

## Sean M. Rafferty

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Albany, NY 12222**

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### **Education:**

- 2001: Ph.D., Anthropology, Binghamton University  
1994: M.A., Anthropology, S.U.N.Y Binghamton  
1990: B.A., Anthropology, Hartwick College, Oneonta New York

### **Professional History:**

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

### **Course List (as of Spring 2008):**

- Ant 104, Introduction to Archaeology (5 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 (5 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 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 (5 semesters)

### **Research Grants:**

- 2008: Residue Analysis of Alkaloids. National Science Foundation. Drs. Stuart Swiny and Igor Lednev, co-Principal Investigators. (\$122,000, granted for June 1, 2008-June 1, 2010).
- 2007: Residue Analysis of Non-Subsistence Plants. National Science Foundation. Drs. Stuart Swiny and Igor Lednev, co-Principal Investigators. (\$105,000, submitted Aug. 2007, declined Dec. 2007, invited to resubmit by Jan., 2008).
- 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)
- 2007: College of Arts and Sciences (CAS), University at Albany; Grant to conduct Raman microscopy analysis of Cypriot pottery for presence of Opium Residues. (declined, \$7,000)
- 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: Residue Analysis of Non-Subsistence Plants. National Science Foundation. Submitted Dec. 1, 2005 (\$105,000; declined; resubmission planned for May 2007). Revised version of 2002 NSF application. Dr. Stuart Swiny, co-Principle Investigator.
- 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, \$2150)
- 2003: American Society for Mass Spectrometry grant to fund residue analysis of Native American pottery vessels and smoking pipes (declined; \$25,000)
- 2003: American Philosophical Society Franklin Research Grant to fund residue analysis of Native American pottery vessels and smoking pipes (declined; \$2,000)
- 2002: National Science Foundation Archaeometry Program grant to fund establishment of archaeometric Laboratory (\$150,000). Original application not funded but revision and resubmission was encouraged by NSF grant officer.
- 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: Summer 2008
- 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: Spring 2009

#### **Articles/Book Chapters**

- Under rev.: Sean M. Rafferty. Local Variation in Ohio Valley Adena. *American Antiquity*. Manuscript length: 79 pages. Submitted January 2008 for second review.
- 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.
- 2007: 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. 11.1-11.19. Ohio University Press.
- 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)
- 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.
- 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.
- In prep.: Sean M. Rafferty. The Archaeology of Ritual Practices. Article under preparation to *Archaeological Method and Theory*. Expected submission, Spring 2008.
- In prep.: Sean M. Rafferty, Christina Rieth, Jaime Moore Donta, Steven Moragne, Kristy Primeau and Candis Wood. Prehistoric Occupations at the Pethick Site, Schoharie County, New York. Article under preparation for *Archaeology of Eastern North America*. Expected submission, Spring 2008.
- In prep.: Sean M. Rafferty and Mark Platt. Identification of Opium Alkaloids in a 19<sup>th</sup> Century Smoking Pipe from Deadwood, South Dakota. Article under preparation for *Journal of Archaeological Science*. Expected submission, Summer 2008.

#### **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:**

- 2008: 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.
- 2000: Creating Stewards of the Past: Binghamton University's Community Archaeology Program (with Nina Versaggi, Tim Knapp, Laurie Miroff, and Mary Price). Presented at the Society of American Archaeology Annual Meetings, April, 2000.

- 1999: Regional Patterns in Early Woodland and Adena Smoking Pipes. Presented at the Society for American Archaeology Annual Meetings, March 1999.
- 1998: Residue Analysis of Early Woodland Tobacco Pipes. Presented at the Society for American Archaeology Annual Meetings, SAA Student Affairs Committee Sponsored Symposium on Interdisciplinary Approaches in Archaeology. March 1998. (Paper featured in *Science News*)
- 1997: A Regional Approach to Tubular Smoking Pipes. Presented at the Early Woodland and Adena Archaeology of the Ohio Area Conference, May 1997.
- Smoke Gets in Your Eyes: The Ethnohistory of Tobacco. Presented at the Society for American Archaeology Annual Meetings, April 1997.
- 1995: Tubular Pipes as Evidence of Regional Belief System. Presented at the Southeastern Archaeological Conference annual meeting, November, 1995.
- 1994: A Regional Perspective on the Cultural Function of Late Prehistoric Smoking Implements. Presented at the Southeastern Archaeological Conference annual meeting, November 1994.
- 1993: The Organization of Production at Mill Creek, Southern Illinois. Presented at the Southeastern Archaeological Conference annual meeting, November 1993, Raleigh, North Carolina.

**Academic/Professional Service:**

- 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. Sharon N. DeWitte, University at Albany, co-director
- 2007-pres: 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

1999-2002: Co-Director, Community Archaeology Program (CAP), Binghamton University.

1997: Director, Kids on Campus "Dig into Archaeology" Program, Binghamton University

**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 (Binghamton University)  
Michael Nassaney (Western Michigan University)  
Christina Rieth (New York State Museum)  
Nina Versaggi (Public Archaeology Facility, Binghamton, New York)

**Ph.D. Dissertation Committees:**

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

**MA Thesis Committees:**

Bagrow, Daniel (chair)  
Brown, Heather (chair)

Cardinal, Scott (chair)  
Carioto, Jeanette (graduated)  
Chenovec, Zuzana  
Cornelius, Mackenzie (graduated)  
Edwards, Adrienne (chair, graduated)  
Koziol, Katherine (chair, graduated)  
Lawrence, Dawn (graduated)  
Miller, Tracy Schaffer (chair)  
Moore, Jaime (chair, graduated)  
Moragne, Steven (chair, graduated)  
Morgan, Renee (chair)  
Newell, Vanessa (graduated)  
Paris, Elizabeth (graduated)  
Primeau, Kristy (chair, graduated)  
Rataul, Ralph (chair, graduated)  
Robinson, Francis  
Sobik, Christopher (chair)  
Weigle, Nicole (chair)  
Wood, Candis (chair)