

## Sean M. Rafferty

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### Education:

- 2001: Ph.D., Anthropology, Binghamton University  
Dissertation: *They Pass Their Lives in Smoke, and at Death, Fall into the Fire: Smoking Pipes and Mortuary Ritual during the Early Woodland Period.*
- 1994: M.A., Anthropology, S.U.N.Y Binghamton
- 1990: B.A., Anthropology, Hartwick College, Oneonta New York

### Professional History:

- 2009-pres. Associate Professor, Dept. of Anthropology, University at Albany
- 2002-2009. Assistant Professor, Dept. of Anthropology, University at Albany.
- 2004-pres. Editor, *Northeast Anthropology*. Internationally distributed journal with a focus on anthropological research in Northeastern North America.

### Course List (as of Fall 2009):

Ant 104, Introduction to Archaeology (6 semesters); Ant 131, Ancient Peoples of the World (5 semesters); Ant 236, American Indian Archaeology (2 semesters); Ant 330, Archaeometry (1 semester); Ant 335, Introduction to Archaeological Field Techniques (7 semesters); Ant 338, Archaeological Field Research (3 semesters); Ant 431, Archaeometry (1 semester); Ant 431, Public Archaeology (2 semesters); Ant 435, Archaeology of Eastern North America (2 semesters); Ant 499, Senior Seminar in Anthropology (1 semester); Ant 504, Proseminar in Archaeology (2 semesters); Ant 531, Archaeometry (1 semester); Ant 531, Public Archaeology (2 semesters); Ant 535, Ancient Technology (1 semester); Ant 535, Archaeology of Eastern North America (2 semesters); Ant 628, Archaeological Field and Lab Techniques (6 semesters); Ant 631, Archaeology of Death (3 semesters); Ant 631, Cognitive Archaeology (1 semester); Ant 631, Archaeology of Eastern North America (1 semester); Ant 631, Archaeology of Religion (1 semester)

### Research Grants:

- 2008: Residue Analysis of Alkaloids. National Science Foundation, Principle Investigator; S. Swiny and I. Lednev, co-Principal Investigators (\$122,410, granted for June 1, 2008-June 1, 2010).
- 2007: University at Albany College of Arts and Sciences, Faculty Research Allocation Program (FRAP); Grant to conduct Raman microscopy analysis of Cypriot pottery for presence of Opium Residues (Granted \$3,400).
- 2006: University at Albany College of Arts and Sciences, Faculty Research Allocation Program (FRAP) Grant to fund pilot study for the establishment of a center for artifact analysis in collaboration with the University at Albany Ion Beam Laboratory (granted \$8,870).
- 2005: University at Albany Faculty Research Assistance Program (FRAP) Grant to conduct feasibility study of a Center for Artifact Analysis in cooperation with the Ion Beam Lab of the University at Albany (granted, \$8,000).
- 2005: University at Albany, Conference Support Program, grant to support 2006 annual meetings of Northeast Anthropological Association (granted \$1,000).

- 2004: University at Albany College of Arts and Sciences, Faculty Research Allocation Program (FRAP) Grant to fund source area analysis equipment for Schoharie Valley Project (granted \$4,000).
- 2004: College of Arts and Science, CAS, University at Albany. Grant to support establishment of academic journal (*Northeast Anthropology*) at the University at Albany (granted, \$3,000).
- 2003: College of Arts and Sciences (CAS), University at Albany; Grant to Establish an Archaeometric Research Facility Focusing on Residue Analysis (granted \$2,150).
- 1998: National Science Foundation (NSF) Dissertation Improvement Grant: A Regional Analysis of Smoking Pipes During the Early Woodland Period (Grant #SBR-9812751) (granted, \$9,657).

#### **Mongraphs/Edited Volumes:**

- 2004: Sean Rafferty and Rob Mann (eds.), *Smoking and Culture: Recent Developments in the Archaeology of Tobacco Pipes in Eastern North America*. University of Tennessee Press. (Submitted for peer review by two anonymous reviewers prior to publication).
- In prep.: *Prehistoric Intoxicants of the Americas*. Edited volume based on the proceedings of a symposium at the 73<sup>rd</sup> annual meetings of the Society for American Archaeology. Solicited by the editor-in-chief of the University Press of Florida. Expected submission: December 2009
- In prep.: *Smoking Pipes of Eastern North America: A Social History*. Monograph manuscript for submission to University of Tennessee Press. Requested by University of Tennessee Press's editorial staff; prospectus accepted; Expected submission: Fall 2009

#### **Articles/Chapters in Refereed Journals/Volumes**

- 2006: Sean M. Rafferty. Evidence of Early Tobacco in Northeastern North America? *Journal of Archaeological Science* 33(4):453-458. Featured in *Science* 11(5764), April 2006)
- 2004: Sean M. Rafferty and Rob Mann. Smoking and Culture. In *Smoking and Culture: Recent Developments in the Archaeology of Tobacco Pipes in Eastern North America*, edited by Sean M. Rafferty and Rob Mann, pp. xi-xx. University of Tennessee Press.
- 2004: Sean M. Rafferty. They Pass Their Lives in Smoke, and at Death, Fall into the Fire: Smoking Pipes and Mortuary Ritual during the Early Woodland Period. In *Smoking and Culture: Recent Developments in the Archaeology of Tobacco Pipes in Eastern North America*, edited by Sean M. Rafferty and Rob Mann, pp. 1-42. University of Tennessee Press.
- 2002: Sean M. Rafferty. Identification of Nicotine by Gas Chromatography/Mass Spectroscopy Analysis of Smoking Pipe Residue. *Journal of Archaeological Science* 29:897-907.
- 2000: Sean M. Rafferty. A Farmhouse View: the Porter Site. In *Nineteenth- and Early Twentieth-Century Domestic Site Archaeology in New York State*, edited by John P. Hart and Charles Fisher, pp. 125-149. New York State Museum Bulletin 495.
- Under rev.: Sean M. Rafferty. Local Variation in Ohio Valley Adena. Under review by *Midcontinental Journal of Archaeology*. 49 page manuscript.
- In prep. Sean M. Rafferty, Christina Rieth, Jaime Moore Donta, Steven Moragne, and Kristy Primeau. Prehistoric Occupations at the Pethick Site, Schoharie County, New York. Under review by *Archaeology of Eastern North America*. 75 page manuscript. Returned with comments by journal for revisions.
- In prep.: Sean M. Rafferty. The Archaeology of Ritual Practice: An Example from Eastern North America.

*Journal of Social Archaeology.*

In prep.: Sean Rafferty, Igor Lednev, Kelly Virkler, Zuzana Chovanec. Use of Raman spectroscopy to identify prehistoric residues. *Journal of Archaeological Science*.

**Other Articles/Chapters**

- 2009: Sean M. Rafferty. Evidence of Ritual Practices at the Pethick Site, Schoharie County, New York. *Bulletin of the New York State Archaeological Association* no. 124:47-55.
- 2008: Sean M. Rafferty. Smoking Pipes and Early Woodland Mortuary Ritual. In *Transitions: Archaic and Early Woodland Research in the Ohio Country*. Edited by Martha P. Otto and Brian G. Redmond, pp. 271-283. Ohio University Press.
- 2007: Sean M. Rafferty, Candis Wood, and Christina Rieth. A Trace Element Analysis of New York State Cherts. *North American Archaeologist* 28(2):167-186.
- 2007: Christina Rieth, Sean Rafferty, and Derek Zaputo. A Trace Element Analysis of Ceramics from the Pethick Site, Schoharie County, New York. *North American Archaeologist* 28(1):59-80.
- 2007: Sean M. Rafferty. The Archaeology of Alkaloids. In *Theory and Practice of Archaeological Residue Analysis*, edited by Hans Barnard and J. W. Eerkens. British Archaeological Reports International Series 1650:179-188.
- 2005: Sean M. Rafferty. Tobacco and Hallucinogens. In *Tobacco: Scribner's Turning Points in History*, edited by Jordan Goodman, Marcia Norton and Mark Parascandola, pp. 66-71. Charles Scribner's Sons.
- 2005: Sean M. Rafferty. Tobacco and Archaeology. In *Tobacco: Scribner's Turning Points in History*, edited by Jordan Goodman, Marcia Norton and Mark Parascandola, pp. 259-260. Charles Scribner's Sons.
- 2005: Sean M. Rafferty. The Many Messages of Death: Mortuary Practices in the Ohio Valley and Northeast. In *Woodland Taxonomy and Systematics in the Middle Ohio Valley*, edited by Darlene Applegate and Robert Mainfort, pp. 150-167. University of Alabama Press.
- In prep.: Tobacco use by prehistoric Native Americans. In: *The archaeology of Intoxicants*, edited by Sean M. Rafferty. University Press of Florida. Volume Due Dec. 1, 2009.

**Research Symposia Organized:**

- 2008: The Archaeology of Intoxication. Research symposium held at the 2008 annual meetings of the Society for American Archaeology, March 28<sup>th</sup>, 2008, Vancouver, BC, Canada.
- 2007: Excavations at the Pethick Site, a Multi-component Site in Schoharie County, New York (Christina Rieth, co-organizer). Symposium for the 2007 Annual Meetings of the Eastern States Archaeological Federation, Burlington, Vermont.
- 2001: The Sot-Weed Factor: Recent Developments in the Archaeology of Smoking and Tobacco Pipes. Symposium for the 2001 Annual Meetings of the Society for American Archaeology, New Orleans, Louisiana. (Rob Mann, co-organizer).

**Research Presentations:**

- 2009: Christian Rieth and Sean M. Rafferty. Social Relations at the Pethick Site, New York State. Presented at the 74<sup>th</sup> annual meeting of the society for American Archaeology, Atlanta, Georgia, April 22 - 26, 2009.

- 2008: Sean M. Rafferty. Prehistoric Intoxicants in Eastern North America. Presented at the 73<sup>rd</sup> annual meeting of the Society for American Archaeology, Vancouver, British Columbia, March 28<sup>th</sup>, 2008.
- Christina Rieth, Sean Rafferty, Steven Moragne, Jared Latimer and Renee Morgan—Experimental Archaeology and Pottery Manufacture: A Case Study from the Schoharie Valley, New York. Presented at the 73<sup>rd</sup> annual meeting of the Society for American Archaeology, Vancouver, British Columbia, March 27<sup>th</sup>, 2008.
- 2007: The Pethick Site Excavations (Steve Moragne, Sean Rafferty and Chris Rieth). Presented at the 2007 Annual Meetings of the Eastern States Archaeological Federation, Burlington, Vermont, November 10<sup>th</sup>, 2007.
- Lithic Analysis of the Pethick Site (Chris Sobik and Sean Rafferty). Presented at the 2007 Annual Meetings of the Eastern States Archaeological Federation, Burlington, Vermont, November 10<sup>th</sup>, 2007.
- XRF Analysis of Lithic and Ceramic Artifacts from the Pethick Site (Candis Wood, Christina Rieth and Sean Rafferty). Presented at the 2007 Annual Meetings of the Eastern States Archaeological Federation, Burlington, Vermont, November 10<sup>th</sup>, 2007.
- Evidence of Ritual Practices at the Pethick Site. Presented at the 2007 Annual Meetings of the Eastern States Archaeological Federation, Burlington, Vermont, November 10<sup>th</sup>, 2007.
- The Potential for Archaeometric Analysis in Anatolian Contexts. Presented at the Society for American Archaeology Annual Meeting, April 27, 2007.
- 2005: The Archaeology of Alkaloids. Presented at the Society for American Archaeology Annual Meetings, March 31, 2005.
- 2004: No Adena, and Yet, Many Adena(s): *Regional Patterns in Adena Mortuary Practices*. Presented at the Southeast Archaeological Conference annual meetings, October 21, 2004.
- 2004: The Archaeology of Tobacco. Invited lecture at the University of Buffalo, April 2004.
- 2003: The Many Messages of Death: Mortuary Practices in the Ohio Valley and Northeast. Presented at the Society for American Archaeology Annual Meetings, April, 2003.
- 2001: They Pass Their Lives in Smoke, and at Death, Fall into the Fire: Smoking Pipes and Mortuary Ritual during the Early Woodland Period. Presented at the Society of American Archaeology Annual Meetings, April 2001.

**Academic/Professional Service:**

2009-pres.: Member Department of Anthropology Web Committee

2008-pres.: Member, University at Albany Faculty Senate Council on Libraries, Information Systems, & Computing (LISC)

2008-2009.: Member, Anthropology Department Graduate Affairs Committee

2008-pres.: Grant Reviewer, National Science Foundation

2008: Grant Reviewer, Israeli Science Foundation  
 Grants Reviewed: Early Iron Age Phoenician 'Commercial' Containers: A Case Study for Problem-oriented Residue Analysis. Ayelet Gilboa, Haifa University, and Neumann Ronny, Weizmann Institute of Science

2007-pres: Co-director, Anthropology Public Outreach Program; program to expose High School students to anthropology through in-class lectures, technology demonstrations and field trips.

2007-2008: Member, Department of Anthropology's Awards Committee

2007-2008: Member, Department of Anthropology's Technology Committee

2006: Organized 2006 annual meetings of the Northeast Anthropological Association (NEAA) in Albany, New York.

2005-pres.: Member, City of Albany Historic Resources Commission

2005-pres.: University at Albany, College of Arts and Sciences, Faculty Support Committee

2005-2006.: Member, University at Albany Provost's Task Force on Academic Integrity

2005-pres.: Reviewer, Pearson Prentice Hall  
Books Reviewed: *World Prehistory: A Brief Introduction*, 6<sup>th</sup> ed., by Brian M. Fagan.

2004-pres.: Reviewer, McGraw Hill Higher Education  
Books reviewed: *The Past in Perspective: An Introduction to Human Prehistory*, by Kenneth L. Feder.; *Principles of Archaeology*, by T. Douglas Price.

2004-pres.: Reviewer, *Journal of Archaeological Science*

2003-2006: University at Albany, Anthropology Department Graduate Affairs Committee

2003-2005: University at Albany, College of Arts and Sciences Faculty Council, Anthropology Dept. Counselor, Council Recorder

2003-2005: University at Albany, College of Arts and Sciences Faculty Council Executive Committee, Committee Recorder

**Professional Interests:**

Archaeology and Ethnohistory of the Eastern Woodlands  
Archaeometry  
Early Woodland & Adena Period Archeology  
Prehistoric use of medicinal and psychoactive plants  
Public Outreach in Archaeology  
Shamanism and Religion in Small-Scale Societies

**Research Skills:**

Lithic Analysis  
Residue Analysis (Gas Chromatography/Mass Spectrometry; Raman microscopy)  
Source Area Analysis (X-ray Fluorescence; Proton Induced X-ray Emission)  
Certified operator of UAlbany's Dynamatron Accelerator (for PIXE & RBS trace element analysis)

**Professional Memberships:**

Eastern States Archaeological Federation (ESAF)  
New York Archaeological Council (NYAC)  
Society for American Archaeology (SAA)  
Southeast Archaeological Conference (SEAC)

**References:**

Charles Cobb (University of South Carolina)  
Michael Nassaney (Western Michigan University)  
Christina Rieth (New York State Museum)  
Kenneth Sassaman (University of Florida)  
Nina Versaggi (Binghamton University)

**Ph.D. Dissertation Committees:**

Carioto, Jeanette (chair)  
Chovanec, Zuzana (member)  
Clark, Andrew (chair)  
Donta, Jaime Moore (chair)  
Moragne, Steven (chair)  
Nadeau, Jacqueline (chair)  
Newman, Jennifer (co-chair)  
Primeau, Kristy (chair)  
Boggs, Daniel (member)  
Ek, Jerry (member)  
Griggs, Mathew (member)  
Hutchins, Robert (member)  
Latimer, Jared (member)  
Lowry, Justin (member)  
Paling, Jason (member)  
Taylor, Mathew (member, graduated)

**MA Thesis Committees:**

Bagrow, Daniel (chair)  
Cardinal, Scott (chair)  
Miller, Tracy Schaffer (chair)  
Sobik, Christopher (chair)  
Weigle, Nicole (chair)  
Wood, Candis (chair)  
Anderson, Lisa (member)  
Brown, Heather (chair, graduated)  
Chovanec, Zuzana (member)  
Carioto, Jeanette (chair, graduated)  
Edwards, Adrienne (chair, graduated)  
Koziol, Katherine (chair, graduated)  
Moore, Jaime (chair, graduated)  
Moragne, Steven (chair, graduated)  
Morgan, Renee (chair, graduated)  
Primeau, Kristy (chair, graduated)  
Rataul, Ralph (chair, graduated)  
Cornelius, Mackenzie (member, graduated)  
Lawrence, Dawn (member, graduated)  
Newell, Vanessa (member, graduated)  
Paris, Elizabeth (member, graduated)