

DISCOVERING THE KALAPUYA MOUNDS

Using LiDAR to Reveal the Archaeological Landscape

Hidden in the Willamette Valley are hundreds of Kalapuyan mounds. These low-lying earthen features have long been considered culturally significant to the Confederated Tribes of Grand Ronde. We still have much to learn about why and how pre-contact people created these sites.

The first step in understanding and protecting the mounds is identifying where they are. Many of them have a low profile, were disturbed during the historic period, or are overgrown, making identification difficult using traditional field methods. Adding to these difficulties is that much of the Willamette Valley is privately owned, limiting access.

Portland State University graduate student Tia Cody and her advisor Dr. Shelby Anderson have partnered with the Confederated Tribes



Roughly 400 mounds are thought to be within the Calapooia River watershed, though only 22 sites have been formally recorded.

of Grand Ronde to create a predictive model to locate these features across the Calapooia River watershed using LiDAR (light detection and ranging) data. LiDAR uses aircraft-mounted lasers to scan the surface to create 3-D models.

With permission from private landowners, likely site locations are then visited to “ground truth” the model’s predictions. Cody has already confirmed the presence of several mound sites.

LiDAR technology can change our approach to archaeology in the Pacific Northwest, where dense forest growth, uneven terrain, and access are major obstacles in identifying sites. By viewing archaeology on the landscape level, we can also better understand how sites are related.

More importantly, this research demonstrates the possibilities that occur when universities, tribes, and the community collaborate to learn more about the past.



Dense vegetation can make identifying sites difficult. Can you see the mound in this photo?

OCTOBER

Tue 2 **Champoeg Archaeological District: What We Know 34 Years After Inclusion on the National Register of Historic Places**

Oregon Museum of Science and Industry, Portland, 7:00 pm

Nancy Nelson, Oregon Parks and Recreation Department, provides an overview of what we now know from the archaeological record since Champoeg was listed on the National Register of Historic Places.

Sponsored by Oregon Archaeology Society



Thu 4 **According to Hippocrates: A Medical Icon and the Ethics of Authority**

College Of Law Rm 201 at Willamette University, Salem, 7:30 PM

Eric Nelson, Pacific Lutheran University, follows Hippocrates’ path from iatros to icon, and healer to hero, as we trace him through the ages as a figure of authority and archetypal ideal.

Sponsored by Willamette University



Fri 5 **Forgotten Shores: The Search for Archaeological Evidence of Oregon’s Earliest Coastal Peoples**

Smith Rock State Park near Redmond, 7:00 PM

Presented by Loren Davis from Oregon State University. OPRD parking permits required for parking.

Sponsored by Oregon Parks and Recreation Department



Fri 12 **Seeing Beneath the Soil: Remote Sensing Techniques in Archaeology**

Smith Rock State Park near Redmond, 7:00 PM

Presented by Patrick O’Grady from University of Oregon. OPRD parking permits required for parking.

Sponsored by Oregon Parks and Recreation Department



Fri 19 **In Search of Coyote: Examining the Identity of Native America’s Most Provocative Cultural Hero**

Smith Rock State Park near Redmond, 7:00 PM

Presented by Jarold Ramsey from University of Rochester. OPRD parking permits required for parking.

Sponsored by Oregon Parks and Recreation Department



Wed 24 **Thu 25** **Grand Ronde History and Culture Summit**

Grande Ronde Tribal Gymnasium in Grande Ronde, 8:00 am – 5:00 pm

Two days of interdisciplinary lectures and workshops about history, anthropology, language, the environment and strengthening community through culture.

Please contact the Grande Ronde www.grandronde.org/HCsummit or call 503.879.5211 x2248 to register.



Thu 25 **Were Bronze Age Anatolian Sun-goddesses the Ancestors of Hecate?**

College Of Law Rm 201 at Willamette University, Salem, 7:30 PM

Mary Bachvarova, Willamette University, delves into possible parallels with Bronze Age goddesses in Anatolia, using Hittite narratives, prayers, and magical incantations performed by “Old Women” that mention the Sun-goddess of the Earth and the Sun-goddess of the holy city Arinna.

Sponsored by Willamette University



Fri 26 **Ancestral Voices: The Ancient Languages of the Warm Springs Reservation**

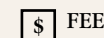
Smith Rock State Park near Redmond, 7:00 pm

Presented by Dallas Winshut from Confederated Tribes of Warm Springs. OPRD parking permits required for parking.

Sponsored by Oregon Parks and Recreation Department



INTENDED AUDIENCE AGE



FEE

NOVEMBER

Tue 6 **Great Basin Archaeology**
Oregon Museum of Science and Industry,
Portland, 7:00 pm

Scott Thomas has been the Burns BLM District archaeologist for the last 23 years. He is knowledgeable in obsidian hydration dating and obsidian sourcing, ethnobotany, late prehistoric to proto-historic Clovis, and pre-Clovis archaeology.
Sponsored by Oregon Archaeology Society

12+

Thu 8 **We Once Were a Numerous People: Long-term Legacies of Smallpox and Cultural Surveillance on the Northern North American Great Plains**
College Of Law Rm 201 at Willamette University, Salem, 7:30 PM

Kacy Hollenback, Southern Methodist University, explores how the Hidatsa, a group of earthlodge villagers in North Dakota visited by Lewis and Clark and home of Sacajawea, responded to the smallpox epidemics of the 18th and 19th centuries.
Sponsored by Willamette University

18+

DECEMBER

Tue 4 **Imported ceramic wares at North West Company fort sites along the Columbia River**
Oregon Museum of Science and Industry,
Portland, 7:00 pm

Robert Cromwell, Fort Vancouver National Historic Site, discusses the analysis of imported European ceramics used by one of the first Canadian fur trading companies in forts established along the Columbia River in the 18th and 19th centuries.
Sponsored by Oregon Archaeology Society

12+

JANUARY

Tue 8 **Rock Art**
Oregon Museum of Science and Industry,
Portland, 7:00 pm

Presented by Jim Keyser, formerly of the US Forest Service.
Sponsored by Oregon Archaeology Society

12+

FEBRUARY

Tue 5 **History/Archaeological archives of Joint Base McCord-Lewis, Washington and Greene Park Excavations**
Oregon Museum of Science and Industry,
Portland, 7:00 pm

Presented by Heidi Pierson from Lewis Military Museum.
Sponsored by Oregon Archaeology Society

12+

Thu 8 **Connecting the Dots: New Perspectives on Mobility and Gathering in Ancient Mediterranean Sanctuaries**
College Of Law Rm 201 at Willamette University, Salem, 7:30 PM

Troels Myrup Kristensen, Aarhus University, takes up the challenge of "connecting the dots" in the archaeology of ancient Greek and Roman sanctuaries that traditionally has focused on buildings and monuments as singular, isolated units.
Sponsored by Willamette University

18+

MARCH

Tue 5 **Western Message Petroglyphs**
Oregon Museum of Science and Industry,
Portland, 7:00 pm

Presented by Leigh Marymor from the Museum of Northern Arizona.
Sponsored by Oregon Archaeology Society

12+

APRIL

Tue 2 **Hanford Archaeology: Overlooked and Underrated**
Oregon Museum of Science and Industry,
Portland, 7:00 pm

Presented by Doug McFarland from Hanford Reach.
Sponsored by Oregon Archaeology Society

12+

MAY

Wed-Sat 1-4 **Archaeology Channel Conference on Cultural Heritage Media**
Hilton Eugene and Conference Center,
Eugene

A gathering to discuss audiovisual media in the study, preservation and promotion of cultural heritage. Conference attendance requires registration, please visit archaeologychannel.org for details.
Sponsored by The Archaeology Channel and the Archaeological Legacy Institute

\$ 18+

Thu-Sun 2-5 **The Archaeology Channel International Film Festival**
The Shedd Institute in Eugene

Archaeology Channel screens the top films in the cultural heritage/archaeology genres from around the world. Visit archaeologychannel.org for details.
Sponsored by The Archaeology Channel

All+

Tue 7 **Excavations in the Valley of the Kings and Extensive Mapping Efforts**
Oregon Museum of Science and Industry,
Portland, 7:00 pm

Presented by Kent Weeks from the Thebian Mapping Project.
Sponsored by Oregon Archaeology Society

12+

JUNE

Sat 1 **2019 Portland Archaeology Roadshow**
Hoffman Hall at Portland State University

A free community event designed to introduce the public to archaeology and heritage and instill a sense of excitement and stewardship for cultural resources and local history. It includes hands on activities, stone tool making demonstrations, a chance to meet real archaeologists, and a panel of experts, among a rotating cast of other exciting exhibits.
Sponsored by Portland State University

All+

OREGON ARCHAEOLOGY EVENTS 2018-2019

Join us for these upcoming
archaeology events
throughout the state

All events except those noted
are ADA-accessible

INTENDED
AUDIENCE AGE

FEE