



**63<sup>rd</sup> Annual  
Midwest Archaeological Conference**

**October 10-12<sup>th</sup>, 2019  
Mankato, Minnesota**

**MAC**

2019 Mankato

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## **Conference Organizer**

Ronald C. Schirmer

## **Student Paper Competition Judges**

Edward P. Fleming (Chair)  
Madeline McLeester  
George R. Holley

## **Organizer's acknowledgments**

The organizer wishes to gratefully acknowledge the efficient and patient help of John Doershuk, Eve Hargrave, Angela Collins, Brian Nicholls, Mark Schurr, and Andy Brown. Jenna Burds designed the logo. I also thank the staffs of the Mankato Civic Center, the Hilton Garden Inn, and the City Center Hotel for their rapid responses and flexibility in accommodating the planning.

Time to organize this conference was granted as part of a sabbatical leave supported by the Department of Anthropology and the College of Social and Behavioral Sciences at Minnesota State University, Mankato.

Cover Image: extract of final predictive model, MnModel Phase IV, used by permission of the Minnesota Department of Transportation. See <http://www.dot.state.mn.us/mnmodel/> for further information.

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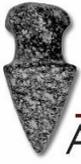


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## Illinois



### Archaeological Survey



The Illinois Archaeological Survey proudly supports the Midwest Archaeological Conference. We are a society of professional archaeologists, and other technical professionals, dedicated to identifying and preserving important archaeological resources throughout the state of Illinois. We are also a partner organization supporting the Coalition for American Heritage.

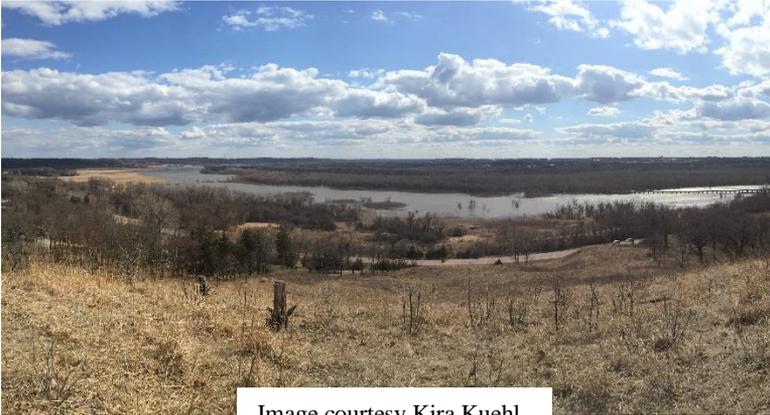


Image courtesy Kira Kuehl

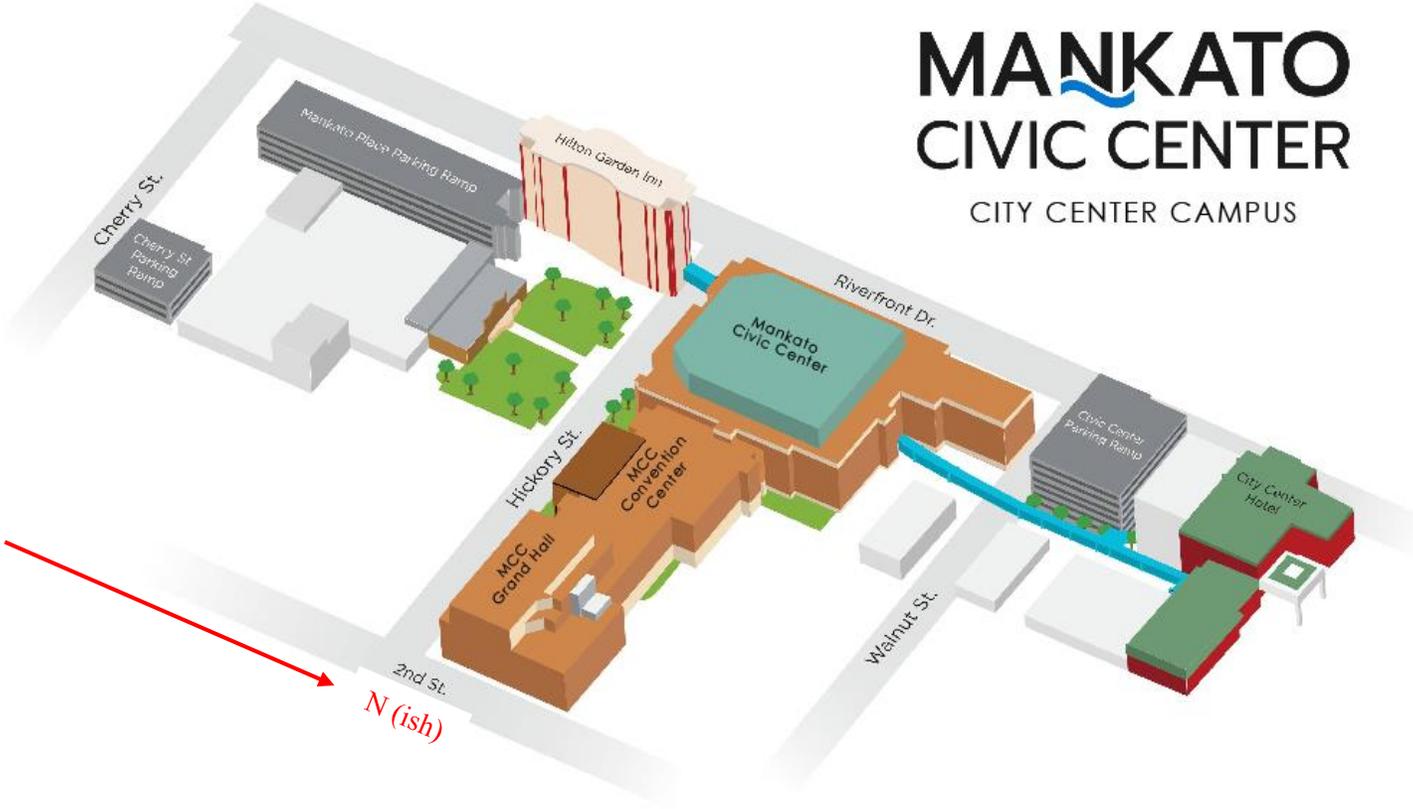
**Welcome** to the beautiful Minnesota River Valley and the city of Mankato! We are here in the homelands of many Native groups, including the Ioway and Dakota peoples. The name of the city is an anglicization of the Dakota place-name, “Mahkato”, meaning “Blue Earth”, and refers to numerous deposits of blue-green clays from Ordovician and Pleistocene times found along the Minnesota and Blue Earth Rivers, as well as in isolated locations as far away as Red Wing, on the Cannon River. The blue clay is sacred to Dakota people.

The peace of this place was disturbed by the largest mass-execution in US History, when 38 Dakota were hung from a single scaffold mere steps from the Civic Center in 1862, as one of the outcomes of the US/Dakota war. Part of the site of the hangings is now Reconciliation Park, across the street from the conference site, and the reconciliation movement has had a home here for more than 30 years.

Today, Mankato is a rapidly-growing community, and is frequently voted among the most livable cities in the Midwest. In the downtown area around the Civic Center you will find many lively restaurants and bars. Please go and enjoy them!

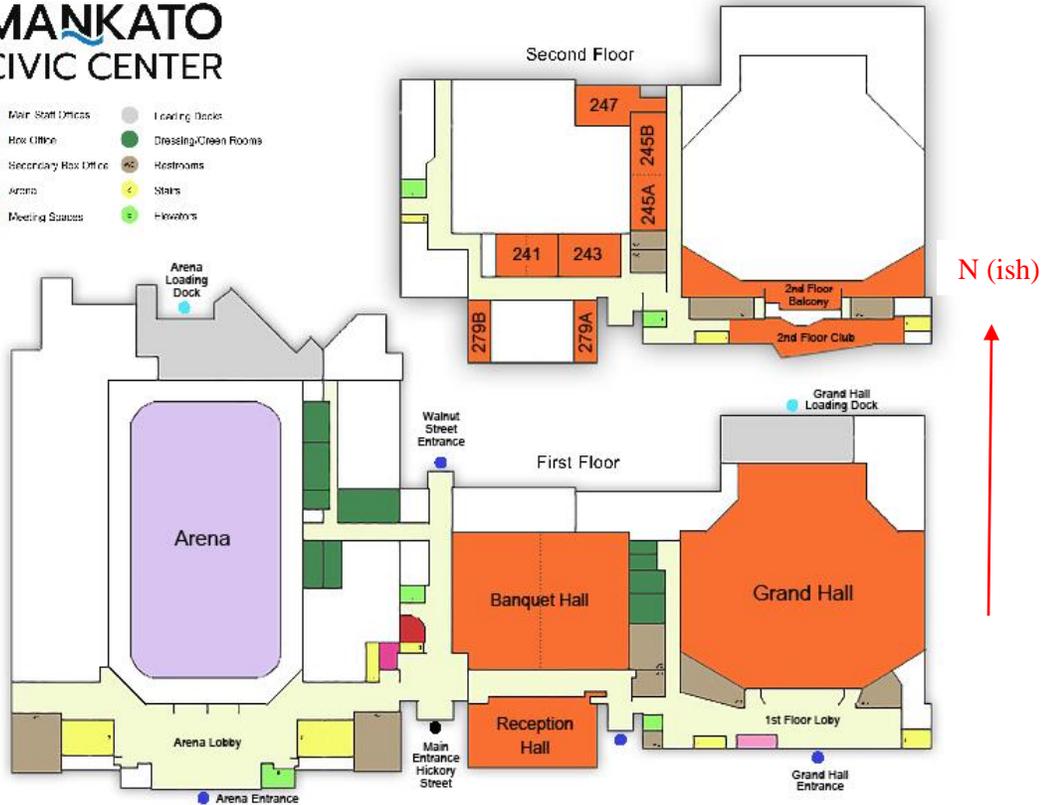
# MANKATO CIVIC CENTER

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- Secondary Box Office
- Arena
- Meeting Spaces
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- Dressing/Clean Rooms
- Restrooms
- Stairs
- Elevators



## **List of Events**

### **Registration**

Registration and conference help will be available from 8:00 a.m. to 4:00 p.m. Thursday, Friday, and Saturday at the Registration Desk in the 2<sup>nd</sup> floor lobby of the Civic Center.

### **Excursions**

Bus Trip to Pipestone National Monument and Jeffers Petroglyphs State Park

Thursday, October 10

Assemble by 8:00 a.m. at the Mankato Civic Center Main Entrance on Hickory Street

### **Meetings**

MAC Inc., Board of Directors Lunch Meeting

Friday, October 11

11:30 – 1:00 p.m. Mankato Hilton Garden Inn Meeting Room 301

Council for Minnesota Archaeology Meeting

Saturday, October 12

3:00 – 4:00 p.m. Mankato Civic Center Room 245B

MAC Inc., Business Meeting and Awards Ceremony

Saturday, October 12

3:30 – 4:30 p.m. Mankato Civic Center Room 243

### **Receptions**

Early-Bird reception, Wednesday, October 9

4:00 – 7:00 p.m. LocAle, 228 Poplar St., Mankato, MN

2 free beers to each registered attendant, food truck on hand

Evening reception, Thursday, October 10

5:00 – 7:00 p.m. Mankato Civic Center Reception Hall

Substantial Appetizers and Cash Bar

Evening reception, Friday, October 11

5:00 – 7:00 p.m. Mankato Civic Center Reception Hall

Substantial Appetizers and Cash Bar

Evening reception, Saturday, October 12

5:00 – 9:00 p.m. Mankato Civic Center Grand Hall Club

Substantial Appetizers and Cash Bar

# Brief Schedule

## Wednesday, October 9<sup>th</sup>

4:00 – 7:00 p.m.

### Early Bird Reception

LocAle, 228 Poplar St., Mankato, MN

## Thursday, October 10<sup>th</sup>

8:00 a.m. – 5:00 p.m.

### Tour

Pipestone National Monument and Jeffers  
Petroglyphs State Park

5:00 – 7:00 p.m.

### Evening Reception

Reception Hall, Civic Center

## Friday, October 11<sup>th</sup>

9:00 - 11:30 a.m.

### Symposium

A Legacy in Place: Minnesota's  
Statewide Survey of Historical  
and Archaeological Sites

**Room 241**

9:00 - 11:30 a.m.

### Sponsored Symposium

Ceremonial Situations in the  
North American Midcontinent:  
Perspectives from the Middle  
Woodland Era

**Room 243**

9:00 - 10:00 a.m.

### General Session

New Data from Old Collections

**Room 245a**

9:30 - 11:30 a.m.

### General Poster Session

Settlement/Landscape and  
Artifact Studies

**Room 279a**

9:30 - 11:30 a.m.

### General Poster Session

Technology in Archaeology 1

**Room 279b**

10:15 - 11:45 a.m.

### General Session

Toward an Engaged  
Archaeology

**Room 245a**

12:00 - 1:00 p.m.

### Student Workshop

Geophysical Methods

**Room 245b**

|                               |  |                          |
|-------------------------------|--|--------------------------|
| <b>12:00 – 1:30 p.m.</b>      | <b>Lunch Break</b>   |                          |
| <b>1:30 - 3:00 p.m.</b>       | <b>Symposium</b><br>The Dixon Oneota Site, 13WD8,<br>Data from the Third Round of<br>Excavations                         | <b>Room 241</b>          |
| <b>1:30 - 4:15 p.m.</b>       | <b>Symposium</b><br>Thinking Globally, Digging<br>Locally: Guy Gibbon’s<br>Contributions to Archaeology                  | <b>Room 243</b>          |
| <b>1:30 - 2:30 p.m.</b>       | <b>General Session</b><br>Studies in Historical<br>Archaeology   | <b>Room 245a</b>         |
| <b>1:30 - 3:30 p.m.</b>       | <b>Workshop</b><br>Developing an Effective Anti-<br>harassment MAC Culture   | <b>Room 245b</b>         |
| <b>1:30 - 3:30 p.m.</b>       | <b>Poster Symposium</b><br><br>Living Landscapes: Growing<br>Communities and Crops in the<br>Lower Illinois River Valley | <b>Rooms<br/>279a, b</b> |
| <b>3:15 - 4:30 p.m.</b>       | <b>General Session</b><br>Oneota, Plains Village, and<br>Middle Mississippian Studies                                    | <b>Room 241</b>          |
| <b>5:00 - 7:00 p.m.</b>       | <b>Evening Reception</b><br>Reception Hall, Civic Center   |                          |
|                               | <b>Saturday, October 12<sup>th</sup></b>   |                          |
| <b>9:00 - 11:30 a.m.</b>      | <b>Symposium</b><br>Native American Perspectives<br>on Archeological Practice in the<br>Midwest                          | <b>Room 241</b>          |
| <b>9:00 a.m. - 12:00 p.m.</b> | <b>General Session</b><br>Applications of Advanced<br>Technology in Archaeology  | <b>Room 243</b>          |
| <b>9:00 - 10:30 a.m.</b>      | <b>General Session</b><br>People, Settlements, and<br>Landscapes   | <b>Room 245a</b>         |

|                           |  |                  |
|---------------------------|--|------------------|
| <b>9:00 - 10:00 a.m.</b>  | <b>General Session</b><br>Studies of Death and Burial                                  | <b>Room 245b</b> |
| <b>9:30 - 11:30 a.m.</b>  | <b>General Poster Session</b><br>Technology in Archaeology 2                           | <b>Room 279a</b> |
| <b>9:30 - 11:30 a.m.</b>  | <b>General Poster Session</b><br>Archaeological Practice and<br>Bioarchaeology         | <b>Room 279b</b> |
| <b>10:15 - 11:45 a.m.</b> | <b>Symposium</b><br>Ritual as Function and Process<br>in Midcontinental Pit Features   | <b>Room 245b</b> |
| <b>10:45 - 11:45 a.m.</b> | <b>Symposium</b><br>Archaeology of Minnesota's Red<br>Rock Ridge                       | <b>Room 245a</b> |
| <b>12:00 - 1:30 p.m.</b>  | <b>Lunch Break</b>   |                  |
| <b>1:30 - 3:15 p.m.</b>   | <b>General Session</b><br>Studies in Tool Use,<br>Manufacturing, and Type              | <b>Room 241</b>  |
| <b>1:30 - 3:00 p.m.</b>   | <b>General Session</b><br>Plants, Animals, and People                                  | <b>Room 243</b>  |
| <b>1:30 - 3:00 p.m.</b>   | <b>Workshop</b><br>Radiocarbon Dating in the<br>Midwest: Review and<br>Recommendations | <b>Room 245a</b> |
| <b>1:30 - 3:30 p.m.</b>   | <b>General Poster Session</b><br>Historical Archaeology                                | <b>Room 279a</b> |
| <b>3:00 - 4:00 p.m.</b>   | <b>Meeting</b><br>Council for Minnesota<br>Archaeology Meeting                         | <b>Room 245b</b> |
| <b>3:30 - 4:30 p.m.</b>   | <b>Meeting</b><br>MAC, Inc., Business Meeting<br>and Awards Ceremony                   | <b>Room 243</b>  |
| <b>5:00 - 9:00 p.m.</b>   | <b>Evening Reception</b><br>Grand Hall, Civic Center                                   |                  |

# Detailed Schedule

Thursday, October 10<sup>th</sup>

**5:00 – 7:00 p.m. Thursday Evening Reception**  
Reception Hall, Mankato Civic Center

Friday, October 11<sup>th</sup>

**9:00 a.m. – 12:00 p.m. Friday: MAC Sponsored Symposium**

*Ceremonial Situations in the North American Midcontinent:  
Perspectives from the Middle Woodland Era*

Chairs: Edward R. Henry and G. Logan Miller  
Room 243

**9:00 a.m. Assembling People, Earth, and Things: Understanding Middle Woodland Ceremonial Situations in the Midcontinent**

Edward R. Henry (Department of Anthropology and Geography, Colorado State University), G. Logan Miller (Department of Sociology and Anthropology, Illinois State University)

**9:15 a.m. Documenting Ceremonial Situations and Institutional Change at Middle Woodland Geometric Enclosures in Central Kentucky**

Edward R. Henry (Department of Anthropology and Geography, Colorado State University), Andrew M. Mickelson (Department of Earth Sciences, University of Memphis), Michael Mickelson (Department of Physics and Astronomy, Denison University)

**9:30 a.m. The Scioto Situation and the Steel Group Monument Assemblage**

Timothy D. Everhart (University of Michigan)

**9:45 a.m. A Situational Perspective on Hopewell Mound 2**

Bretton T. Giles (Kansas State University), Brian M. Rowe (University of Memphis), Ryan M. Parish (University of Memphis)

**10:00 a.m. Break**

**10:15 a.m. Bladelets and Middle Woodland Situations in Southern Ohio**

G. Logan Miller (Illinois State University)

- 10:30 a.m.      The Hopewell Situation in the Lower Illinois Valley: Whose Situation Is It?**  
Jason L. King (Center for American Archeology), Jane E. Buikstra (Arizona State University)
- 10:45 a.m.      Middle Woodland Celebrations of Life and Death at the Mann Site, Indiana**  
Michael Strezewski (University of Southern Indiana), Staffan Peterson (National Park Service)
- 11:00 a.m.      Discussant**  
Sarah Baires (Eastern Connecticut State University)
- 11:15 a.m.      Discussant**  
Jim Brown (Retired)
- 11:30 a.m.      Open Discussion (extended time)**

**9:00 – 11:30 a.m. Friday: Symposium**

*A Legacy in Place: Minnesota's Statewide Survey of Historical and Archaeological Sites*

Organizer: Scott F. Anfinson

Room 241

- 9:00 a.m.      Minnesota's Statewide Archaeological Survey: the First Ten Years**  
Scott F. Anfinson (Minnesota State Archaeologist, Retired)
- 9:15 a.m.      A New and Improved Precontact Ceramic Handbook for Minnesota**  
George R. Holley (Minnesota State University Moorhead), Edward Fleming (Science Museum of Minnesota)
- 9:30 a.m.      Investigations of Early Aspect of Historic Fort Snelling**  
Michelle M. Terrell (Two Pines Resource Group)
- 9:45 a.m.      Archaeological Surveys of Dakota and Wadena Counties, Minnesota**  
Edward Fleming (Science Museum of Minnesota), Jasmine Koncur (Science Museum of Minnesota), Joshua Anderson (Science Museum of Minnesota)
- 10:00 a.m.      Break**
- 10:15 a.m.      Toby Morrow's Legacy: Stone Tools of Minnesota**  
Nurit Goldman Finn (Wapsi Valley Archaeology)

- 10:30 a.m. Archaeology and the Cultural Landscape in Pope County, Minnesota**  
David Maki (Archaeo-Physics), Kent Bakken, Sigrid Arnott (Sigrid Arnott Consulting)
- 10:45 a.m. Minnesota's Statewide Survey: the Next 15 Years**  
Patricia Emerson (Minnesota Historical Society), Bruce Koenen (Office of the Minnesota State Archaeologist), Scott Anfinson (Minnesota State Archaeologist, Retired)
- 11:00 a.m. Archaeological Investigations All Over the Place: Some Observations from Nearly a Decade of Minnesota Statewide Survey Initiatives**  
Adrien Hannus (Augustana University), Austin Bhuta (Augustana University)
- 11:15 a.m. Examining the Minnesota State Radiocarbon Database: Why this was Valuable**  
Linda Scott Cummings (PaleoResearch Institute), R. A. Varney (PaleoResearch Institute)

**9:00 – 10:00 a.m. Friday: General Session**

*New Data from Old Collections*

Chair: Melody Pope

Room 245a

- 9:00 a.m. Ceramic Analysis of Casas Grandes Vessels at the Milwaukee Public Museum**  
Samantha Bomkamp (University of Wisconsin-Milwaukee)
- 9:15 a.m. Disentangling the Late Pre-Contact Native History of Northern Illinois: Ongoing Research in the Legacy Collections of the Fisher Mound and Village Site, Will County, Illinois.**  
Thomas E. Emerson (Illinois State Archaeological Survey, University of Illinois), Kristin M. Hedman (Illinois State Archaeological Survey, University of Illinois), and Kjersti E. Emerson (Illinois State Archaeological Survey, University of Illinois)
- 9:30 a.m. Same Artifacts Same Conclusions? Using Legacy Collections to Better Understand Settlement Patterns in the Upper Midwest**  
Sara Pfannkuche (University of Wisconsin-Milwaukee, Midwest Heritage Resource Consultants)

**9:45 a.m. The Glenn A. Black Laboratory of Archaeology is  
Rehousing Angel Mounds!**

Melody Pope (IU Glenn A. Black Laboratory of Archaeology),  
April Sievert (IU Glenn A. Black Laboratory of Archaeology)

**9:30 – 11:30 a.m. Friday: General Poster Session**

*Settlement/Landscape and Artifact Studies*

Room 279a

- 1 “If it’s a Good Place to Camp…”**  
Sean Dunham (Chippewa National Forest)
- 2 Rehabilitating the 1974-1976 Silvernale Site Collection**  
Mara Taft (Science Museum of Minnesota), Edward Fleming  
(Science Museum of Minnesota)
- 3 Copper Awls and Archaeological Classification**  
Robert Ahlrichs (University of Wisconsin-Milwaukee)
- 4 Monks Mound Red in the Northern Hinterlands: Raw  
Materials and the Spread of Mississippian Slip Technology**  
Margaret Beck (University of Iowa), Jeffrey Ferguson  
(University of Missouri), Brandi MacDonald (University of  
Missouri)
- 5 A Story of Fires and People on Star Island in Cass Lake,  
MN**  
Kurt F. Kipfmüller (Department of Geography, Environment,  
& Society, University of Minnesota), Cait Bell (Department of  
Geography, Environment, & Society, University of Minnesota),  
Sean Dunham (Chippewa National Forest)
- 6 Sand Lake and the Context of Late Prehistoric Agriculture  
in the Upper Mississippi Valley**  
Robert F. Sasso (University of Wisconsin-Parkside)

**9:30 – 11:30 a.m. Friday: General Poster Session**

*Technology in Archaeology I*

Room 279b

- 1 From Lower Town to St. Cloud State: Geophysical Survey  
of an Evolving Urban Landscape 1869 -2019**  
Mike Penrod (St. Cloud State University), Jonathan Corbin (St.  
Cloud State University), Veronica Parsell (Cardno Inc.), Rob  
Mann (St. Cloud State University)

- 2 **Investigations into Aztalan’s Northeast Mound: the 2019 UWM Archaeological Field School at Aztalan**  
John D. Richards (University of Wisconsin-Milwaukee), Eric E. Burant (University of Wisconsin-Milwaukee), Megan E. Thornton (University of Wisconsin-Milwaukee)
- 3 **Making Sense of Ohio’s State Historic Preservation Office's Data with Maximum Entropy Modeling**  
Patrick Druggan (Pennsylvania State University)
- 4 **Subsurface Imaging of a Late Woodland Effigy Mound Site: Lake Koshkonong Effigy Mounds, Wisconsin**  
Matthew J. Mangin (University of Wisconsin-Eau Claire), Harry Jol (University of Wisconsin-Eau Claire), Samuel G. Schneider (University of Wisconsin-Eau Claire)

**10:15 – 11:45 a.m. Friday: General Session**

*Toward an Engaged Archaeology*

Chair: Heather Walder

Room 245a

- 10:15 a.m. Last Interviews with Myles Donnelly Goddard on the Shepard Site at Little Senachwine Creek**  
Mark L. Madsen (Member of C.A.S., S.S.A.S., and I.A.A.A.)
- 10:30 a.m. Creative Approaches for Site Avoidance in the Center Creek Archaeological District**  
Amber C. Javers (Burns & McDonnell Engineering Company)
- 10:45 a.m. Connecting People, Past and Present: Collaborative Archaeology in Red Cliff, WI (Part 1)**  
Heather Walder (University of Wisconsin-La Crosse), Marvin DeFoe (Red Cliff Tribal Historic Preservation Office), John L. Creese (North Dakota State University)
- 11:00 a.m. Connecting People, Past and Present: Collaborative Archaeology in Red Cliff, WI (Part 2)**  
John L. Creese (North Dakota State University), Marvin Defoe (Red Cliff Tribal Historic Preservation Office), Heather Walder (University of Wisconsin-LaCrosse)
- 11:15 a.m. A New Early Woodland Occupation Site at the Confluence of the Illinois and Mississippi Rivers**  
Andrew Martin (Principia College)

**11:30 a.m. Bears, Buffalos, Lady Falling from the Sky-Oh My!**  
George Horton (Iowa Archeological Society, Independent Scholar)

**12:00 – 1:00 p.m. Friday: Student Workshop**

*Geophysics: Tools to Aid in Noninvasive Archaeological Investigations*

Organizers: Luke Burds, Alexander Anton, Tamira K. Brennen, Trisha Walker

Room 245b, followed by practical work in nearby Washington Park

**12:00 p.m. Magnetic Susceptibility**

Rinita Dalan (Minnesota State University, Moorhead)

**12:15 p.m. Ground Penetrating Radar**

Harry M Jol (Department of Geography and Anthropology)

**12:30 p.m. Magnetometry**

Donald W. Johnson (Retired)

**12:45 p.m. Resistivity**

Donald W. Johnson (Retired)

**1:30 – 3:00 p.m. Friday: Symposium**

*The Dixon Oneota Site, 13WD8, Data from the Third Round of Excavations*

Chair: Mark L. Anderson

Room 241

**1:30 p.m. The Dixon Site (13WD8): an Introduction and Overview**

Mark L. Anderson (University of Iowa Office of the State Archaeologist)

**1:45 p.m. Dixon Site and Setting**

Bryan Kendall (University of Iowa Office of the State Archaeologist)

**2:00 p.m. Tobacco, Bulbs, and Other New Plant Finds from the Dixon Site (13WD8)**

Leslie L. Bush (Macrobotanical Analysis)

**2:15 p.m. Food, Feathers, and Animal Symbolism: Fauna from the Dixon Site (13WD8)**

Cherie Haury Artz (University of Iowa Office of the State Archaeologist)

**2:30 p.m. Mortuary Practice and the Oneota Tradition: a Case Study from the Dixon Site (13WD8)**

Lara K. Noldner (University of Iowa Office of the State Archaeologist)

**2:45 p.m. Project Consultation and Preservation at the Dixon Site (13WD8)**

Brennan J Dolan (Iowa DOT)

**3:00 p.m. An Overview of the Lithic Assemblage from the 2016-2017 Excavations at the Dixon Site, 13WD8**

Mark L. Anderson (University of Iowa Office of the State Archaeologist)

**1:30 – 4:15 p.m. Friday: Symposium**

*Thinking Globally, Digging Locally: Guy Gibbon's Contributions to Archaeology*

Chair: Scott F. Anfinson

Room 243

**1:30 p.m. The End of Prehistory: the Dakota at Lake Mille Lacs**

Scott F. Anfinson (University of Oslo)

**1:45 p.m. Bridging the Gulf: Guy Gibbon and the Conflicts of Archaeological Theory**

Michael Michlovic (Minnesota State University Moorhead)

**2:00 p.m. Guy Gibbon's Legacy at the University of Minnesota**

Katherine Hayes (University of Minnesota), Tom Trow (University of Minnesota, Retired)

**2:15 p.m. Zooarchaeology of a Bear Feast: the Crace Site (21ML3) in the Kathio National Historic Landmark District**

David Mather (Minnesota State Historic Preservation Office)

**2:30 p.m. Remembering and Revisiting Mallard: a Minnesota Lumber Town**

Michelle M. Terrell (Two Pines Resource Group)

**2:45 p.m. A Re-analysis of Correctionville Oneota Prehistory**

Dale R. Henning (Research Associate, Illinois State Museum)

**3:00 p.m. Break**

**3:15 p.m. The Oneota Fringe in the Northwest: Creolization, Hybridization, or Just Oneota?**

George R. Holley (Minnesota State University Moorhead)

**3:30 p.m. Expanding the View of the Sheffield Site on the St. Croix: Investigations by the Science Museum of Minnesota**

Edward Fleming (Science Museum of Minnesota)

- 3:45 p.m. Central Place Foraging and Exchange in the Western Division of the Initial Middle Missouri**  
Craig M. Johnson (PaleoCultural Research Group)
- 4:00 p.m. 45 Years Later: Gibbon's Red Wing Models and Their Place in Research Today**  
Ronald C. Schirmer (Minnesota State University, Mankato)

**1:30 – 2:30 p.m. Friday: General Session**

*Studies in Historical Archaeology*

Chair: Staffan Peterson

Room 245a

- 1:30 p.m. Lost and Found: Identifying Ephemeral Mining Sites at Isle Royale National Park by Reconstructing Government Land Office Survey Paths in GIS**  
Andrew Anklam (Michigan Technological University, Isle Royale National Park), Seth DePasqual (Isle Royale National Park)
- 1:45 p.m. Eighteenth Century Trade and Politics of the Potawatomi of the St. Joseph & Kankakee River Valleys**  
Jessica Yann (Michigan State University)
- 2:00 p.m. Preliminary Analysis of the Walker Slough Site, A Multi-Component Site in Northwest Illinois**  
Addison P. Kimmel (University of Iowa), Steven A. Katz (Atwell LLC)
- 2:15 p.m. Historical Archaeology of a Swedish Pioneer Homestead and the US-Lakota War of 1861**  
Staffan Peterson (National Park Service)

**1:30 – 3:30 p.m. Friday: Workshop**

*Developing an Effective Anti-harassment MAC Culture*

Organizer: John F. Doershuk

Room 245b

- 1:30 p.m. Introduction, Background, and Context**  
John F. Doershuk (University of Iowa Office of the State Archaeologist)
- 1:45 p.m. Extended Discussion**  
Panelists: Heather Walder (University of Wisconsin-LaCrosse), April K. Sievert (Indiana University), Brian D. Nicholls (University of Wisconsin-Milwaukee)

## **1:30 – 3:30 p.m. Friday: Poster Symposium**

*Living Landscapes: Growing Communities and Crops in the Lower Illinois River Valley*

Organizer: Jason L. King

Rooms 279a and 279b

- 1 Testing the Soil Preferences of Erect Knotweed (*Polygonum erectum*) in a Common Garden Experiment**  
Megan E. Belcher (University of Tennessee- Knoxville), Daniel R. Williams (Ohio State University), Natalie G. Mueller (Washington University in St. Louis)
- 2 Using Paleoethnobotanical Data to Put the Prairie Back into “The Prairie State”**  
Kirsten Nafziger (Vanderbilt University)
- 3 Reanalysis of Chipped-Stone Artifacts at the Kamp Mound Group (11C12)**  
Caleb Blair (Cornell College), Jason King (Center for American Archeology)
- 4 Using Elevation and the Floodplain to Analyze the Settlement and Abandonment of Sites in the Lower Illinois River Valley**  
Danielle Duguid (University at Albany, SUNY)
- 5 Using Magnetometry to Identify Late Woodland Pit and House Features**  
Claire L. Hankla (Smith College), Jacob Lulewicz (Washington University in St. Louis), Jason L. King (Center for American Archeology)
- 6 Cooking in a Lost Kitchen**  
Zoe Blair (Wichita State University), Natalie G. Mueller (Washington University in St. Louis)
- 7 Putting Mound House on the Map : Comparing Magnetometry and Excavation**  
Patricia A. Mathu (University of Texas at Dallas), Jason L. King (Center for American Archeology)
- 8 Paleoethnobotanical Primary Analysis of German Site**  
Chloe K. Butcher (Allegheny College), David Ruiz Menjivar (University of Florida), Megan Belcher (University of Tennessee Knoxville), Natalie G. Mueller (Washington University)

## 9 Anthropological STEM Research Experiences at the Center for American Archeology

Jason L. King (Center for American Archeology), Jane E. Buikstra (Arizona State University), Natalie G. Mueller (Washington University in St. Louis), Jacob Lulewicz (Washington University in St. Louis), Andrew Flachs (Purdue University), and Daniel Williams (Ohio State University)

### 3:15 – 4:30 p.m. Friday: General Session

*Oneota, Plains Village, and Middle Mississippian Studies*

Chair: Seth A. Schneider

Room 241

- 3:15 p.m. Caddo or Cahokian? Stylistic and Compositional Analysis of a Fine-Engraved Vessel from Northwest Iowa**  
William Green (University of Iowa and Beloit College), George R. Holley (Minnesota State University Moorhead), James B. Stoltman (University of Wisconsin-Madison), Joseph A. Tiffany (University of Iowa), and Cynthia Strong (Cornell College)
- 3:30 p.m. Chronology for Mississippian and Oneota Occupations at Aztalan and the Lake Koshkonong Locality**  
Anthony Krus (University of South Dakota), John Richards (University of Wisconsin-Milwaukee), Robert Jeske (University of Wisconsin-Milwaukee)
- 3:45 p.m. Recent Work at Southern Minnesota's Blue Earth Locality**  
Douglas Kullen (Burns & McDonnell Engineering Company)
- 4:00 p.m. Known, but Not Known: the Oneota Component at the Crab Apple Point site on Lake Koshkonong**  
Seth A. Schneider (University of Wisconsin-Milwaukee), Philip G. Millhouse (Red Gates Archaeology)
- 4:15 p.m. The Cambria Focus – Again**  
Michael Scullin (Midwest Ethnohorticulture)

### 5:00 – 7:00 p.m. Friday Evening Reception

Reception Hall, Mankato Civic Center

## Saturday, October 12<sup>th</sup>

### 9:00 – 11:30 a.m. Saturday: Symposium

*Native American Perspectives on Archeological Practice in the Midwest*

Chair: Ronald C. Schirmer

Room 241

**9:00 a.m. Above and Beyond: Collaboration between the Office of the State Archaeologist and Minnesota Indian Affairs Council**

Amanda Gronhoyd (Minnesota Office of the State Archaeologist), Melissa Cerda (Minnesota Indian Affairs Council)

**9:15 a.m. Know Ye that the Foxes are Immortal - Pemoussa, Siege at Detroit, 1712**

Johnathan L. Buffalo (Meskwaki Nation, Historic Preservation Director), D. Suzanne Buffalo (Meskwaki Nation, and Iowa OSA Indian Advisory Council member)

**9:30 a.m. The Ioway Indians in Minnesota**

Lance M. Foster (Iowa Tribe of Kansas and Nebraska)

**9:45 a.m. Unsettling Archaeology and Integration of Indigenous Heritage**

Kevin Brownlee (Manitoba Museum)

**10:00 a.m. A Dakota THPO's Perspective on Archaeology**

Samantha Odegard (Upper Sioux THPO)

**10:15 a.m. Break**

**10:30 a.m. Effigy Mounds National Monument's Disgrace**

Albert M. LeBeau III (Cultural Resource Program Manager, National Park Service, Effigy Mounds National Monument)

**10:45 a.m. A Perspective from Red Cliff**

Marvin Defoe (Red Cliff Tribal Historic Preservation Office)

**11:00 a.m. Discussant: Working Together: is the Process More Important than the Product?**

Larry J. Zimmerman (Indiana University-Purdue University Indianapolis)

**11:15 a.m. Discussant**

Dale R. Henning (Research Associate, Illinois State Museum)

**9:00 a.m. – 12:00 p.m. Saturday: General Session**

*Applications of Advanced Technology in Archaeology*

Chair: Colin Betts

Room 243

**9:00 a.m. In Search of the Elusive “East Fork (Gridiron) Earthwork” in Ohio**

Mark L. Madsen (Member of the C.A.S., S.S.A.S., and I.A.A.A.)

**9:15 a.m. Multi-Instrument Geophysical Survey of Two Bird Effigy Mounds in Allamakee County, Iowa.**

Colin Betts (Luther College)

**9:30 a.m. Pump Up The Volume: Aerial and Drone Based LiDAR Point Cloud Comparisons at Angel Mounds (12VG1)**

Christina Friberg (Indiana University Bloomington), David Massey (Indiana University Bloomington), Quinn Lewis (Indiana University Bloomington), Edward Herrmann (Indiana University Bloomington)

**9:45 a.m. Peter Village and the Production of Space: New Research at an Unusual Enclosure in Central Kentucky**

Carly DeSanto (Department of Anthropology and Geography, Colorado State University), Edward R. Henry (Center for Research in Archaeogeophysics & Geoarchaeology (CRAG), Colorado State University)

**10:00 a.m. Investigating the Accuracy of 3D-Photogrammetry in Relation to Artifacts**

Nicolette Pegarsch (University of Wisconsin-La Crosse)

**10:15 a.m. Break**

**10:30 a.m. Habitation and Interaction at the German Site (11C377)**

Zoe Doubles (University of Louisville), Alana Surowiec (Center for American Archeology), Tania Milosavljevic (University of Wisconsin-Milwaukee), Anna Lockhart (Vassar College), Jason L. King (Center for American Archeology), Jane E. Buikstra (Arizona State University)

**10:45 a.m. Bison in Wisconsin Archaeology: Perspectives from GIS Modeling**

Andrew M. Saleh

- 11:00 a.m.      When is a Mound a Mound?: a Ge archaeological Perspective**  
 Harry M Jol (Department of Geography and Anthropology, University of Wisconsin-Eau Claire), Garry L. Running IV (Department of Geography and Anthropology, University of Wisconsin-Eau Claire)
- 11:15 a.m.      Magnetic Susceptibility Reconnaissance at the Tobias Site**  
 Geoffrey Jones (Archaeo-Physics LLC), Nikki Klarmann (Kansas Historical Society/Michigan State University)
- 11:30 a.m.      New Views of Sacred Landscapes: Geophysical and Remote Sensing of Earthworks Sites in the Upper Midwest**  
 Geoffrey Jones (Archaeo-Physics LLC)
- 11:45 a.m.      MnModel Phase 4: Building an Updated Archeological Predictive Model for the State of Minnesota**  
 Andrew A. Brown (EARTH Systems Laboratory, Minnesota State University Mankato), Alec Anton (Department of Anthropology, Minnesota State University Mankato), Elizabeth Hobbs (EARTH Systems Laboratory, Minnesota State University Mankato)

**9:00 – 10:30 a.m. Saturday: General Session**

*People, Settlements, and Landscapes*

Chair: Susan C. Mulholland

Room 245a

- 9:00 a.m.      Woodland Period Settlement Succession in the Middle Scioto Valley: Phase III Investigations at the Columbus Southerly Sites, Franklin County, Ohio**  
 Kevin R. Schwarz (ASC Group, Inc.)
- 9:15 a.m.      Taking Directions from Blood Run**  
 George W. Shurr (GeoShurr Resources)
- 9:30 a.m.      Expanding Huber: Recent Findings from Northern Illinois Reveal New Aspects of Protohistoric Lifeways and Environment**  
 Madeleine McLeester (University of Notre Dame), Mark R. Schurr (University of Notre Dame), Terrance Martin (Illinois State Museum)
- 9:45 a.m.      Results of Geomorphological and Phase II Archeological Investigations at 13AM615, Allamakee County, Iowa.**  
 Jared A. Langseth (Bear Creek Archeology, Inc.)

**10:00 a.m. Archaeology of the Reservoir Lakes, Northeastern Minnesota**

Susan C. Mulholland (Duluth Archaeology Center)

**10:15 a.m. The Emergence of Meaning Through Place at Two Late Cahokian Sites**

Erin M. Benson (University of Illinois at Urbana-Champaign)

**9:00 – 10:00 a.m. Saturday: General Session**

*Studies of Death and Burial*

Chair: Kathleen T. Blue

Room 245b

**9:00 a.m. “Of Little Archaeological Value”: the Remains of the “Unknown 15” Lost and Found**

Jennifer E. Mack (University of Iowa Office of the State Archaeologist)

**9:15 a.m. Late Woodland "Battle" at Koster Mounds? Evidence from Paleopathology**

Della Collins Cook (Indiana University)

**9:30 a.m. Scioto Hopewell Souls and Intercommunity Alliance-Making: Three World-View Metaphors that Scioto Hopewell Peoples Lived**

Christopher Carr (Arizona State University)

**9:45 a.m. Osteological Analysis of a Possible Archaic Burial from Clay County, MN**

Kathleen T. Blue (Minnesota State University, Mankato)

**9:30 – 11:30 a.m. Saturday: General Poster Session**

*Technology in Archaeology 2*

Room 279a

**1 When Old Maps Meet New Tech: Exploring Northern Wisconsin’s “Indian Trails”**

William M. Balco (University of North Georgia), Eric E. Burant (University of Wisconsin-Milwaukee)

**2 Aerial Thermography at Two Historic Sites in Iowa**

Angela R. Collins (University of Iowa Office of the State Archaeologist)

**3 Examining Village Space in the Spring Creek Valley: Organizing Spatial Data from the Burnside School Site**

Edward Fleming (Science Museum of Minnesota), Jasmine Koncur (Science Museum of Minnesota)

**4 MnModel Phase 4: Building an Updated Historic Hydrographic Model for the State of Minnesota**

Alec Anton (Minnesota State University, Mankato), Andy Brown (EARTH Systems Laboratory, Minnesota State University Mankato), and Elizabeth Hobbs (EARTH Systems Laboratory, Minnesota State University Mankato)

**5 Geophysical Investigations of the Kiwanis Site, Lower Chippewa River Valley, Wisconsin**

Luke Burds (Minnesota State University, Mankato), Richard Mataitis (Minnesota State University, Mankato), Ronald C. Schirmer (Minnesota State University, Mankato), Phillip H. Larson (Minnesota State University, Mankato), Garry L. Running IV (University of Wisconsin-Eau Claire), Brittany Rickey (University of Wisconsin-Eau Claire), Matthew Mangin (University of Wisconsin-Eau Claire), Eric Drost (University of Wisconsin-Eau Claire)

**9:30 – 11:30 a.m. Saturday: General Poster Session**

*Archaeological Practice and Bioarchaeology*

Room 279b

**1 Campus as Laboratory: an Oral History of MSU's Campus Archaeology Program**

Autumn M. Painter (Michigan State University), A.L. McMichael (Michigan State University)

**2 Not Always Rainbows and Unicorns...(A Brief Introduction to Biological Hazards in the Field)**

Steven A. Katz (Atwell, LLC), Elizabeth Wilk (EBI Consulting), Lucas Howser (Midwest Archaeological Research Services)

**3 Transportation Solutions for Archaeological Sites Affected by Erosion**

Brennan J Dolan (Iowa DOT)

**4 Experiential Learning – Taking the Archaeological Experience Online**

Elizabeth K. Johnson (Associate Dean, Southern New Hampshire University)

**5 Assessment of Mortuary Data at the Williams Cemetery (33-WO-7A)**

Laura M. Bossio (University of Michigan)

**10:15 – 11:45 a.m. Saturday: Symposium**

*Ritual as Function and Process in Midcontinental Pit Features*

Chair: Deniz Kaya

Room 245b

- 10:15 a.m. Ritual Contexts from Oneota Sites in La Crosse, Wisconsin**  
Constance Arzigian (Mississippi Valley Archaeology Center, University of Wisconsin-La Crosse), James Theler (Mississippi Valley Archaeology Center, University of Wisconsin-La Crosse)
- 10:30 a.m. Layering the Cosmos: Structured Deposits and Stratified Pits in Late Precontact Northern Ohio**  
Brian G. Redmond (Cleveland Museum of Natural History)
- 10:45 a.m. Powerful Substances in Special Pits at 11th Century Shrine Complexes**  
Timothy R. Pauketat (ISAS University of Illinois), Susan M. Alt (Indiana University)
- 11:00 a.m. Pits as Place: an Exploration of the Socio-Cultural Significance of Cache Pits**  
Sean Dunham (Chippewa National Forest)
- 11:15 a.m. Reflections of Protohistoric Ritual in Pits at the Huber Phase Middle Grant Creek Site**  
Mark Schur (University of Notre Dame), Madeleine McLeester (University of Notre Dame)
- 11:30 a.m. The State of Ritual in Pits: what can the Pits in Neolithic Thrace Tell Us about Ritual Activities in Midwestern Pits?**  
Deniz Kaya (University of Notre Dame)

**10:45 – 11:45 a.m. Saturday: Symposium**

*Archaeology of Minnesota's Red Rock Ridge*

Chair: Tom Sanders

Room 245a

- 10:45 a.m. Introduction: a History of the Red Rock Ridge Research Group**  
Tom Sanders (Red Rock Ridge Research Group), Joe Williams (Red Rock Ridge Research Group), Tom Ross (Red Rock Ridge Research Group), Bob Larsen (Red Rock Ridge Research Group)

- 11:00 a.m. Archaeology on the Red Rock Ridge - 2011-2019 Field Seasons**  
 Brian Hoffman (Hamline University), Thomas Sanders (Red Rock Ridge Research Group), Bob Larsen (Red Rock Ridge Research Group), Joe Williams (Red Rock Ridge Research Group), Forest Seaberg-Wood (Hamline University), Charles Broste (Minnesota Historical Society), and David Tennesen (Hamline University)
- 11:15 a.m. Preserving the Carvings at Jeffers Petroglyphs Through Photography**  
 Charles Broste (Red Rock Ridge Research Group)
- 11:30 a.m. New Discoveries in Ancient Astronomy on Southwest Minnesota's Red Rock Ridge**  
 Tom Sanders (Red Rock Ridge Research Group, Hamline University, Minnesota Historical Society, Retired)

**1:30 – 3:15 p.m. Saturday: General Session**

*Studies in Tool Use, Manufacturing, and Type*

Chair: Dan Wendt

Room 241

- 1:30 p.m. Prehistoric Copper Mining as an Industry**  
 Ryan Edward Peterson (Indiana University)
- 1:45 p.m. A Study of Prehistoric Mining Hammerstones from Michigan**  
 Katherine Trotter (University of Wisconsin-Madison)
- 2:00 p.m. Understating the Construction of Oneota Vessels with Experimental Archaeology**  
 Marina Tingblad (University of Wisconsin-La Crosse)
- 2:15 p.m. Oneota Lithic Economy at the Schmeling Site (47JE833) in Southeastern Wisconsin**  
 Megan Harding (University of Wisconsin-Milwaukee)
- 2:30 p.m. Technological Choice in Pottery Production at Wickliffe Mounds, Kentucky**  
 Anthony P. Farace (University College London)
- 2:45 p.m. Stone Tool Survival Skills on the Minnesota Prairie: the Strategic Choice Between Low Quality Local Materials and Distant Premium Toolstone Sources**  
 Dan Wendt (Minnesota Archaeological Society)

**3:00 p.m.      Paleoindian Bifaces to Woodland Blades: Long-term Utilization of the Boundary Waters Canoe Area Wilderness, MN**  
Mark P. Muñiz (Department of Anthropology, St. Cloud State University)

**1:30 – 3:00 p.m. Saturday: General Session**

*Plants, Animals, and People*

Chair: Richard W. Edwards IV

Room 243

- 1:30 p.m.      Floodplain Cucurbit Dispersal During the Late Woodland ca. 1000 BP: an Example from the Detroit River, Michigan(or) Bill’s Seed**  
William A. Lovis (Michigan State University), G. William Monaghan (Hayes & Monaghan, Geoarchaeologists, LLC), Daniel R. Hayes (Hayes & Monaghan, Geoarchaeologists, LLC), Kathryn C. Egan-Bruhy (Commonwealth Heritage Group, Inc.)
- 1:45 p.m.      Food Production in the Border Lakes Region: an Archeological Investigation at Voyageurs National Park**  
Tim Schilling (NPS-Midwest Archeological Center)
- 2:00 p.m.      Cooking Up a Common Ground: Vessel Use and Social Interactions at Morton Village**  
Jeffrey M. Painter (Michigan State University)
- 2:15 p.m.      Eating and Building in a Time of Conflict: Plant Remains from the Orendorf (11F1284) Site in the Central Illinois River Valley**  
Kimberly Schaefer (Illinois State Archaeological Survey)
- 2:30 p.m.      Dog-Human Relationships in the Late Prehistoric Northern Prairie Peninsula**  
Richard E. Edwards IV (Commonwealth Historical Group, Inc.), Robert Jeske (University of Wisconsin-Milwaukee)
- 2:45 p.m.      Soil Humic Acids - Applications for Archaeology and Phytolith Analysis**  
Wendy Munson-Scullin (Midwest Ethnohorticulture)

**1:30 – 3:30 p.m. Saturday: Workshop**

*Radiocarbon Dating in the Midwest: Review and Recommendations*

Organizer: Linda Scott Cummings

Room 245a

- 1:30 p.m. Radiocarbon Dating Basics, Assumptions, and Exceptions**  
Linda Scott Cummings (PaleoResearch Institute)
- 1:45 p.m. Freshwater Reservoir Effect (FRE) and the Rhizosphere**  
Linda Scott Cummings (PaleoResearch Institute)
- 2:00 p.m. Charred Food Crusts and Annuals, Laboratory Techniques to Mitigate FRE**  
Linda Scott Cummings (PaleoResearch Institute)
- 2:15 p.m. Bones: Bone Collagen, Burned Bones, and Calcined Bone**  
Linda Scott Cummings (PaleoResearch Institute)
- 2:30 p.m. Summary: Tying It All Together**  
Linda Scott Cummings (PaleoResearch Institute)
- 2:45 p.m. Questions and Discussion (extended time)**  
Linda Scott Cummings (PaleoResearch Institute)

**1:30 – 3:30 p.m. Saturday: General Poster Session**

*Historical Archaeology*

Room 279a

- 1 Talking Trash: Public Health in 19th and 20th Century Bronzeville (Site 11CK1235)**  
Noel Hinch (Marquette University)
- 2 Till Death Do We Part? How Gender and Identity are Preserved in 20th Century Gravemarkers**  
Trisha Walker (Minnesota State University, Mankato)
- 3 2019 Investigations at the Cloudman site (20CH6): New Opportunities for Dating**  
Elspeth Geiger (University of Michigan), Eloise Janssen (University of Michigan)
- 4 Geophysical Investigations of Redeemer Cemetery, Henderson, Minnesota**  
Luke Burds (Minnesota State University, Mankato), Ronald C. Schirmer (Minnesota State University, Mankato), Richard Mataitis (Minnesota State University, Mankato), Andrew A. Brown (Minnesota State University, Mankato), Donald W. Johnson (Retired), Alec Anton (Minnesota State University, Mankato)

**5 The Beaded Belt Story: a Fox Nation Timeline**

George Horton (Independent Scholar, Iowa Archeological Society)

**3:00 – 4:00 p.m. Saturday: Meeting**

Council for Minnesota Archaeology

Room 245b

**3:30 – 4:30 p.m. Saturday: Business Meeting and Awards Ceremony**

Midwest Archaeological Conference, Inc.

Room 243

**5:00 – 9:00 p.m. Saturday Evening Reception**

Grand Hall, Mankato Civic Center

## Notes

## Notes

## Notes

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George Washington Inaugural Button, 1789. Script monogram GW in central circle, surrounded by a ring with the words LONG LIVE THE PRESIDENT. Around all is an endless chain of 13 links, each enclosing the script initials of one of the 13 original states. Case made in Hagerstown, MD



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—John F. Doershuk, *State Archaeologist and Director, University of Iowa Office of the State Archaeologist*

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—*American Archaeology* book review 2019, 23(3):52

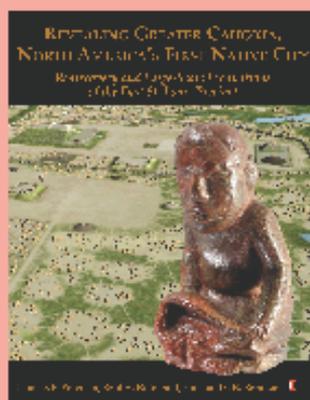
Greater Cahokia actually was one of the largest urban concentrations of people anywhere in the world at that time. This was the lesson we learned from digging Stonehenge—that it’s a small part of a much bigger complex. When I came to visit Cahokia it was very clear that it was the same thing.

—Michael Parker Pearson, *Professor of British Later Prehistory, Institute of Archaeology, University College London*

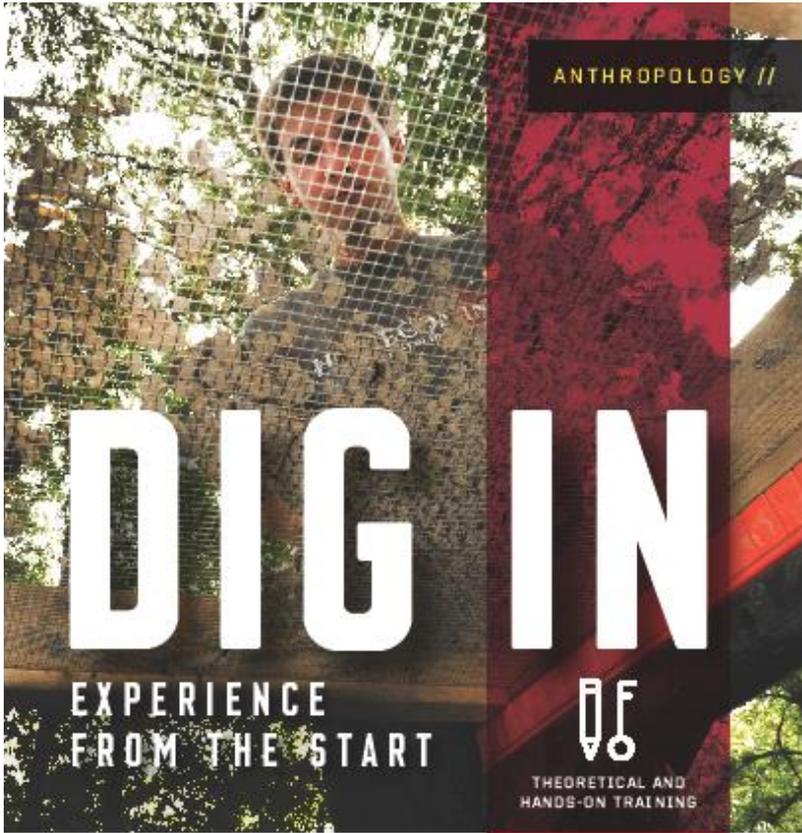
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