

# ***STEVEN RAY BOZARTH***

## ***CURRICULUM VITAE***

### ***OFFICE***

University of Kansas Palynology Laboratory  
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### ***HOME***

2004 New Hampshire  
Lawrence, Kansas 66046  
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### ***ADVANCED EDUCATION***

B.S. - Geography, Kansas State University, 1974.

M.A. - Anthropology, specializing in archaeology, University of Kansas, 1985. Thesis: *An Analysis of Opal Phytoliths from Rinds of Selected Cucurbitaceae Species.*

Ph.D. - Geography, University of Kansas, 1996. Dissertation: *Pollen and Opal Phytolith Evidence of Prehistoric Agriculture and Wild Plant Utilization in the Lower Verde River Valley, Arizona.*

### ***FOREIGN LANGUAGES***

Spanish, Kaqchikel Maya (Guatemala), basic knowledge of Maya epigraphy, Lingala (Congo)

### ***POSITIONS***

Adjunct Assistant Professor of Geography - University of Kansas, Fall 1996 to present.

Lecturer - Department of Geography, University of Kansas, Fall 1998.

Research Assistant - University of Kansas Palynology Laboratory, Fall 1995 - Spring 1996.

Contract Palynologist and Opal Phytolith Analyst - University of Kansas Palynology Laboratory, 1993-1995.

Research Assistant - Department of Anthropology, Fall 1992.

Research Assistant - University of Kansas Palynology Laboratory; Summer and Fall 1992, Fall 1990 - Spring 1991.

Research Assistant - University of Kansas Herbarium; Fall 1989 - Spring 1990, Fall 1988 - Spring 1989.

Teaching Assistant - Instructor of Introductory Laboratory in Physical Geography, Spring 1988.

Research Assistant - Archaeology Laboratory, Museum of Anthropology, University of Kansas, Spring 1987.

Research Assistant - University of Kansas Palynology Laboratory; Spring 1987, Spring 1986, Fall 1983 - Spring 1984.

Museum Assistant - University of Kansas Museum of Anthropology; Fall 1982 - Spring 1983.

### ***COURSES TAUGHT***

Geog. 105 - Introductory Laboratory in Physical Geography

Geog. 731 - Topics in Physical Geography: Opal Phytolith Analysis

### ***RESEARCH INTERESTS***

Paleoenvironmental reconstruction

Landscape evolution

Archaeology

Paleoethnobotany

Prehistoric/Prehispanic agriculture

Palynology

Phytolith analysis

Maya epigraphy

### ***POLLEN/PHYTOLITH ANALYSIS CONTRACTS***

Biosilicate Analysis of six sites on Yellowhouse Draw. Lubbock Lake Landmark Museum of Texas Tech University, Lubbock, Texas. 10/5/04 - 11/1/04.

Assessment of Phytolith Preservation at 41BL278. TRC Environmental, Austin, Texas. 9/28/04 - 10/4/04.

Phytolith analysis at 14SD35. Kansas State Historical Society. 7/20/04 - 7/23/04.

Assessment of Pollen and Phytolith Preservation at LA48098. Engineering-Environmental Management, Inc., Albuquerque, New Mexico. 7/13/04 - 7/19/04.

Phytolith Analysis at Nakbé, Northern Guatemala. RAINPEG, Institute of Geophysics and Planetary Physics UCLA. 5/31/04 - 7/8/04

Phytolith Analysis at 38BK1633. Brockington and Associates, Inc., Mt. Pleasant, South Carolina. 5/17/04 - 5/28/04

Pollen and Phytolith Analysis of Camel Tracks (LA 138121). Office of Contract Archaeology, University of New Mexico, Albuquerque. 2/23/04 - 5/3/04

Pollen and Phytolith Analysis at Big Basin, Kansas. University of Kansas. 2/4/04 - 2/20/04

Phytolith Analysis at 14CO1310. The Louis Berger Group, Inc. 1/19/04 - 2/3/04.

Phytolith Analysis at Chunchucmil, Yucatan. University of California, Berkeley, California. 11/19/03-12/29/03.

Pollen and Phytolith Analysis at Blue Creek. Center for Environment, Georgetown University, 10/30/03-11/18/03.

Pollen and Phytolith Analysis on the Fence Lake Project. Statistical Research, Inc. Phoenix, Arizona 3/25/03 - 10/27/03.

Phytolith Analysis. Archaeological Investigations at AZT:12:116 (ASM). Archaeological Consulting Services, Ltd., Tempe, AZ. 12/5/02 - 1/20/03.

Phytolith Analysis. Archaeological Investigations at AZ:U:3:76 (ASM). Archaeological Consulting Services, Ltd., Tempe, AZ. 10/23/02-12/3/02.

Pollen and Phytolith Analysis. Boca Negra Wash (LA 124474). Maxwell Museum, University of New Mexico, Albuquerque. 10/10/02-10/18/02

Phytolith Analysis. Archaeological study of rock alignments at AZ T:7:159 (ASM). Archaeological Consulting Services, Ltd., Tempe, AZ. 9/24/02-10/9/02

Phytolith Analysis. Early Postclassic Period Households at Rio Viejo, Oaxaca, Mexico. Department of Anthropology, UCLA. 7/16/02-9/23/02

Phytolith Analysis. Archaeological Investigations at AZ M:6:47 (ASM). Archaeological Consulting Services, Ltd., Tempe, AZ. 6/27/02 - 7/15/02.

Phytolith Analysis. Archaeological Investigations of Reservoir B at La Milpa, Belize. Department of Anthropology, University of Cincinnati. 5/14/02 - 6/26/02.

Phytolith Analysis. Archaeological Investigations at Tipu, Belize. Department of Anthropology, Plattsburgh State University, Plattsburgh, NY. 5/7/02 - 5/13/02.

Phytolith Analysis. Archaeological Investigation of AZ T:14:77, 126, and 127 (ASM) between Buckeye and Gila Bend Maricopa County, Arizona. Archaeological Consulting Services, Ltd., Tempe, AZ. 3/27/02 - 4/17/02.

Phytolith Analysis. Paleoenvironmental Reconstruction of Zagoskin Lake (St. Michael Island), Norton Sound, Chukchi Sea, and Eva Creek, Alaska. USGS, Denver, CO. 1/30/02 - 3/26/02.

Phytolith Analysis. Red Mountain Freeway Archaeological Project (AZ U:9:222 (ASM)). Archaeological Consulting Services, Ltd., Tempe, Arizona. 12/11/01 - 1/29/02.

Pollen and Phytolith Analysis. Phase II - Archaeological Investigations at 48CR5844, Wyoming. Burns and McDonnell. 9/5/01 - 10/2/01

Preliminary Phytolith Analysis. Archaeological Investigations Along US Highway 54, TRC Mariah Associates Inc., Albuquerque, New Mexico. 7/24/01 - 8/6/01.

Phytolith Analysis. Archeological Study of El Bajio, Veracruz, Mexico. Pennsylvania State University. 4/24/01 - 7/9/01.

Pollen and Phytolith Analysis. Archaeological Investigations at 48CR5844, Wyoming. Burns and McDonnell. 2/11/01 - 3/8/01.

Phytolith Analysis. Phase II, Paleoenvironmental Reconstruction. USGS (Muhs). 11/9/00 - 1/5/01.

Phytolith Analysis. Playa Investigation, University of Kansas. 8/25/00 - 11/7/00.

Phytolith Analysis. Archaeological Investigations of Playas in Hueco Bolson, Texas. TRC Mariah Associates Inc., Albuquerque, N.M. 7/26/00 - 9/8/00.

Phytolith Analysis. Paleoenvironmental Reconstruction, USGS (Muhs). 5/23/00 - 7/23/00.

Phytolith and Pollen Analysis. Archaeological Research Along N.M. 90. TRC Mariah Associates Inc., Albuquerque, N.M. 10/21/99 - 5/19/00.

Phytolith Analysis. Eustis Ash Pit Study, University of Kansas. 9/23/99 - 10/20/99.

Pollen Analysis. Preliminary Pollen Analysis of Gettysburg National Military Park. GAI Consultants, Inc., PA. 9/11/99 - 9/22/99.

Phytolith Analysis. Archaeological Research at Blue Creek. Maya Research Program, St. Mary's University, San Antonio, Texas. 7/1/99 - 9/10/99.

Phytolith Analysis. Archaeological Investigations at Nakbé, Petén. RAINPEG, University of California, Los Angeles. 5/11/99 - 8/24/99.

Phytolith Analysis. Archaeological Investigations at 34RM14 and 34WA2. Oklahoma Archaeological Survey, University of Oklahoma. 4/24/99 - 5/10/99.

Pollen Analysis. Lower Titcomb Lake Study. University of Kansas (John Gosse P.I.). 7/6/98 - 2/28/99.

Phytolith Analysis. AUX-6 Archaeological Data Recovery Project, Gila Bend Arizona. Dames & Moore, Phoenix, Arizona. 9/15/98 - 10/31/98.

Phytolith Analysis. Archaeological Site 22OK908 in Oktibbeha County, Mississippi. Brockington and Associates, Inc. Norcross, Georgia. 8/13/98 - 8/28/98.

Phytolith Analysis. WGAA Runway 12L-30R Reconstruction Archaeological Data Recovery Project, Mesa, Arizona. Dames & Moore, Phoenix, Arizona. 4/12/98 - 5/5/98.

Pollen and Phytolith Analysis. Puzzle House (5MT11787) Archaeological Project. Ft. Lewis College, Durango, Colorado. 1/10/98 - 2/11/98.

Phytolith Analysis. Archaeological Investigations at the Little Deer Site (34CU10). Oklahoma Archaeological Survey, University of Oklahoma. 1/04/98 - 1/20/98.

Phytolith Analysis. Arkansas City Archaeological Project. Kansas State Historical Society. 10/28/97 - 12/31/97.

Phytolith Analysis. Archaeological Data Recovery at the Chandler Site (40CH74), Pleasant View, Cheatham County, Tennessee. Brockington and Associates, Inc. Norcross, Georgia. 10/20/97-10/27/97.

Preliminary Phytolith Analysis. Archaeological Investigations at Nakbe', Peten. RAINPEG, University of California, Los Angeles. 9/5/97 - 10/7/97

Phytolith Analysis. Archaeological Investigations at 14HO306. Kansas State Historical Society. 8/04/97 - 8/11/97.

Phytolith Analysis. Archaeological Investigations at 14RY38. Kansas State Historical Society. 8/01/96 - 1/01/97.

Pollen and Phytolith Analysis. State Route 87 - Sycamore Creek Archaeological Project. Statistical Research, Inc., Tucson, Arizona. Arizona Department of Transportation. 3/13/95 - 3/31/97.

Phytolith Analysis. Archaeological Investigations at 39HU10, South Dakota. Archaeology Laboratory, Augustana College, South Dakota. 1/05/93 - 2/03/93.

Fossil Pollen and Phytolith Analysis. Study of Selected Zuni Fields, New Mexico. Department of Agronomy, Iowa State University. 6/13/92 - 1/26/1993.

Fossil Palynomorph and Biosilicate Analysis. Wilson Butte Cave Archaeological Project, South Central Idaho. University of Alberta, Edmonton. 6/01/92 - 6/16/92.

Phytolith Analysis. Paleoenvironmental Reconstruction of Gilman Canyon. University of Kansas. 2/17/92 - 5/19/92.

Pollen and Phytolith Analysis. Archaeological Investigations at Lee Canyon, Arizona. Statistical Research, AZ. 10/28/91 - 2/15/92.

Biosilicate Analysis. Southern High Plains Project. University of Wisconsin - Madison. 7/03/91-9/02/91.

Pollen and Phytolith Analysis. Archeological Investigations at Roosevelt Rural Sites, Arizona. Statistical Research, AZ. 10/23/90 - 3/27/95.

Phytolith Analysis. Lake Perry Archaeological Project. Kaw Valley Engineering and Development, Inc., Kansas. 2/16/1989 - 4/4/1989.

Phytolith Analysis. Archaeological Investigations at 14MN328. Kansas State Historical Society. 6/01/88 - 7/18/88.

Pollen Analysis. Late Archaic and Woodland Sites in Pennsylvania. EMANCO Inc., Texas. 3/16/1987 - 6/8/87.

Phytolith Analysis. Archaeological Investigations at Harlan County Lake, Nebraska. Kaw Valley Engineering and Development, Inc., Kansas 1/11/86 - 2/15/1986.

Phytolith Analysis. Archaeological Investigations at Wilson Lake, Kansas. Wichita State University. 9/20/85 - 11/25/1985.

Pollen and Phytolith Analysis. Jetmore Mammoth Site, Kansas. University of Kansas. 7/24/84 - 8/25/1984.

Pollen and Phytolith Analysis. Microfossil Analysis of the Sudi Site. University of Kansas. 3/5/84 - 4/1/1984.

Phytolith Analysis. Archaeological Investigations at 25DX3. Wichita State University. 10/18/83 - 12/15/1983.

Phytolith Analysis. Coody Creek Site, Oklahoma. Soil Systems Inc. 6/29/83 - 8/15/83.

## ***RESEARCH GRANTS***

American Philosophical Society Franklin Research Grant \$12,000 (2001-2002)

Center of Latin American Studies conference travel grant (2001)  
Sigma Xi Grant-in-Aid of Research (1994 and 1986).  
University of Kansas graduate student travel grant (1984).

### ***FIELD EXPERIENCE***

- June 2004      Collection of sediment samples at the Goetz Site, National Elk Refuge, Jackson Hole, Wyoming for the National Park Service.
- Sept. 2003     Collection of core at Big Basin, Clark County, Kansas.
- Aug. 2002      Collection of off site modern analogs for the Fence Lake Project, New Mexico.
- June 2002      Collection of pollen and phytolith samples in Prehispanic fields at Blue Creek with Tim Beach.
- July 2001      Sounded depths of aguadas and cenotes for future coring and surveyed areas for collection of plant materials for phytolith reference slides.
- May 2001      Collection of pollen and phytolith samples in Prehispanic fields at Blue Creek
- July 2000      Collection of pollen and phytolith samples in Prehispanic fields at the Blue Creek Site and Lamanai.
- July 1999      Collection of phytolith samples at Lamanai, a Preclassic - post-Conquest site in northern Belize.
- June-July  
Classic  
1999          Phytolith and pollen sample coordinator at the Blue Creek Site, a Preclassic - Maya site in northern Belize.
- July 1998      Collection of subsamples for pollen analysis from sediment cores collected in Titcomb Lake in the Wind River Range, Wyoming.
- June-July  
Classic  
1998          Phytolith and pollen sample coordinator at the Blue Creek Site, a Preclassic - Maya site in northwestern Belize.
- March-April  
Guatemala.  
1998          Phytolith sample coordinator at Nakbé, a Preclassic Maya site in northern
- Aug. 1996      Collection of sediment samples for phytolith analysis at the DB site, an Archaic

site in northeastern Kansas.

- March 1995 Collection of floral materials on the SR 87 Project, Arizona.
- May 1993 Collection of floral materials and modern analog soil samples on the Lower Verde  
May 1992 Archaeological Project, Arizona.
- March-April Collection of plant materials and soil samples on the  
1992 Golfito Dulce Archaeological  
Project, Costa Rica.
- Oct. 1990 Collection of plant and floral materials and soil samples on the Roosevelt Rural  
Sites Study, Arizona.
- June 1990 Collection of soil samples at the Sargent Site, a section of upland buried soils in  
southwestern Nebraska.
- June 1990 Collection of soil samples at the La Sena Site, a Mammoth site in southwestern  
Nebraska.
- Aug. 1988 Excavator and phytolith sample coordinator on the Perry Lake Archaeological  
Project - a testing project in northeast Kansas.
- Oct. - Nov. Excavator on a Upper Republican house (25FT22), southwestern Nebraska. 1987  
Gilbert/Commonwealth.
- Sept. 1987 Excavator on the North Cove Site, a Paleo-Indian and paleontological site,  
southern Nebraska. Kaw Valley Engineering and Development, Inc.
- Nov. - Dec. Labor supervisor and phytolith sample coordinator on excavation of Great Bend  
1986 aspect village (14MN328), south-central Kansas. Kansas State Historical Society.
- Sept. - Oct. Labor supervisor on excavation of burned sandstone complex (14CT347), south-  
1986 east Kansas. Kansas State Historical Society.
- Sept. 1985 Assistant director of testing project at Perry Lake, northeast Kansas.  
Environmental Systems Analysis, Inc.
- July - Aug. Assistant director of survey at Perry Lake. Environmental Systems Analysis, Inc.  
1985.
- June - July Crew member and phytolith sample coordinator on shore-line survey of Wilson  
1985 Lake, central Kansas. Dr. Donald Blakeslee, Archaeological Consultant.
- June - July Excavator on a Grasshopper Falls Phase house, northeast Kansas. Kansas State  
1984 Historical Society.

- May 1984      Pollen and phytolith sample coordinator and excavator on mammoth site, western Kansas. Museum of Anthropology, University of Kansas.
- July - Aug. 1983      Crew chief on survey at Lake Francis Case, South Dakota. Museum of Anthropology, University of Kansas.
- May - June 1983      Excavator on testing project at Lewis and Clark Lake, South Dakota. Soil Systems, Inc.
- March 1983      Field director of pipeline survey, Oklahoma. Soil Systems, Inc.
- Feb. - June 1983      Laboratory technician on the Coody Creek Site, a late Caddo Village, eastern Oklahoma. Soil Systems, Inc.
- Jan. 1983      Field director of pipeline survey, Oklahoma panhandle and southwestern Kansas. Soil Systems, Inc.
- Dec. 1982 - Feb. 1983      Excavator on the Coody Creek Site, a late Caddo Village, eastern Oklahoma. Soil Systems, Inc.
- June 1982      Crew member on pipeline survey, northeastern Oklahoma. Soil Systems, Inc.
- June 1982      Excavator and pollen sample coordinator during testing of the Coody Creek Site, a late Caddo Village, eastern Oklahoma. Soil Systems, Inc.
- Oct. 1981      Crew member on survey in eastern Arkansas. Soil Systems, Inc.
- July-Oct 1981      Excavator and pollen sample coordinator on testing and mitigation of the Steel Site 1981 (3MS351), a multiple component site in northeastern Arkansas. Soil Systems, Inc.
- June 1981      Excavator on the Northern Border Pipeline Project, South Dakota. University of South Dakota.
- July - Aug. 1980      Crew member on the Brushy Creek survey, central Iowa. University of South Dakota.
- 1977 - 1979      Agricultural Peace Corps Volunteer in Guatemala.
- 1974 - 1976      Agricultural Peace Corps Volunteer in Zaire.

***PUBLICATIONS (REFEREED)***

- 2004      Biosilicate Analysis of Residue in Maya Dedicatory Cache Vessels from Blue Creek, Belize, by Steven R. Bozarth and Thomas H. Guderjan. *Journal of Archaeological*

*Science* 31: 205-215.

- 2003 Appendix J: Fossil Pollen and Phytolith Analysis. In *From the Desert to the Mountains. Archaeology of the Transition Zone. The State Route 87 - Sycamore Creek Project. Volume 2: Analyses of Prehistoric Remains*, edited by Eric Eugene Klucas, Richard Ciolek-Torrello, and Rein Vanderpot. Technical Series No. 73. Statistical Research, Inc., Tucson, Arizona.
- 2002 Isotopic and Biosilicate Records from Playa-Lunette Systems of the High Plains in Kansas, by William C. Johnson, Steven R. Bozarth, and Joshua S. Campbell. *Current Research in the Pleistocene* 19: 122-123.
- 2002 Climate and Environmental Variability in the Rise of Maya Civilization - a Preliminary Perspective from Northern Peten, by Richard D. Hansen, Steven Bozarth, John Jacob, David Wahl, and Thomas Schreiner. *Ancient Mesoamerica* 13(2): 273-295.
- 2001 Implications for Late Pleistocene Mastodon Diet from Opal Phytoliths in Tooth Calculus, by Katrina Gobetz and Steven Bozarth. *Quaternary Research* 55:115-122.
- 2000 Reconstruction of Vegetative Histories and Paleoenvironments in Northeastern Kansas Based on Opal Phytolith Analysis. *Current Research in the Pleistocene* 17: 109-111.
- 2000 Diet and Paleoecology of Columbian Mammoth (*Mammuthus columbi*) Determined from Phytoliths and Diatoms in Teeth, by Katrina Gobetz and Steven Bozarth. *Current Research in the Pleistocene* 17:120-122.
- 2000 Microfossil Evidence of Agriculture and Wild Plant Utilization. In *A Highway Through Time: Archaeological Investigations Along NM 90 in Grant and Hidalgo Counties, New Mexico* (U.S. Forest Service Report 03-06-98-005b), edited by C.A. Turnbow, pp. 573-588. New Mexico State Highway and Transportation Department Technical Series 2000-3, Albuquerque.
- 1998 Phytolith Analysis of Bison Teeth Calculus and *Impacta* from Sites in Kansas and Oklahoma, by Steven R. Bozarth and Jack Hofman. *Current Research in the Pleistocene* 15: 95-96.
- 1997 Pollen and Phytolith Analysis. In *Vanishing River - Landscapes and Lives of the Lower Verde Valley, the Lower Verde Archaeological Project, Volume 2: Agricultural, Subsistence, and Environmental Studies*, edited by Jeffrey Homburg and Richard Ciolek-Torrello, pp. 179-204. SRI Press, Tucson, Arizona.
- 1995 Analysis of Fossil Biosilicates from the Valley Fill. In *Stratigraphy and Paleoenvironments of Late Quaternary Valley Fills on the Southern High Plains*, edited by Vance Holliday, pp. 161-171. *Geological Society of America Memoir* 186.
- 1994 Pollen and Phytolith Analysis. In *The Roosevelt Rural Sites Study - Prehistoric Rural Settlements in the Tonto Basin*, Vol. 3, edited by Richard Ciolek-Torrello and John R.

- Welsh, pp. 189-222, Technical Series No. 28, Statistical Research, Tucson, Arizona.
- 1993 Maize (*Zea mays*) Cob Phytoliths from a Central Kansas Great Bend Aspect Archaeological Site. *Plains Anthropologist* 38(146):279-286.
- 1993 Biosilicate Assemblages of Boreal Forests and Aspen Parklands. In *Current Research in Phytolith Analysis: Applications in Archaeology and Paleoecology*, edited by Deborah Pearsall and Dolores Piperno, pp. 202-227. MASCA (Museum Applied Science Center for Archaeology) Series, University of Pennsylvania, Vol. 10.
- 1992 Classification of Opal Phytoliths in Selected Dicotyledons Native to the Great Plains. In *Phytolith Systematics - Emerging Issues*, edited by George Rapp, Jr. and Susan Mulholland, pp. 193-214. Plenum Press, New York.
- 1992 Fossil Pollen and Phytolith Analysis. In *Archaeological Investigations at Lee Canyon, Coconino, Arizona*, edited by Stephanie M. Whittlesey, pp. 135-142. Technical Series No. 38, Statistical Research, Tucson, Arizona.
- 1990 Diagnostic Opal Phytoliths from Pods of Selected Varieties of Common Beans (*Phaseolus vulgaris*). *American Antiquity* 55:98-104.
- 1988 Preliminary Opal Phytolith Analysis of Modern Analogs from Parklands, Mixed Forest, and Selected Conifer Stands in Prince Albert National Park, Saskatchewan. *Current Research in the Pleistocene* 5:45-46.
- 1987 Diagnostic Opal Phytoliths from Rinds of Selected *Cucurbita* Species. *American Antiquity* 53:607-615.
- 1986 Morphologically Distinctive *Phaseolus*, *Cucurbita*, and *Helianthus annuus* Phytoliths. In *Plant Opal Phytolith Analysis in Archaeology and Paleoecology; Proceedings of the 1984 Phytolith Research Workshop*, edited by Irwin Rovner, pp. 56-66. Occasional Papers No. 1 of *The PHYTOLITHARIEN*, North Carolina State University, Raleigh.

#### **REPORTS OF INVESTIGATIONS/TECHNICAL REPORTS**

- 2004 Assessment of Biosilicate Preservation and Preliminary Paleoenvironment Reconstruction of Six Sites on Yellowhouse Draw, Lubbock, Texas. Report submitted to Eileen Johnson, Lubbock Lake Landmark Museum of Texas Tech University, Lubbock, Texas and Vance Holliday, University of Arizona, Tucson.
- 2004 Assessment of Phytolith Preservation at 41BL278. Report submitted to Mike Quigg, TRC Environmental, Austin, Texas.
- 2004 Opal Phytolith Analysis of a Grinding Slab at 14SD35. Report submitted to Kansas State Historical Society, Topeka.

- 2004 Assessment of Pollen and Phytolith Preservation at LA48098. Report submitted to James Gallison, Engineering-Environmental Management, Inc. Albuquerque, New Mexico.
- 2004 2004 Phytolith Analysis of Nakbé, Northern Peten, Guatemala. Submitted to Richard Hansen, RAINPEG, Institute of Geophysics and Planetary Physics UCLA.
- 2004 Opal Phytolith Analysis of two Hearths at 38BK1633. Report submitted to Brockington and Associates, Inc., Mt. Pleasant, South Carolina.
- 2004 Pollen and Phytolith Analysis. In *Across the Caja Del Rio Plateau II: Hunters and Farmers in the Northern Rio Grande. Archeological Investigations at 15 Sites in the NMARNG Camel Tracks Training Area, Santa Fe County, New Mexico*, prepared by Peggy A Gerow and Alexander Kurota, Office of Contract Archaeology, University of New Mexico, Albuquerque.
- 2004 Analysis of Opal Phytoliths, Pollen, and Charcoal Concentrations from a Pre-Hispanic Maya Field at Blue Creek, Belize. Report submitted to Program in Science, Technology, and International Affairs, Georgetown University., Washington, D.C.
- 2004 Pollen and Phytolith Analysis at Big Basin, Kansas. Data submitted to Department of Geography, University of Kansas.
- 2004 Opal Phytolith Analysis at 14CO1310. Draft report submitted to The Louis Berger Group, Inc., Marion, Iowa.
- 2004 Pollen and Phytolith Evidence of Agriculture, Wild Plant Utilization and Paleoenvironments - Fence Lake Project, West Central New Mexico. Revised report submitted to Statistical Research, Inc., Tucson, Arizona.
- 2003 Phytolith Analysis of Balam, Aak, and Muuch Houselots at Chunchucmil, Yucatan. Draft report submitted to Anthropology Department, University of California, Berkeley, California.
- 2003 Analysis of Opal Phytolith, Pollen, and Charcoal Concentration from a Prehispanic Maya Field at Blue Creek, Belize. Draft report submitted to Center for Environment, Georgetown University, Washington, DC.
- 2003 Appendix C: Opal Phytolith Analysis of Seven Samples from the Hot Spot Site, AZ T:7:159 (ASM). In *The Hot Spot Site, AZ T:7:159 (ASM): Archaeological Investigations of a Hohokam Rainfall Runoff Control Site Along the Agua Fria River, Maricopa County, Arizona*. Prepared by David E. Doyel and Eric S. Cox, URS Corporation, Phoenix, Arizona. URS Cultural Report 2003-27(AZ).
- 2003 Appendix C: Opal Phytolith Analysis of Rock Piles at Sites AZ T:14:77, 126, and 127 (ASM). In *Rock Piles and Cobble Petroglyphs West of the Maricopa Mountains: Data Recovery at Three Small Archaeological Sites Between Buckeye and Gila Bend, Maricopa County, Arizona*, prepared by A. E. (Gene) Rogge and Joel White, URS Corporation, Phoenix, Arizona. URS Cultural Resource Report 2003-22(AZ).

- 2003 Paleoenvironmental Reconstruction of the La Sena Site, Harry Strunk Lake, Nebraska, Based on Biosilicate Analysis. Ms. submitted to Steven Holen, Denver Museum of Nature & Science.
- 2003 Opal Phytolith Analysis at AZT:12:116 (ASM). Review draft submitted to Archaeological Consulting Services, Ltd., Tempe, AZ. (study of various habitation and water control features).
- 2002 Evidence of Agriculture and Ceremonies Based on Biosilicate Analysis. In "The Blue Creek Project: Working Papers from the 1998 and 1999 Field Seasons, by Steven Bozarth and Thomas H. Guderjan. Edited by Thomas H. Guderjan and Robert J. Lichtenstein, pp. 101-115. Maya Research Program, Texas Christian University, Fort Worth, Texas.
- 2002 Opal Phytolith Analysis at AZ:U:3:76 (ASM). Review draft submitted to Archaeological Consulting Services, Ltd., Tempe, AZ.
- 2002 Assessment of Pollen and Phytolith Preservation at Boca Negra Wash (LA 124474). Maxwell Museum, University of New Mexico, Albuquerque.
- 2002 Phytolith Analysis of Rio Viejo Residence Project, Oaxaca, Mexico. Department of Anthropology, UCLA.
- 2002 Opal Phytolith Analysis of Cooking Pits at AZ M:6:47 (ASM). Review draft submitted to Archaeological Consulting Services, Ltd., Tempe, AZ.
- 2002 Phytolith Analysis of Reservoir B at La Milpa, Belize. Review draft submitted to Vernon Scarborough, University of Cincinnati.
- 2002 Phytolith Analysis of 16<sup>th</sup> Century Tooth Calculus from Tipu, Belize. Ms. on file, Department of Anthropology, Plattsburgh State University, Plattsburgh, NY.
- 2002 Reconstruction of Vegetative Histories and Paleoenvironments at Zagoskin Lake (St. Michael Island), Norton Sound, Chukchi Sea, and Eva Creek, Alaska, Based on Opal Phytolith Analysis. Review draft submitted to USGS, Denver, CO.
- 2002 Opal Phytolith Analysis at AZ U:9:222 (ASM). Review draft submitted to Archaeological Consulting Services, Ltd., Tempe, AZ.
- 2001 Estudios Paleo-Botánicos de Nakbé: Evidencias Preliminares de Ambiente y Cultivos en el Preclásico. In XIV Simposio de Investigaciones Arqueológicas en Guatemala, editado por J.P. Laporte, Ana C. de Suasnavar, y Barbara Arroyo, pp. 419-436. Museo Nacional de Arqueología y Etnología, Ministerio de Cultura y Deportes, Instituto de Antropología e Historia, Asociación Tikal.
- 2001 Pollen and Biosilicate Evidence of Prehispanic Fields and Biosilicate Analysis of Tombs at Blue Creek, Belize. Review draft submitted to Maya Research Program, Texas

Christian University.

- 2001 Phytolith Investigations at El Bajio, Veracruz. Ms. on file, Department of Anthropology, Pennsylvania State University, University Park, PA.
- 2001 Pilot Phytolith and Pollen Analysis of 16<sup>th</sup> Century Tooth Calculus from Tipu, Belize. Ms. on file, Department of Anthropology, Plattsburgh State University, Plattsburgh, NY.
- 2001 Pollen and Phytolith Analysis of 48CR5844. Review draft submitted to Burns and McDonnell, Kansas City, Missouri.
- 2001 Paleoenvironmental Reconstruction of Sangamon, Gilman Canyon, and Farmdale Soils Based on Opal Phytolith Analysis. Review draft submitted to Dan Muhs, USGS, Denver, CO.
- 2000 Sampling Botanical Remains at Blue Creek, Belize, by Thomas H. Guderjan and Steven Bozarth. Report submitted to FAMSI (Foundation for the Advancement of Mesoamerican Studies, Inc.) [www.famsi.org/reports](http://www.famsi.org/reports)
- 2000 Estudios Paleo-Botánicos de Nakbé: Evidencias Preliminares de Ambiente y Cultivos en el Preclásico. In *Investigaciones Arqueológicas y Ecológicas en la Cuenca Mirador, 1998: Informe de la Temporada de Campo*, edited by R.D. Hansen and J. Valle: pp. 545-566. Proyecto Regional de Investigaciones Arqueológicas del Norte del Peten, Guatemala (PRIANPEG). UCLA RAINPEG, FARES Foundation, Idaho.
- 2000 Opal Phytolith Analysis of Prehistoric Hearths. Review draft submitted to TRC Mariah Associated, Albuquerque, N.M.
- 2000 Chapter 15: Opal Phytolith Analysis. In *Farmers and Foragers or Cultivators and Collectors?: Opportunistic Occupation in the Interior Desert of the Western Papagueria*, prepared by Matthew Hill Jr. and J. Simon Bruder, Dames and Moore Intermountain Cultural Resource Services Research Paper Number 57. (analysis of prehistoric hearths, artifact washes, and a pot break)
- 2000 Appendix G - Opal Phytolith Analysis. In *Passive Accumulations: Archaeological Investigations in Support of Reconstruction and Extension of Runway 12L-30R at Williams Gateway Airport, Mesa, Arizona*, prepared by Matthew Hill Jr. and J. Simon Bruder, Dames and Moore Intermountain Cultural Resource Services Research Paper Number 51. (analysis of ceramic and ground stone washes).
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### **PRESENTATIONS (ORAL AND POSTER)**

- 2004 Early Holocene Isotopic Shift in the Brady Paleosol, Central Great Plains (USA) (William C. Johnson, Steven R. Bozarth, and others). *Program with Abstracts, National Meeting, Geological Society of America (GSA), Denver, Colorado.*
- 2004 The Pleistocene - Holocene Transition as Viewed from Big Basin, Southwestern Kansas (Stacy Rosner, William C. Johnson, Joshua S. Campbell, Steven R. Bozarth, and Terri L. Woodburn). *Abstracts of the 18<sup>th</sup> Biennial Meeting, American Quaternary Association, Lawrence, Kansas.*
- 2004 25 Years of Maize Phytolith Research (Irene Holst, Dolores Piperno, Deborah Pearsall, Steven Bozarth, Jose Iriarte, Karol Chandler-Ezell, Robert Benfer Jr., Vicky Starczak, John Jones, Zhijun Zhao, Lisa Kealhofer, Linda Scott-Cummings, Richard Cooke, Anthony Ranere, and James Zeidler). *Abstracts of the 69<sup>th</sup> Annual Meeting, Society of American Archaeology, Montreal, Canada.*
- 2002 Landscape Evolution and the Potential for Preservation of the Cultural Record on Fort Riley, Kansas (William C. Johnson, Karen L. Willey, and Steven R. Bozarth). *Flint Hills Archaeological Conference, Manhattan, Kansas.*
- 2002 Pollen and Opal Phytolith Analysis of Ancient Maya Fields at Blue Creek, Belize. *Abstracts of the 67<sup>th</sup> Annual Meeting, Society of American Archaeology, Denver, Colorado.*
- 2001 Biosilicate Evidence of Cultivated Plants and Ceremonial Activities at Blue Creek, Belize. *Abstracts of the 66<sup>th</sup> Annual Meeting, Society of American Archaeology, New Orleans, Louisiana.*
- 2000 Biostratigraphy, Magnetostratigraphy and the Environmental History of Playas on the High Plains of Western Kansas (William C. Johnson, Steven R. Bozarth, Joshua S. Campbell, and Karen L. Willey). *Program with Abstracts, National Meeting, Geological Society of America (GSA), Reno, Nevada.*

- 2000 Playa Systems as Environmental Barometers of the Central Great Plains: Investigations in Kansas (William C. Johnson, Rolfe D. Mandel, Joshua S. Campbell, Karen L. Willey, and Steven R. Bozarth). *Program and Abstracts, National Meeting, American Quaternary Association, Fayetteville, Arkansas*. Vol. 32, no. 7, p. 223.
- 2000 Climatic and Environmental Variability in the Rise of Playa Civilization: A Perspective from Northern Peten (Richard Hansen, Steven Bozarth, Roger Byrne, John Jacob, and Thomas Schreiner). *Program with Abstracts, National Meeting, Society for American Archaeology, Philadelphia, PA*.
- 2000 Reconstruction of Late-Quaternary Landscape Evolution and Geoarchaeological Modeling at Ft. Riley, Kansas (William C. Johnson, Karen Willey, David Cochran Jr., and Steven Bozarth). *Program with Abstracts, National Meeting, Society for American Archaeology, Philadelphia, PA*.
- 1999 Chronologic, Pedologic, Rock Magnetic, Isotopic, and Biologic Signals from the Middle Wisconsinan Gilman Canyon Loess of the Central Great Plains (William C. Johnson, Karen Willey, David May, Joseph A. Mason, and Steven R. Bozarth). *Program with Abstracts, National Meeting, Geological Society of America, Denver, CO*. Vol. 31, no.7, p. 54.
- 1999 Late Pleistocene/Holocene Glacial and Paleoclimatic History of Titcomb Basin, Wind River Range, Wyoming Based on Lake Sediments and Cosmogenic Nuclide Dating. (J. Gosse, P.T. Davis, G. Burr, A.J.T. Jull, S. Bozarth, C. Sorenson, J. Klein, and B Lawn) *Program with Abstracts, National Meeting, Geological Society of America, Denver, CO*.
- 1999 Implications for Mammoth and Mastodon Diet from Phytoliths in Ancient Tooth Calculus (Katrina Gobetz and Steven R. Bozarth). *Kansas Society of Mammalogists Annual Meeting, Emporia State University*.
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## ***AFFILIATIONS***

Maya Research Program  
 Society of American Archaeologists  
 Center of Latin American Studies (K.U.)  
 KU Mayan Hieroglyphic Society

Society for Phytolith Analysis  
 Native Seeds/SEARCH  
 Nature Conservancy  
 National Geographic Society

November

2004