

Dr. Eleanora A. Reber
University of North Carolina Wilmington
Anthropology
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Education

Harvard University
Ph. D., 2001 *Maize Detection in Absorbed Pottery Residues: Development and Application*
A.M., 2001
Beloit College, Bachelor's of Science (Archaeology and Chemistry), 1995

Appointments

University of North Carolina at Wilmington
Department Chair, Anthropology, 2010-present
Associate Professor, 2008-present
Assistant Professor, 2003-2008
Lecturer, 2001-3
Harvard University, Assistant Head Teaching Fellow, 1998
Cahokia Palisade Project, Field School Supervisor, 1998-9
Harvard University Teaching Fellow, 1998-9

Current Research Interests

The rise of complexity in the American Bottom
Analysis of absorbed and visible archaeological residues through gas chromatography/mass spectrometry
Identification of maize and the Black Drink in residues
Form/function relationships in pottery
The application of irrationality theory and behavioral economics to archaeology
Light stable isotope analysis

RESEARCH

Peer-Reviewed Publications

In press Reber, Eleanora A. and Matthew T. Kerr Absorbed residue analysis of pottery sherds from the Graveline Site. In *The Graveline Site*, edited by John Blitz. Jackson, Mississippi: Mississippi Dept of Archives and History Archaeological Report Series.

Baumann, Timothy E., Tammie L. Gerke and Eleanora A. Reber. Sun circles and science: negative painted pottery from the Angel Site (12Vg1). *Midcontinental Journal of Archaeology*. Expected date of publication, 2013.

Reber, Eleanora A. Applications of Gas Chromatography (GC-MS) in *Encyclopedia of World Archaeology*, edited by Christian Wells.

Reber, Eleanora A., Cunningham, Sarah L. In Hanneke Hoeffman-Sites and Maria Raviele (Ed.), *Absorbed Residue Analysis from the George Reeves site (11S650), an Emergent Mississippian blufftop settlement*. Boulder, Colorado: University of Colorado Press.

2012 Reber, Eleanora A. and Matthew T. Kerr. The persistence of caffeine in experimentally produced black drink residues. *Journal of Archaeological Science*, 39(7): 2312-2319.

- 2010 Reber, Eleanora A., John H. Blitz, and Claire E. Thompson. Direct Determination of the contents of a ceramic bottle from the Moundville site, Alabama. *Midcontinental Journal of Archaeology*, 35(1): 37-56.
- 2008 Reber, Eleanora A. and John Hart. Pine resins and pottery sealing: analysis of absorbed and visible pottery residues from central New York state. *Archaeometry* 50(6): 999-1017.
- Hart, John P, Eleanora A. Reber, Robert G. Thompson, and Robert Lusteck. Taking variation seriously: Testing the steatite mast-processing hypothesis with microbotanical data from the Hunter's Home site, New York. *American Antiquity* 73(4): 729-741.
- Reber, Eleanora A. and John Hart. "Visible clues: The analysis of visible pottery residues from New York state with Gas chromatography/mass spectrometry," in *Current Northeast Paleoethnobotany II*, edited by John P. Hart. New York State Museum Bulletin 512.
- 2007 Reber, Eleanora A. "Analysis of botanical remains: organic residue analysis," in *Encyclopedia of Archaeology*, edited by Deborah M. Pearsall.
- Reber, Eleanora A. The well-tempered pottery analysis: residue and typological analysis of potsherds from the Lower Mississippi Valley. *Theory and Practice of Archaeological Residue Analysis*, edited by H. Barnard and J. Eerkens, *BAR International Series* 1650: 148-160.
- 2006 Reber, Eleanora A. and Richard P. Evershed. Ancient Vegetarians? Absorbed pottery residue analysis of diet in the Late Woodland and Emergent Mississippian periods of the Mississippi Valley. *Southeastern Archaeology* 25(1): 111-120.
- Reber, Eleanora A. A Hard Row to Hoe: Changing Maize Use in the American Bottom and Surrounding Areas. *Histories of Maize: Multidisciplinary Approaches to the Prehistory, Biogeography, Domestication, and Evolution of Maize*, edited by John Staller, Robert Tykot, and Bruce Benz, pp. 235-248.
- 2004 Reber, Eleanora A., Stephanie N. Dudd, Nikolaas J. van der Merwe, and Richard P. Evershed. Direct detection of maize processing in archaeological pottery through compound-specific stable isotope analysis of *n*-dotriacontanol in absorbed organic residues. *Antiquity* 78(301): 682-691.
- Reber, Eleanora A. and Richard P. Evershed. Identification of maize in absorbed organic residues: a cautionary tale. *Journal of Archaeological Science*, 31(4): 399-410.
- Reber, Eleanora A. and Richard P. Evershed. How did Mississippians prepare maize? The application of compound specific carbon isotopic measurements to absorbed pottery residues from several Mississippi Valley sites. *Archaeometry* 46(1): 19-33.
- 1998 Galloy, Joseph M., Ronald L. Sanders, Brant Vollman, James Fitzsimmons, Eleanora A. Reber, Kathryn E. Parker, Eve Hargrave and Kristin Hedman. Summary Report on 1995 Excavations at the Barton Site (23SL69), St. Louis County, Missouri. *Missouri Archaeologist* 59: 99-124.

Reports

- 2012 Reber, Eleanora A. *Absorbed Residue Analysis of 21 Sherds from the El Chorro de Maita site, Holguin, Cuba*. Papers of the UNCW Residue Lab 16, UNCW Anthropological Papers 21. Wilmington, NC.
- Reber, Eleanora A. *Gas chromatographic-mass spectrometric analysis of extracts from AR2 and a lanolin standard*. Papers of the UNCW Residue Lab 15, UNCW Anthropological Papers, 20. Wilmington, NC.

- Reber, Eleanora A. and Matthew T. Kerr. *Absorbed Residue Analysis of 10 Pottery Sherds from 8SU377*. Papers of the UNCW Residue Lab 14, UNCW Anthropological Papers, 19. Wilmington, NC.
- Reber, Eleanora A. *Absorbed Residue Analysis of 22 Weeden Island Plain and Wakulla Check Stamped sherds from 8GD106*. Papers of the UNCW Residue Lab 13, UNCW Anthropological Papers, 18. Wilmington, NC.
- 2011 Reber, Eleanora A. and Matthew T. Kerr. *Absorbed Residue Analysis of 11 sherds and 1 soil sample from the Graveline Mound site, Mississippi*. Papers of the UNCW Residue Lab 12, UNCW Anthropological Papers, 17. Wilmington, NC.
- 2010 Reber, Eleanora A., Huie, Patience *Absorbed Residue Analysis of 22 Pottery Sherds from PO-29, Ponce, Puerto Rico*. Papers of the UNCW Residue Lab 11, UNCW Anthropological Papers, 16. Wilmington, NC.
- Reber, Eleanora A. *Preliminary Study of Absorbed Residues from Angel Mounds*. Papers of the UNCW Residue Lab 9, UNCW Anthropological Papers 14. Wilmington, NC. (vol. 14, pp. 33).
- Reber, Eleanora A. *Absorbed and Visible Lipid Residue Analysis of 6 sherds from the El Chorro de Maíta site, Holguín, Cuba*. Papers of the UNCW Residue Lab 10, UNCW Anthropological Papers, 15. Wilmington, NC.
- 2009 Reber, Eleanora A. *Testing Variation: Visible Residue Analysis from Seven Northeastern Pots*. Papers of the UNCW Archaeology Residue Lab 8, UNCW Anthropological Papers 13. Wilmington, NC.
- Reber, Eleanora A. *Absorbed residues from a Chronological Series of Pottery from South Carolina*. Papers of the UNCW Archaeology Residue Lab 7, UNCW Anthropological Papers 12. Wilmington, NC.
- Reber, Eleanora A. *Absorbed and Visible Residues from Site 11 PI1771, Pike County, Illinois*. UNCW Anthropological Papers 11, Papers of the UNCW Archaeology Residue Lab 6. Wilmington, NC.
- Reber, Eleanora A. *Colonoware Residues from the Dean Hall Site*. UNCW Anthropological Papers 9, Papers of the UNCW Archaeology Residue Lab 5. Wilmington, NC.
- 2008 Reber, Eleanora A. *Fishing for Residues: Absorbed Pottery Residue Analysis of Thirty-Seven Sherds from North Carolina*. UNCW Anthropological Papers 8, Papers of the UNCW Archaeology Residue Lab 4. Wilmington, NC.
- 2006 Reber, Eleanora A. *Just Scraping the Surface: Visible Pottery Residue Analysis of Thirty-Four Samples from Central New York State*. Papers of the UNCW Archaeological Residue Lab 3, UNCW Anthropological Papers 5. Wilmington, NC.
- 2005 Reber, Eleanora A. *Pining for Maize: Absorbed Pottery Residue Analysis of Twelve Sherds from Upstate New York*. Papers of the UNCW Archaeological Residue Lab 2, UNCW Anthropological Papers 4. Wilmington, NC.
- 2003 Reber, Eleanora A. *The Fragrant Blob: possible origins of a fragrant essence extracted from a pumice fragment at the site of Cumae/Isis*. Papers of the UNCW Archaeological Residue Lab 1, UNCW Anthropological Papers 3. Wilmington, NC.
- 2001 Reber, Eleanora A. "Report on a preliminary project on the identification of maize in absorbed pottery residues from sites throughout the New World," in *Archaeological Data Recovery Excavations and Monitoring New Jersey Route 29, City of Trenton, Mercer County, New Jersey, Volume V: Supplementary Technical Materials*. Hunter Research, Inc.

- 1997 Fitzsimmons, James and Eleanora A. Reber. "Faunal remains analysis," Appendix E in *Late Prehistoric Life Along the Missouri River I: The Barton Site (23SL60)*, edited by Joseph M. Galloy. Hanson Engineers Inc.

Selection of Presentations Given

- 2012 Reber, Eleanora A. "Background Residues: Pottery Firing and Lipid Persistence." Paper presented at the 77th Annual Meeting of the Society for American Archaeology, Memphis, TN.
- Kerr, Matthew T. and Eleanora A. Reber. "The Brunswick Town-Fort Anderson Project: A Baseline Study of Absorbed Pottery Residues from 31BW376**12." Paper presented at the 77th Annual Meeting of the, Society for American Archaeology, Memphis, TN.
- 2011 Reber, Eleanora A. and Matthew T. Kerr "Diagenesis and Soil-Sherd Interactions in Experimentally Produced Black Drink Residues." Paper presented at the 76th Annual Meeting of the Society for American Archaeology, Sacramento, CA.
- 2010 Baumann, Timothy E., Tammie L. Gerke, J. Marshall, and Eleanora A. Reber "The Manufacture and Use of Negative Painted Pottery at the Angel Site." Paper presented at the Cahokia Conference 2010, Cahokia Mounds State Historic Site, Cahokia Mounds, Collinsville, IL.
- Reber, Eleanora A. "Absorbed Residue Analysis from the George Reeves site (11S650), an Emergent Mississippian blufftop settlement." Paper presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis, MO.
- 2008 Reber, Eleanora A. "Nuts to Us! Detecting Nut Processing through Absorbed Residue Analysis." Paper presented at the 65th Annual Southeastern Archaeological Conference, Charlotte, NC.
- 2007 Reber, Eleanora A. "A North American Southeast Native Source of Caffeine: *Ilex vomitoria* and the 'Black Drink.'" Invited presentation and paper at the Eastern Analytical Symposium and Exposition, Somerset, NJ.

TEACHING EXPERIENCE

University of North Carolina Wilmington

ANT 105, Intro To Anthropology
ANT 207, General Archaeology
ANT 292, Experimental Archaeology
ANT 308, Old World Archaeology
ANT 311, Field School in Archaeology
ANT 312, Collapse: The Fall of Complex Civilizations
ANT 440, Seminar in Southeastern Archaeology
ANTL 207, Archaeology Lab

Harvard University

B-29, Human Behavioral Biology, Assistant Head Teaching Assistant
B-29, Human Behavioral Biology, Teaching Assistant
SO-50, Urban Revolutions: Archaeology and the Investigation of Early States, Teaching Assistant

Professional Service and Memberships

Reviewer, *Journal of Archaeological Science* (2002-present)
Associate Editor for Archaeological Chemistry, SAS Bulletin, Society for Archaeological Sciences. (August 2002 - 2010).
Southeastern Archaeological Conference. (September 2000 - Present).
Midwestern Archaeological Conference. (2007 - Present).

Society of American Archaeologists. (March 1998 - Present).
American Anthropological Association. (2000 - Present).
Society of Archaeological Sciences, (2002 – Present).
American Chemical Society. (2002 - Present).
Lambda Alpha. (2002 - Present).
Sigma Xi. (2001 - Present).
Cahokia Mounds Museum Society. (1998 - Present).