

Edward W. Herrmann
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Current Employment

INDIANA UNIVERSITY, Department of Geological Sciences
Research Scientist, Geoarchaeology 8/2013-Present

Research Affiliate, Glenn A. Black Laboratory of Archaeology
Research Affiliate, Indiana Geological Survey
Research Associate, Indiana University Anthropology Department

Education

Indiana University, Bloomington, Indiana

Ph.D., Anthropology (Archaeology) 5/2013

Minor: Geology

Dissertation Title: "Geoarchaeology of Paleoindian and Early Archaic Site
Distributions in the White River Valley, Indiana"

M.A., Anthropology 4/2010

University of Cologne, Cologne, Germany

Institut für Ur- und Frühgeschichte, Guest Student, 8/2005 to 6/2006

Studied for two semesters, with a full course load concentrating on the peopling
of Europe and the Upper Paleolithic Era.

Cornell University, Ithaca, New York

B.S., Biological Sciences, 1987

Professional Service

Co-Editor, Newsletter for the Geoarchaeology Interest Group of the Society of
American Archaeology. 2014-2015

Co-Editor, Newsletter for the Archaeological Geology Division of the Geological
Society of America. 2014-2015

Archaeology Experience

**National Science Foundation Research Experience for Undergraduates (REU):
Multidisciplinary Training for Students in Environmental and Social Sciences
through Archaeological Research (IUPUI)**

Senior Scientist, Instructor, Summers 2013-2015

Grapevine Creek Buffalo Jumps Project, Crow Agency, Montana

Investigator and Instructor for Crow Tribal Historic Preservation Office 6/2015-7/2015
Led team of tribal monitors performing archaeological survey and excavation at Grapevine Creek. Discovered buffalo jumps and taught geoarchaeological methods.

Rockhouse Hollow Rockshelter Project.

Principal Investigator for excavation in the Hoosier National Forest. 7/2014-8/2014
Led field school focused on sediments and stratigraphy within rockshelter to understand archaeological context of 1961 excavations.

Glenn A. Black Laboratory of Archaeology: Lithic Raw Material Comparative Collection Supervisor

Organized and identified lithic samples and created database, 8/2010-8/2013
Responsible for supervising lithic comparative collection that includes over 500 lithic types. Organized Midwestern Lithic Exchange (2010). Organized sample drawers and supervised documentation, photographs, and online database which can be accessed by professional archaeologists.

Jeffersonville Parking Lot Coring Project, Jeffersonville, Indiana

Core sediment analyst, 3/2013-4/2013
Analyzed depositional history of sediment cores for Cultural Resource Analysts, Inc. and Glenn A. Black Laboratory of Archaeology.

George Rogers Clark Project, Vincennes, Indiana

Geoprobe coring rig operator, core sediment analyst and fieldworker, 1/2012
Assessed history of soil formation and sedimentation of historic archaeological site for cultural resources management project with Commonwealth Cultural Resource Group, Inc. for the National Park Service, Midwest Center.

Serpent Mound Project, Adams County, Ohio

Geoprobe coring rig operator, core sediment analyst and supervisor, 9/2011
Part of geoarchaeological team investigating how and when the Serpent Mound was constructed. Identified stratigraphic sequences and buried organic matter for radiocarbon dating at Serpent Mound.

Mississippi and Red River Geomorphic Study, LaCrosse and Prairie du Chien, Wisconsin

Geoprobe coring rig operator, core sediment analyst and fieldworker, 7-8/2010
Part of geoarchaeological team hired by the United States Army Corps of Engineers studying geomorphic landform changes in the Mississippi and Red River valleys since the Last Glacial Maximum.

Indiana University, Bloomington, Indiana

Bradford Woods Survey and Research Supervisor, 8-10/2008, 5-8/2009

Led crew of 11 graduate and undergraduate students conducting Phase I survey at Bradford Woods in Morgan County Indiana. This work was part of my dissertation research and our team located 44 previously unreported Paleoindian, Archaic and historic sites.

Field School Supervisor, 5/2008 to 6/2008

Led undergraduate teams excavating at Angel Mounds Field School in association with the Glenn A. Black Laboratory of Archaeology.

Field School Participant, 6/2007 to 7/2007

Worked in the Bighorn River Basin and the Bridger/Teton National Forest mapping and excavating sites while conducting survey in the region.

University of Cologne, Cologne, Germany

Excavator, 7/2006 to 8/2006

Worked on cave site in connection with university teaching excavation. Responsible for cave mapping, excavation, grid and construction.

Römisch-Germanisches Museum, Cologne, Germany

Excavator, 10/2005 to 6/2006

Worked 20 hours per week on excavations within original Roman city walls. Responsible for site excavation, documentation, site measurement, sketching, artifact cleaning and training of new hires.

Awards/Grants

Rockhouse Hollow Rockshelter Field Work Grant. \$6000 grant from the Hoosier National Forest for archaeological excavations at rockshelter, July-August 2014.

Prehistory Research Fellow, Glenn A. Black Laboratory of Archaeology.

Awarded fellowship stipendium and funding for coursework and fieldwork, 2008-2011.

John B. Patton Award Recipient. Indiana University Geological Sciences Department and Indiana Geological Survey award of \$1500 for geological field research. April 2011.

Indiana Academy of Sciences Research Grant. Field research grant of \$2975. April 2011.

SKOMP Award Recipient. Indiana University Anthropology Department award of \$1785 for field research. April 2011.

Publications

Herrmann, E.W. (accepted August, 2015). How Bedrock-controlled Channel Migration can Structure Selective Preservation of Archaeological Sites: Implications for Modeling Paleoindian Settlement. *Geoarchaeology*.

Herrmann, Edward W. (2015). Prehistoric Food Preservation, encyclopedia entry in *The Archaeology of Food*, eds. Mary Beaudry, Karen Metheny. AltaMira/Rowman & Littlefield, publishers.

Herrmann, Edward W., Monaghan, G.W., Romain, W.F., Schilling, T.M., Burks, J., Leone, K.L., Purtill, M.P., Tonetti, A.C. (2014). A New Multistage Construction Chronology for the Great Serpent Mound, USA. *Journal of Archaeological Science* 50, 117-125. DOI: 10.1016/j.jas.2014.07.004

Herrmann, Edward W. (2013). Pre-Mississippian Projectile Points in Mississippian Context at Angel Mounds. *Midcontinental Journal of Archaeology*, 38(2):189-204.

Published Maps

Keith, B.D., Thompson, T.A., **Herrmann, E.W.**, Rupp, R.F., and Hasenmueller, W.A. (2014). Geologic Map of Lawrence County, Indiana. Indiana Geological Survey Miscellaneous Map 90, Scale: 1:48,000.

Keith, B.D., Thompson, T.A., Herrmann, E.W., Rupp, R.F., Hasenmueller, W.A., and Johnson, M.R. (2014). Geology of Lawrence County, Indiana (digital compilation). Indiana Geological Survey, unpublished IGS digital data [ESRI geodatabase based on the NCGMP09 geodatabase model], Scale: 1:48,000.

Publications in Preparation

Herrmann, E. W., Monaghan, G.W. and Rowe, M.J. Holocene paleoenvironmental change, drainage basin development, and human settlement within a midcontinental river valley, southcentral Indiana, USA.

Herrmann, Edward W., G. William Monaghan, Timothy M. Schilling, Jarrod Burks, Karen Leone, Matthew P. Purtill, Alan C. Tonetti and William F. Romain. Radiocarbon Dating of Serpent Mound, in *Serpent Mound Revealed: Context, Archaeology, and Meaning*, ed. William F. Romain, University of Alabama Press. Book Chapter submitted to editor for review May 2015.

Herrmann, E.W. Paleoindian Presence in Indiana. In *Archaeology of Indiana*, Meghan Buchanan and Jayne-Leigh Thomas, editors, Indiana University Press.

Herrmann, Edward W. and G. William Monaghan. Charcoal Preservation in A Horizons: Implications for Dating Buried Stratigraphy.

Ronald Counts, G. William Monaghan, **Edward W. Herrmann**. Quaternary Geology and Geoarchaeology of the Lower Ohio River Valley, Southwestern Indiana, pp 1-77. 56th Midwest Friends of the Pleistocene Field Conference May 30-June 1, 2014.

Keith, B.D., Thompson, T.A., **Herrmann, E.W.**, Rupp, R.F., and Hasenmueller, W.A. (2014). 12 Quadrangle Geologic Maps of Lawrence and Surrounding Counties, Indiana. Indiana Geological Survey Quadrangle Maps (Bartlettsville, Bedford East, Bedford West, Campbellsburg, Georgia, Huron, Mitchell, Norman, Oolitic, Owensburg, Williams, Tunnelton), Scale: 1:24,000.

Archaeological Reports

Herrmann, E.W. and Doyle, A. 2015. Investigations at Rockhouse Hollow Rockshelter in the Hoosier National Forest, Perry County, Indiana. Archaeological Site Report of Investigations submitted to state Department of Historic Preservation and the Hoosier National Forest.

Herrmann, E.W., and Rebecca Nathan (in preparation) . The Grapevine Creek Buffalo Jumps, Crow Agency, Montana. Archaeological Site Report of Investigations.

Baumann, T., Monaghan, G.W., **Herrmann, E.W.** and Altizer, V. 2015. "Mystery Domes:" The 2013 Passport in Time (PIT) Project on German Ridge in the Hoosier National Forest, Perry County, Indiana. Glenn A. Black Laboratory of Archaeology, Indiana University, Bloomington, Indiana.

The Bradford Woods Pedestrian Survey. Glenn A. Black Laboratory of Archaeology Report of Investigations 13-02, pp 1-54. August, 2013.

The Robb Hill Survey at Bradford Woods, Morgan County, Indiana. Glenn A. Black Laboratory of Archaeology Report of Investigations 13-01, pp 1-59. August, 2013.

Report of Investigations 09-01, Robb Hill Survey at Bradford Woods, Morgan County, Indiana, April 20, 2009.

Published Abstracts

"Rockhouse Hollow Rockshelter Revisited: Geoarchaeological Investigations." Paper presentation, Society of American Archaeology Conference, San Francisco, California. April 16, 2014.

"Paleoindians in the Floodplain: How Bedrock-control can Structure Archaeological Site Preservation." Paper presentation, Midwestern Archaeological Conference, Champaign, IL, October 2014.

"Mississippian High Ground: Human Transformation of the Landscape at Lawrenz Gun Club." Savanna Johnson, Edward Herrmann, G. William Monaghan, Mark R. Schurr, and Matthew D. Pike. Poster presentation, Midwestern Archaeological Conference, Champaign, IL, October 2014.

"Terraforming and the Human-modified Landscape at the Lawrenz Gun Club Site (11Cs4)." Ashley Packard, Edward Herrmann, G. William Monaghan, Aaron Stump, and Matthew Pike. Poster presentation, Midwestern Archaeological Conference, Champaign, IL, October 2014.

The Geochemistry and Historical Ecology of a Burnt Mississippian House at the Lawrenz Gun Club Site. Eliza Kane, Kristen Twidt, Gabriel Filippelli, G. William Monaghan, Edward Herrmann, Jessica Adamic, and Aaron Stump. Poster presentation, Midwestern Archaeological Conference, Champaign, IL, October 2014.

"The German Ridge Project: Living on the Edge in the Hoosier National Forest in Southern Indiana." Timothy Baumann, George Monaghan, Angie Krieger and Edward Herrmann. Paper presentation, Society of American Archaeology Conference, Austin TX, April 24, 2014.

"The Late Holocene Built Landscape at Angel Mounds: Results of NSF-Reu Research on Earthworks at Angel Mounds, Indiana." G. William Monaghan, Jeremy Wilson, Sarah Swartz, Matthew Pike, James Durbin, Ronald Counts, Edward Herrmann, Ashleigh Thompson. Poster presentation, Geological Society of America Conference, Denver, CO, October 27, 2013.

"Paleoliquefaction within Mound F at Angel Mounds: Evidence for Late Holocene seismicity in the Midcontinental USA from an Archaeological Site, Southwestern Indiana." Ronald Counts, G. William Monaghan, Jeremy Wilson, Matthew Pike, Edward Herrmann. Poster presentation, Geological Society of America Conference, Denver, CO, October 27, 2013.

"The Low Mounds at Angel: Mounds C, B, and H." G. William Monaghan, Matthew Pike, Natasha R Maxwell, Nathan J Dubinin, Edward Herrmann. Poster presentation, Midwestern Archaeological Conference, Columbus Ohio, October 25, 2013.

"Geoarchaeology of Paleoindian-aged Landforms: Geomorphological Influences from the Midcontinent." Poster presentation, The Paleoindian Odyssey Conference, Santa Fe, New Mexico, October 14, 2013.

"Geomorphological Controls Affecting the Creation and Preservation of a Buried Wetland Environment during the Pleistocene/Holocene Transition: A Geoarchaeological Perspective." Paper presentation at the Geological Society of America Regional Conference, Kalamazoo, Michigan, May 2, 2013.

"Geoarchaeological Investigations of the White River Valley, South-Central Indiana." Paper presentation, Midwestern Archaeological Conference, East Lansing, Michigan, October 18, 2012.

"The Midwest Lithic Repository at the Glenn A. Black Laboratory of Archaeology." Edward Herrmann, Robert Mahaney, Tim Baumann, and Loren Clark. Poster presentation, Midwestern Archaeological Conference, La Crosse, Wisconsin, October 14, 2011.

"The Midwest Lithic Repository at the Glenn A. Black Laboratory of Archaeology." Tim Baumann, Robert Mahaney, Edward Herrmann, and Loren Clark. Paper Presentation, Indiana Archaeological Council, January 2011.

"Paleoindian and Early Archaic Settlement Patterns in South-Central Indiana." Paper presentation, Midwestern Archaeological Conference, Bloomington, Indiana, October 21, 2010.

"A Geoarchaeological Approach to Paleoindian and Early Archaic Settlement and Subsistence in South-Central Indiana." Poster presentation, Society for American Archaeology Annual Meeting, St. Louis, MO, April 14, 2010.

"Paleoindian and Archaic Period Investigations at Bradford Woods, Morgan County, Indiana." Poster presentation, Midwestern Archaeological Conference, Iowa City, Iowa, October 15, 2009.

Classes Taught

"Great Fermentations: Food Preservation in Prehistory." Instructor for Anthropology of Food class (3 credits), Anthropology Department, Indiana University, Bloomington. Spring Semester, 2013.

"Introduction to Archaeology." Associate Instructor, taught three sections and gave occasional lectures. Fall Semester, 2012.

"The Archaeology and Appreciation of Beer." Instructor for Indiana University Continuing Education Department Sept./Oct. 2010, Feb./Mar. 2011, and Sept./Oct. 2011.

Invited and Service Lectures

"Beer in Prehistory." Lecture for Indiana University Purdue University Indianapolis Undergraduate Anthropology Association. April 3, 2015.

"Rockhouse Hollow Rockshelter Revisited." Lecture for the Glenn A. Black Laboratory of Archaeology, Bloomington, Indiana. March 26, 2015.

"Prehistoric People of Lawrence County, Indiana." Keynote speaker for Lawrence County Soil and Water Conservation District, USDA, Bedford, Indiana. February 2, 2015.

"Prehistoric Flintknapping." Public talk and demonstration for Discovering Archaeology month at the Glenn A. Black Laboratory of Archaeology, Bloomington, Indiana. September 27, 2014.

"Geoarchaeology of Paleoindian and Early Archaic Site Distributions in the White River Valley, Indiana." Dissertation defense public lecture, Glenn A. Black Laboratory of Archaeology Auditorium, Indiana University, Bloomington, Indiana. March 27, 2013.

"Early Technologies Demonstrations." Lecture and demonstrations focused on stone tool manufacturing for elementary students and Archaeology Month visitors at Strawtown Archaeological Site, Strawtown, Indiana. September 20 & 21, 2012.

"Experimental Archaeology Demonstrations." Early technologies talk and demonstrations for Middle School students at the Angel Mounds
"Archaeology C.S.I. Day" at Angel Mounds State Historic Site, Evansville, Indiana. May 18, 2012.

"Stone Tools: Materials, Meaning & Manufacture." Invited guest lecture for Angel Mounds Field School, Evansville, Indiana, May 17, 2012.

"What clues do archaeologists use when uncovering the past?" Guest lecture and demonstration at Arlington Heights Elementary School, Bloomington, IN. For teachers Judy Best and Ann Shedlak, December 5, 2011.

"Prehistoric Technologies." Guest lecture for six classes at Bedford North Lawrence High School, Bedford, Indiana. For teacher Lacy Hawkins, August, 2011.

“Early Holocene Peoples of the White River Valley.” Research Series public talk for at the Glenn A. Black Laboratory of Archaeology, Bloomington, Indiana, October 8, 2010.

“Prehistoric Stone Tool Production.” Talk and flintknapping demonstration, Community outreach and education day at Bloomington Montessori School November 10, 2009.

“Archaeology as a Career” talk and flintknapping demonstration, Grandview Elementary Career days, October 8, 2008.

Other Professional Experience

Upland Brewing Company, Bloomington, Indiana

Brewmaster and Marketing Director, 11/1999 to 2/2005

Responsible for all aspects of brewery management, including production, hiring, quality control, government reporting, recipe development, packaging, laboratory procedures, sanitation protocols, tasting panels, and forecasting. Marketing responsibilities included sales, budgeting, advertising, distributor relations and programs. Grew business from 1,000 to over 5,000 barrels per year, becoming Indiana’s largest brewery.

Received *Great American Beer Festival Gold Medal* in 2002 (Wit Ale), *GABF Silver Medal* in 2003 (Pale Ale), and *World Beer Cup Bronze Award* in 2004 (Porter).

The 12 Apostles Brewpub, Frankfurt, Germany

Apprentice and Assistant Brewer, 9/1994 to 6/1996

Learned the art of German brewing under the direction of a Czech brewmaster. Responsible for lager rooms, fermentation and brewing.

The Purdue Frederick Company

Product Manager, Corporate Headquarters, 5/1992 to 9/1994

Responsible for marketing, advertising, market analysis, copy development, forecasting, budgeting, sales support and national meeting presentations of a timed-release theophylline and narcotic analgesic.

Professional Sales Representative, 1/1991 to 4/1992

Moved territory from lowest rank nationally to top third.

Abbott Laboratories

Substance Abuse Specialist, 10/1989 to 1/1991

Piloted market research program in New York State reviewing potential diversification of sales force; member of resulting sales force.

Diagnostic Systems Specialist, 8/1987 to 10/1989
Managed territory generating \$1.3 million annually.

Self-employment

Brewery Consultant, *9/2006 to present*

Work with regional brewers, focusing on beer quality, flavor production and manipulation, process and expansions.

Professional Organization Membership

Register of Professional Archaeologists

Geological Society of America

Society for American Archaeology

Midwestern Archaeological Conference

Skills

Fluent German

Flintknapping