmerican Energy Water Street Distribution Utility Relocation Project, City of Des Moines, Polk County, Iowa*. Contract Completion Report 1164. Office of the State Archaeologist, University of Iowa, Iowa City.
- 2005 (with Peterson, Cynthia and Lisa J. Kelley) *Phase I Archaeological and Geomorphological Investigation for the Proposed Four Mile Creek Interceptor Extension, Broadway to Corporate Woods Drive, Polk County, Iowa*. Contract Completion Report 1248. Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.
- 2005 (with Whittaker, William E.) *Phase II Archaeological Excavations at Sites 11RI769 and 11RI770, College Hills Subdivision., Rock Island, Illinois*. Contract Completion Report 1297. Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.
- 2005 Geomorphology and Alluvial Stratigraphy at 32MO390. In Phase III Archaeological Mitigation of Site 32MO390, Morton County, North Dakota. Louis Berger Group, Marion, Iowa.

- 2005 The Geomorphology and Alluvial Stratigraphy of Lower Otter Creek, Morton County, North Dakota. In *Archaeological Evaluation of Sites 32MO300, 32MO1374, and 32MO1375, Square Butte Creek Watershed Dam Site No. 6, Morton County, North Dakota*. Louis Berger Group, Marion, Iowa.
- 2004 (with Joe McFarlane, Michael Madson, Teresa Halloran) *Phase I Archaeological Survey of the TriCenter Regional Water Association School Metering Pit, Proposed Booster Station and Elevated Tower Sites Within Portions of Shelby and Harrison Counties, Iowa*. Loucks Associates, Minneapolis, Minnesota.
- 2004 (with David J. Stephenson) *Phase I Intensive Archaeological and Geomorphological Survey of a Proposed Sand and Gravel Mining Area at the River Products Strabala Tract, Section 34, T78N-R6W, Johnson County, Iowa*. Contract Completion Report 1193. Office of the State Archaeologist, University of Iowa, Iowa City.
- 2004 (with Teresa Halloran, Michael Kolb, and Ryan Grohnke) *Phase I Archaeological Investigation and Landscape Suitability Model for the Southern Iowa Rural Water Association (SIRWA)*. Loucks Associates, Minneapolis, Minnesota. Submitted to Southern Iowa Rural Water Associates, Creston, Iowa.
- 2003 (with Tassier-Surine, S. A., J. J. Krieg, D. J. Quade, E. A. Bettis III, and J. D. Giglierano) *Surficial geologic maps of developing areas in Iowa, Phase 2: Iowa City West and Tiffin 7.5' Quadrangles*. scale 1:24,000, Open File Map 03-04. Iowa Geological Survey, Iowa City.
- 2003 (with David J. Stephenson and John F. Doershuk) *Phase II Archaeological Evaluation of the Mehaffey Site (13CA33), Section 12, T76N-R37W, Cass County, Iowa*. Contract Completion Report 1062. Office of the State Archaeologist, University of Iowa, Iowa City.
- 2003 (with Stephenson, David L., and Toby A. Morrow) *Phase II Archaeological Evaluation of Site 13HN108, Section 4, T71N-R7W, Henry County, Iowa*. Contract Completion Report 1107. Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.
- 2003 *I-Sites: An Online Database and GIS for Iowa Archaeology*. Final grant report submitted to the National Center for Preservation Technology and Training, National Park Service. Grant Agreement Number MT-2210-0-NC-17. Office of the State Archaeologist, The University of Iowa, Iowa City.

- 2003 (with Joe McFarlane, Teresa Halloran, Michael Madsen, and Michael Kolb) Phase Ia Archaeological Survey for the Tri-Center Regional Water Association, 11-Township Service Area in Parts of Harrison, Pottawattomie, and Shelby Counties, Iowa. Loucks Associates, Minneapolis, Minnesota. Submitted to Regional Water, Incorporated, Avoca, Iowa.
- 2003 (with Teresa Halloran and Michael Madson) Phase I Archaeological Investigation and Landscape Suitability Model for the Southeast Polk Rural Water District. Loucks Associates, Minneapolis, Minnesota. Submitted to Southeast Polk Rural Water Association, Altoona, Iowa.
- 2003 *A Geoarchaeological Model of Prehistoric Site Location, Chichaqua Wildlife Area, Polk County, Iowa*. Contract Completion Report 951. Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.
- 2003 Soils and Geomorphology at 13HN373. Office of the State Archaeologist, University of Iowa, Iowa City. Submitted to the Louis Berger Group, Marion, Iowa.
- 2003 Soils and Geomorphology at 13HN177 on the Skunk River, Henry County, Iowa. Office of the State Archaeologist, University of Iowa, Iowa City. Submitted to the Louis Berger Group, Marion, Iowa.
- 2003 Soils and Geomorphology at 13HN354 on the Skunk River, Henry County, Iowa. Office of the State Archaeologist, University of Iowa, Iowa City. Submitted to the Louis Berger Group, Marion, Iowa.
- 2003 *Geoarchaeological Survey of Proposed Iowa City Municipal Airport Improvements, Johnson County, Iowa*. Contract Completion Report 1060. Office of the State Archaeologist, University of Iowa, Iowa City, Iowa.
- 2002 (with Joe McFarlane and Teresa Halloran) Phase Ia Archaeological Investigation and Landscape Suitability Model for the Odebolt Subsystem. Loucks Associates, Maple Grove, Minnesota. Submitted to West Central Iowa Rural Water Association, Manning, Iowa.
- 2002 Soils and Geomorphology of 13HN216 on the Skunk River, Henry County, Iowa. Office of the State Archaeologist, University of Iowa, Iowa City. Submitted to the Louis Berger Group, Marion, Iowa.
- 2002 Soils and Geomorphology of Three Archaeological Sites in the Mississippi River Valley in Morrison County, Minnesota. Office of the State Archaeologist, University of Iowa, Iowa City. Submitted to Loucks Associates, Maple Grove, Minnesota.
- 2001 (with Timothy S. Weitzel) *Geoarchaeological Survey of Proposed Wetland Restoration Locations, Chichaqua Wildlife Area, Polk County, Iowa*. Contract Completion Report 843. Office of the State Archaeologist, University of Iowa, Iowa City.
- 2001 Appendix B: Geomorphological Analysis. In, *Phase I Archaeological Survey for Proposed Sand Mining in the Iowa River Floodplain, Johnson County, Iowa*, by K. Kris Hirst. Louis Berger Group, Marion Iowa.
- 2001 Geomorphology and Soil Stratigraphy at 13CK113, Cherokee County, Iowa. Submitted to Cultural Heritage Associates, Sioux City, Iowa.
- 2001 A Statewide Cultural Resources GIS Goes to Work. Paper presented at the Conference on GIS and Archaeological Predictive Modeling, Argonne National Laboratory, Argonne, Illinois.
- 2001 Soils and Geomorphology of the Case Site, 13LE382. Office of the State Archaeologist, University of Iowa, Iowa City, Iowa. Submitted to Louis Berger Group, Marion, Iowa.
- 2000 *Evaluation of Environmental Biases in Previous Archaeological Survey Coverage at Fort Bragg, North Carolina* (senior author with Steven R. Ahler). Technical Report 2000-1394-19. Illinois State Museum, Springfield, Illinois.
- 2000 Archaeology and the Earth Sciences on the Northern Plains: A Historical Perspective. In *Geoarchaeological Research on the Great Plains: A Historical Perspective*, edited by Rolfe Mandel. University of Oklahoma Press, Norman.
- 2000 (senior author with Richard L. Fishel) *Phase I Intensive Archaeological and Geomorphological Survey of Proposed Rip-Rap and Levee Repair along the Raccoon River, Section 21, T78N-R25W, Polk County, Iowa*. Contract Completion Report 730. Office of the State Archaeologist, University of Iowa.
- 1999 GIS@OSA: An Update on OSA's Geographic Information Systems Project. *Iowa Archaeological Society Newsletter*.
- 1998 *The Archaeology of the Indian Creek Locality, Jasper County, Iowa*. Project Competition Report 20(35). Office of the State Archaeologist, University of Iowa.

- 1998 *A Data Recovery Plan for 13JP86, Jasper County, Iowa*. Submitted to Office of Project Planning, Iowa Department of Transportation, Ames.
- 1998 Geoarchaeology. In *Prehistoric Occupation in the Hinterland of the Skunk River: Phase II Archaeological Investigations at 13HN147 and 13HN491*, by K. Kris Hirst, pp. 55-60. *Project Completion Report 21(19)*. Office of the State Archaeologist, University of Iowa, Iowa City.
- 1998 Past Landscapes, Future Roads: GIS, Archaeology, and Highway Planning in Iowa. *CRM* 21(5):21–22 (senior author with Shesh Mathur and John D. Doershuk).
- 1998 Developing a GIS for Iowa's Architectural and Archaeological Heritage. *Coordinated GIS*, May 1998, p. 3–4.
- 1997 (senior author with John G. Hedden) *Data Recovery Plan for Five Archaeological Sites in the Eisele's Hill Locality, Muscatine County, Iowa*. Submitted to Office of Project Planning, Iowa Department of Transportation, Ames.
- 1997 Archaeological Road Maps of Iowa: Studying Site Distributions along Highway Corridors. *Journal of the Iowa Archaeological Society* 44:129-138.
- 1996 Cultural Response or Geological Process?: A Comment on Sheehan. *Plains Anthropologist* 41:383–393.
- 1996 Review of *In the Land of the Fragile Giants*, edited by Cornelia Mutel and Mary Swander. *Journal of the Iowa Archaeological Society* 43:173–175.
- 1996 *The Geoarchaeology of Southeast Iowa: Scale and Process in an Evolving Landscape*. Plains Anthropological Conference field trip guidebook. Office of the State Archaeologist, University of Iowa, Iowa City.
- 1996 (junior author with John G. Hedden) Phase II Test Excavations at Three Sites in the Eisele's Hill Locality, Muscatine County, Iowa. *Project Completion Report* 19(8). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1995 Geological Contexts of the Early and Middle Holocene Archaeological Record in North Dakota and Adjoining Areas of the Northern Plains. In *Archaeological Geology of the Archaic Period in North America*, edited by E. A. Bettis, III, pp. 67-86. Special Paper 297. Geological Society of America, Boulder, Colorado.
- 1995 Review of *Holocene Landscape Evolution in the Pawnee River Valley, Southwestern Kansas*, by Rolfe Mandel. *Plains Anthropologist* 40:198–201.
- 1995 *Archaeology of the Eisele's Hill Locality: Phase II Test Excavations at Six Sites in Muscatine County, Iowa*. Project Completion Report 18(30). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1995 *Phase II Archaeological Test Excavations at 11 Archaeological Sites in the Montrose Bottom, Lee County, Iowa*. Project Completion Report 18(23). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1994 Review of *Principals of Geoarchaeology: A North American Perspective*, by Michael R. Waters. *Journal of the Iowa Archaeological Society* 41:165–167.
- 1994 *Archaeology in the Montrose Bottom: A Supplemental Phase I Archaeological Survey, Lee County, Iowa*. Project Completion Report 17(20). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1994 *Test Excavations at 32SL31: A Multiple Component Site on East Rainey Butte, Slope County, North Dakota*. Submitted to the Department of Anthropology, University of North Dakota, Grand Forks.
- 1993 The Preservation of Cultural Stratigraphy in Loess-Mantled Terrains of Iowa. *Journal of the Iowa Archaeological Society* 40:50-62.
- 1993 Comments on "Guidelines for Geomorphological Investigations in Support of Archaeological Investigations in Iowa." *Journal of the Iowa Archaeological Society* 40:4-5.
- 1993 Review of *Soils in Archaeology: Landscape Evolution and Human Occupation*, edited by V. T. Holliday. *Plains Anthropologist* 38:318-321.
- 1993 Review of *The Holocene: An Interdisciplinary Journal Focusing on Recent Environmental Change*. *Geoarchaeology* 8:431-433.

- 1993 *Phase II Archaeological Investigations at 13RN59: A Late Archaic Campsite in Ringgold County, Iowa*. Project Completion Report 16(53). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1993 *Phase II Investigations at 13MR267, Marshall County, Iowa*. Project Completion Report 16(8). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1993 Geomorphological Analysis. In *Archaeological Investigations on Elk Creek: Phase II Investigations at 13DT107, Decatur County, Iowa*. Project Completion Report 16(47). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1992 *Archaeology and Geomorphology of a Portion of Muscatine Island and Adjacent Uplands: A Phase I Archaeological Survey, Muscatine County, Iowa*. Project Completion Report 15(63). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1992 (junior author with Mark L. Anderson) *A Phase II Investigation of 13DB400, Dubuque County, Iowa*. Project Completion Report 15(13). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1992 Geomorphological Assessment. In *The Diagonal Dune Site (13RN54)*, by K. Kristina Hirst and Joe Alan Artz. Project Completion Report 16(29). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1992 Review of *A Survey of Archaeological Resources and an Evaluation of Buried Site Potential in Northwestern Oklahoma County, Oklahoma*, edited by J. L. Hofman and R. R. Drass. *Plains Anthropologist* 37:175-177.
- 1992 A Kid's Eye View: Sixth Graders' Impressions of an Archaeological Dig. *Iowa Archaeological Society Newsletter*.
- 1991 Archaeologist on Heels of Iowa's Last Elephant Hunt. *Iowa Archaeological Society Newsletter* 4(4):2-3.
- 1991 Review of *The Moundbuilders*, by Lanford Wilson. *Journal of the Iowa Archaeological Society* 38:82-83.
- 1991 Review of "In Their Own Words," by Jenny Lawrence. *North Dakota Archaeological Association Newsletter*.
- 1991 *Prehistory, History and Geomorphology of the Mississippi River Valley in the Montrose Bottom, Lee County, Iowa*. Project Completion Report 14(9). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1991 *Woodland Period Archaeology of the Lower Des Moines River: Phase II Investigations at 13VB104 and 13VB607, Northwestern Van Buren County, Iowa*. Project Completion Report 14(2). Office of the State Archaeologist, University of Iowa, Iowa City.
- 1991 (senior author with Edward A. Hayden, Cherie E. Haury, James Arndt, and David Hopkins) *Southwest Pipeline Archaeology: The 1987 Survey and Test Excavation Programs at Prehistoric Sites in Mercer and Dunn Counties, North Dakota (Segments A and B2)*. Contribution 254. Department of Anthropology, University of North Dakota, Grand Forks.
- 1991 A Drive along U.S. 61 between Fort Madison and the Montrose Vicinity. In *Paleoenvironments and Archaeology of the Mississippi Valley in Southeastern Iowa*, compiled by E. A. Bettis III and William Green, pp. 38-45. Field Trip Guide, Association of Iowa Archaeologists. Copies available from Office of the State Archaeologist, University of Iowa, Iowa City.
- 1990 Archaeology and Benjamin DuBois, an Early Educator in Buffalo Township. *Scott County Iowan* 14:28-30.
- 1990 Remembering the Shepherds: The Icelandic Shepherds' Archaeological Site in Icelandic State Park, North Dakota. *Icelandic Canadian* 49(1):19-29. Also published in the *North Dakota Archaeological Association Newsletter* 11(1):5-15.
- 1988 (junior author with Cherie E. Haury and Paul Picha) *Evaluation of Four Cultural Resources on the Southwest Pipeline*. Contribution 244. Department of Anthropology, University of North Dakota. Submitted to the North Dakota State Water Commission, Bismarck.
- 1988 *The Past in Mekinock Township: Cultural Resources of the Proposed Peacekeeper Rail Garrison, Grand Forks Air Force Base, Grand Forks, North Dakota*. Department of Anthropology, University of North Dakota. Submitted to Tetra-Tech, Incorporated, San Bernadino, California.

- 1988 *Remembering the Shepherds: An Archeological Survey of the Pioneer Heritage Interpretive Center Tract, Icelandic State Park, Pembina County, North Dakota*. Department of Anthropology, University of North Dakota. Submitted to North Dakota Parks and Recreation Department, Bismarck.
- 1987 *The Geomorphology and Stratigraphy of the Southeast Extension Area of Archeological Site 32DU336, Halliday, Dunn County, North Dakota*. Department of Anthropology, University of North Dakota. Submitted to U.S. Department of Agriculture, Soil Conservation Service, Bismarck, North Dakota.
- 1987 (senior author with C. E. Haury, D. D. Kuehn, R. A. Fox, Jr., and K. P. Schweigert). *Southwest Pipeline Archeology: An Intensive Survey for Cultural Resources in Ten Counties of Southwestern North Dakota*. Contribution 235. Department of Anthropology, University of North Dakota. Submitted to the North Dakota State Water Commission, Bismarck.
- 1988 (editor) *Journal of the North Dakota Archeological Association*, vol. 3.
- 1986 A Soil-Geomorphic Approach to Locating Buried Late Archaic Sites in Northeastern Oklahoma. *American Archaeology* 5:142-149.
- 1986 *Southwest Pipeline Archeology: Testing and Evaluation of 15 Sites in Mercer and Dunn Counties, North Dakota (Segments A, B-1, and B-2)*. Contribution 229. Department of Anthropology, University of North Dakota. Submitted to North Dakota State Water Commission, Bismarck.
- 1986 Geomorphic Setting and Alluvial Stratigraphy. In *The Prehistory and Paleoenvironment of Hominy Creek Valley*, edited by Cherie E. Haury-Artz. Department of Anthropology, Laboratory of Archaeology, University of Tulsa, Tulsa, Oklahoma. Submitted to U.S. Army Corps of Engineers, Tulsa, Oklahoma.
- 1985 (junior author with Dennis L. Toom) *An Archeological Survey of Selected Federal Lands on the West Bank of Lake Oahe, Oahe Dam Vicinity, Stanley County, South Dakota, 1984*. Contribution No. 215. Department of Anthropology, University of North Dakota. Submitted to the U.S. Army Corps of Engineers, Omaha District, Omaha, Nebraska.
- 1985 Geoarcheology of the Study Area. In *An Archeological Survey of Selected Federal Lands on the West Bank of Lake Oahe, Oahe Dam Vicinity, Stanley County, South Dakota, 1984*, by Dennis L. Toom and Joe Alan Artz, pp. 131-145. Contribution No. 215. Department of Anthropology, University of North Dakota. Submitted to the U. S. Army Corps of Engineers, Omaha District, Omaha, Nebraska.
- 1985 A Preliminary Reconnaissance of Late Quaternary Deposits in Sloughs and Depressions of the KRF Primary Source Area, Dunn County, North Dakota. In *Archeological Investigations in the Knife River Flint Primary Source Area, Dunn County, North Dakota: 1984-1985 Site Testing Program*, by Matthew J. Root and Julieann VanNest, pp. 472-493. Contribution No. 222. Department of Anthropology, University of North Dakota. Submitted to the State Historical Society of North Dakota, Bismarck.
- 1985 Boeckel-Renner (32ME799): A Mound Complex and Stone Circle Site in Mercer County, North Dakota. *North Dakota Archeological Association Newsletter* 6(2):3-14.
- 1985 Prehistoric Procurement and Use of Knife River Flint near the Killdeer Mountains, North Dakota. *Journal of the North Dakota Archaeological Association* 2:120-139.
- 1984 (senior author with Kenneth C. Reid) Geoarchaeological Investigations in Cotton Creek Valley. In *Hunters of the Forest Edge: Culture, Time, and Process in the Little Caney Basin (1980, 1981, and 1982 Field Seasons)*, by Kenneth C. Reid and Joe Alan Artz, pp. 97-186. Studies in Oklahoma's Past No. 13. Oklahoma Archeological Survey, Norman, Oklahoma.
- 1984 (junior author with Kenneth C. Reid) *Hunter's of the Forest Edge: Culture, Time, and Process in the Little Caney Basin (1980, 1981, and 1982 Field Seasons)*. Studies in Oklahoma's Past No. 13. Oklahoma Archeological Survey, Norman Oklahoma.
- 1983 *Archaeological Site Assessment at Kaw Lake, Kay and Osage Counties, Oklahoma: 1982*. Department of Anthropology, Laboratory of Archaeology, University of Tulsa, Tulsa, Oklahoma. Submitted to U. S. Army Corps of Engineers, Tulsa, Oklahoma.
- 1983 *An Evaluation of the Cultural Resources of the Montour Wildlife / Recreation Area, Gem County, Idaho*. Project Report Series No. 51. Museum of Anthropology, University of Kansas, Lawrence. Submitted to the U.S. Bureau of Reclamation, Boise, Idaho.
- 1983 *Investigations at the Big Gulch-Chase Site, 32DU273. In Archeological Investigations at 32DU37 and 32DU273: Two Sites near the Killdeer Mountains in Dunn County, North Dakota*,

- edited by Joe Alan Artz, Matthew J. Root, and Michael L. Gregg. Contribution No. 197. Department of Anthropology, University of North Dakota. Submitted to the Northern Border Pipeline Company, Omaha, Nebraska.
- 1983 Phase III Investigations at 14BU4. In *Archaeological Investigations at El Dorado Lake, Butler County, Kansas (Phase III)*, edited by Paul E. Brockington, Jr., pp. 34-94. Project Report Series No. 49. Museum of Anthropology, University of Kansas. Submitted to the U.S. Army Corps of Engineers, Tulsa, Oklahoma.
- 1983 Shidler Lake Soils and Geomorphology. In *Archaeological Survey of the Upper Salt Creek Basin, Osage County, Oklahoma*, assembled by Foster E. Kirby and Anne B. Justen. Contributions in Archaeology No. 10. Department of Anthropology, University of Tulsa, Tulsa, Oklahoma. Submitted to the U.S. Army Corps of Engineers, Tulsa, Oklahoma.
- 1983 (senior author with Matthew J. Root) Summary of Project Results: Prehistoric Settlement along the Northern Border Pipeline. In *Archeology of the Northern Border Pipeline, North Dakota: Test Excavations*, edited by Matthew J. Root and Michael L. Gregg, pp. 1418-1478. Contribution No. 195. Department of Anthropology and Archaeology, University of North Dakota, Grand Forks. Submitted to the Northern Border Pipeline Company, Omaha, Nebraska.
- 1982 The Avifauna from Travis I. In *Archaeological Excavations at the Travis I Site, 39CO213, Corson County, South Dakota*, edited by Thomas W. Haberman, pp. 439-456. Contract Investigation Series No. 37. South Dakota Archaeological Research Center, Fort Meade, South Dakota.
- 1980 Inferring Season of Occupation from Fish Scales: An Archaeological Approach. *Plains Anthropologist*, Vol. 25, pp. 47-62.
- 1981 The Avifauna from Oakwood Lakes. In *Archaeological Excavations at 39BK7, Brookings County, South Dakota, Fall 1979*, edited by L. Adrienne Hannus, pp. 277-288. Contract Investigation Series No. 33. South Dakota Archaeological Research Center, Fort Meade, South Dakota.
- 1981 Test Excavations at El Dorado Lake, 1978. In *Prehistory and History of El Dorado Lake Area, Kansas (Phase II)*, edited by Mary J. Adair, pp. 54-168. Project Report Series No. 47. Museum of Anthropology, University of Kansas, Lawrence. Submitted to the U.S. Army Corps of Engineers, Tulsa, Oklahoma.
- 1980 *Cultural Resources of the West River Aqueduct: Literature Search and Preliminary Reconnaissance*. Contract Investigation Series No. 30. South Dakota Archaeological Research Center, Fort Meade, South Dakota.
- 1979 Soil Distribution and Vegetational Reconstruction in the Kansas City International Airport Environs. In *Cultural Resources of the Kansas City International Airport and its Environs*, edited by Brad Logan, pp. 20-26. Research Series No. 3. Museum of Anthropology, University of Kansas, Lawrence.
- 1978 Faunal Analysis. In *Nebo Hill*, assembled by Kenneth C. Reid, pp. 226-246. Museum of Anthropology, University of Kansas. Submitted to Missouri State Highway Commission, Jefferson City, Missouri.
- 1975 The Chipped Stone Assemblage from 14MM26. In *Archeological Investigations at 14MM26, Hillsdale Reservoir, Eastern Kansas*, by Joe Artz, Ronald Manion, J. O. Marshall and Chris Wright. Museum of Anthropology, University of Kansas. Submitted to National Park Service, Midwest Archeological Center, Lincoln, Nebraska.

PROFESSIONAL PAPERS PRESENTED

- 2006 (with Melanie Riley, and Cynthia Wambsgans) Using GIS to Integrate Available Data on Surface Geology for Archaeological Modeling in Iowa Stream Valleys. Paper presented at annual meeting of the Iowa Geographic Information Council, Ames, Iowa.
- 2006 (with Melanie Riley) Digging GIS: A Geoarchaeological Decision Support Tool for Iowa Archaeologists. Poster paper presented to Mid American Geographic Information Consortium, Kansas City, MO.
- 2005 (with Colleen Eck) Turning the Corner: Evolution of the I-Sites On-line Interface. Paper presented at meeting of the Iowa Geographic Information Council, Ames, Iowa.

- 2005 (with Melanie Riley) Black Dirt and Gray Literature: Creating a Database for Holocene Stratigraphy from Geoarchaeological Reports. Presented in the symposium, Contributions of Geology to Archaeological Method and Theory: Papers in Honor of Paul Garvin. Iowa Academy of Science, Mount Vernon, Iowa.
- 2003 (with Colleen Eck) I-Sites: An Online Database and Geographic Information System for Archaeology in Iowa, USA. World Archaeological Conference, Washington, D.C.
- 2003 The Meaning of Potential: Assessing Habitability in Prehistoric Landscapes. Paper presented to the Society for American Archaeology, Milwaukee, Wisconsin.
- 2001 (with Colleen Eck) A Statewide GIS for Iowa Archaeology Goes to Work. Paper presented to the Iowa Geographic Information Conference.
- 2001 Chert Outcrops and Site Locations in Iowa (senior author with Chad Goings). Society for American Archaeology, New Orleans, Louisiana.
- 2001 A Statewide Cultural Resources GIS Goes to Work. Conference on GIS and Archaeological Predictive Modeling, Argonne National Laboratory, Argonne, Illinois.
- 2000 From Diaries to Data, From Data to Models: Contributions to Glenwood Locality Archaeology. 49th Midwest/58th Plains Conference, St. Paul, Minnesota. (senior author with Cherie E. Haury, John G. Hedden, and Larry J. Zimmerman).
- 1999 Visualizing Iowa: A Statewide GIS Goes to Work. 57th Plains Anthropological Conference, Sioux Falls, South Dakota.
- 1999 A GIS for Iowa Archaeology. 4th Iowa Geographic Information Conference, Storm Lake, Iowa.
- 1999 The Effect of Biomantle and Geomorphic Processes in Burying Central Iowa Archaeological Sites. Geological Society of America, North-Central Section, Champaign, Illinois.
- 1998 Transforming a Legacy: Creating a Cultural Resources GIS for Iowa. Midwest Archaeological Conference, Muncie, Indiana
- 1998 Modeling Prehistoric Site Location in Central Iowa: A GIS Approach. Plains Anthropological Conference, Bismarck, North Dakota.
- 1998 Separate Visions, Diverging Destinies. the Archaeological Collaboration of Leonard Woolley and T. E. Lawrence at Carchemish (1912-1916). Iowa Society of the Archaeological Institute of America, Iowa City, Iowa.
- 1997 (senior author with John Hedden) GIS in Iowa Archaeology. Iowa Conference on GIS, Cedar Falls, Iowa.
- 1997 (senior author with Joe Krieg) Geoarchaeology and the Archaic in Iowa. Plains Anthropological Conference, Boulder, Colorado.
- 1997 An Initiative for GIS in Iowa Archaeology. Plains Anthropological Conference, Boulder, Colorado.
- 1996 The Meaning of Potential and the Role of Geoarchaeology in Archaeological Survey. Plains Anthropological Conference, Iowa City, Iowa.
- 1996 (with Carl Merry) Iowa Highway Archaeology and Investigations for U.S. 61 Expansion in Muscatine County. Transportation Conference, American Society for Civil Engineers, Ames, Iowa.
- 1995 The Geoarchaeology of the McNeal Site, Southeast Iowa: Site Formation and Preservation in an Alluvial Fan. Plains Anthropological Conference, Laramie, Wyoming.
- 1995 Rodent Induced Size Sorting of Archaeological Deposits in Southeast Iowa. Society for American Archaeology, Minneapolis, Minnesota
- 1995 Sifting the Shifting Sands: A Post-Abandonment Perspective on Archaeological Site Formation in the Mississippi River Valley, Lee County, Iowa. Iowa Academy of Science, Waverly, Iowa.
- 1995 Bioturbation as an Archaeological Site Formation Process on Sandy Late Wisconsinan Terraces of the Upper Mississippi River Valley. Joint North-Central and South-Central Section meetings, Geological Society of America, Lincoln, Nebraska.
- 1994 Archaeological Road Maps of Iowa. Iowa Academy of Science, Davenport, Iowa.
- 1993 Geoarchaeological Observations on Buried Archaeological Components in Loess-Mantled Terrains of Iowa. Midwest Archaeological Conference, Milwaukee, Wisconsin.
- 1993 (senior author with E. Arthur Bettis III) Holocene Geology as an Aid in Archaeological Survey: An Example from the Upper Mississippi Valley. Society for American Archaeology, St. Louis, Missouri.
- 1992 Geoarchaeological Evidence for Particle Sorting by Bioturbation in Late Holocene Soils of the Midwest. Abstracts with Programs 24(4):2. Geological Society of America, Boulder, Colorado.

- 1992 Archaeology and Geology on the Northern Plains: A Historical Perspective. Plains Anthropological Conference, Lincoln, Nebraska.
- 1992 Bioturbational Size Sorting of Artifacts as an Archaeological Site Formation Process. Iowa Academy of Science, Cedar Falls, Iowa.
- 1992 Archaeological Survey along U.S. 61 in Muscatine County, Iowa. Iowa Archaeological Society, Ames, Iowa.
- 1991 Site Formation Processes and Soil Evolution: A Case Study from Southeastern Iowa. Plains Anthropological Conference, Lawrence, Kansas.
- 1991 Prehistory and History in the Montrose Bottom, Lee County, Iowa. Iowa Archaeological Society, Iowa City, Iowa.
- 1990 Alluvial Chronologies from Archaeological Data: Examples from North Dakota. Plains Anthropological Conference, Oklahoma City, Oklahoma.
- 1990 Holocene Alluvial Chronologies from North Dakota: Implications for the Timing of Major Episodes of Regional Geomorphic Change. Association of American Geographers, Toronto, Ontario.
- 1986 The Lithic Landscape in Southwestern North Dakota: Geology, Archeology, and Prehistoric Lithic Resources. Plains Anthropological Conference, Denver, Colorado.
- 1986 Glimpses of the Midisti: Prehistoric Activity Structure at a Stone Circle and Earth Mound Complex in Mercer County, North Dakota. Plains Anthropological Conference, Denver, Colorado.
- 1985 Boeckel-Renner (32ME799): A Mound Complex and Stone Circle Site in Mercer County, North Dakota. Plains Anthropological Conference, Iowa City, Iowa.
- 1984 The Oahe Formation along Spring Creek, Dunn County, Western North Dakota. Presented in the round-table discussion, "Geomorphology of the Missouri River Trench," 42nd Plains Anthropological Conference, Lincoln, Nebraska.
- 1983 Bone Preservation and Soil Phosphorus: Pedologic Mechanisms for Post-Depositional Weathering of Bone in Archaeological Sites. Plains Anthropological Conference, Rapid City, South Dakota.
- 1983 A Soil-Geomorphic Approach to Locating Buried Late Archaic Sites in Northeastern Oklahoma. Presented in the symposium, Applications of Pedologic and Geomorphic Research in Midwestern Archaeology, at the Midwest Archaeological Conference, Iowa City, Iowa.
- 1983 (junior author with Kenneth C. Reid) Post-Hypsithermal Prehistory and Paleoenvironments at Copan Lake. Oklahoma Anthropological Society, Norman, Oklahoma.
- 1983 (senior author with Kenneth C. Reid) Modeling the Location of Buried Late Archaic Sites in Northeastern Oklahoma: A Geomorphic Perspective. Presented in the symposium, Archaeological Site Location Prediction Models: Derivations and Applications. Society for American Archaeology, Pittsburgh, Pennsylvania.
- 1982 (junior author with Kenneth C. Reid) Environmental Stress and the Origins of the Arkansas Basin Caddoans: A Cross-Timbers Perspective. Society for American Archaeology, Minneapolis, Minnesota.
- 1981 Soil-Geomorphic Perspectives on Prehistoric Site Location in a Southern Flint Hills Valley. Flint Hills / Osage Hills Archaeological Conference, Wichita, Kansas.
- 1980 Soil-Geomorphic Evidence for Environmental Change on the Southeastern Periphery of the Central Plains. Plains Anthropological Conference, Iowa City, Iowa.
- 1980 Soil Stratigraphy and Alluvial Chronology from the Upper Walnut River, Butler County, Kansas. Flint Hills / Osage Hills Archaeological Conference, Lawrence, Kansas.
- 1979 Procurement and Utilization of Avifauna at Two Middle Missouri Tradition Sites. Plains Anthropological Conference, Kansas City, Missouri.
- 1979 Archaic Occupations and Depositional Processes on the Upper Walnut River Floodplain, Butler County, Kansas. Flint Hills / Osage Hills Archaeological Conference, Norman, Oklahoma.
- 1978 Inferring Season of Occupation from Fish Scales: An Archaeological Approach. Plains Anthropological Conference, Denver, Colorado.

ELECTED OFFICES AND NON-ELECTED POSITIONS

- 2000-present Member, STATEMAP Advisory Panel, Iowa Geological Survey.
- 2000-2004 Member, Board of Directors, Iowa Geographic Information Council

- 1997-2000 Member, Board of Directors, Plains Anthropological Society (served as Vice-President, 1998-1999; President 1999-2000).
- 1996-present Louisa Ecological Advisory Committee (multidisciplinary committee of scientists advising MidAmerican Energy on management of their Big Sand Mound Nature Preserve).
- 1995-1996 Anthropology Section Chair, Iowa Academy of Sciences
- 1987-1988 Editor, *Journal of the North Dakota Archaeological Association*.
- 1987-1988 President, Professional Council for North Dakota Heritage.

PROFESSIONAL SOCIETY MEMBERSHIP

Association of Iowa Archaeologists	Fellow
Geological Society of Iowa	Associate
Iowa Archaeological Society	Member
Iowa Geographic Information Council	Member
Plains Anthropological Society	Member
Society for American Archaeology	Member

REFERENCES

Available on Request

Last Revised: May 2006