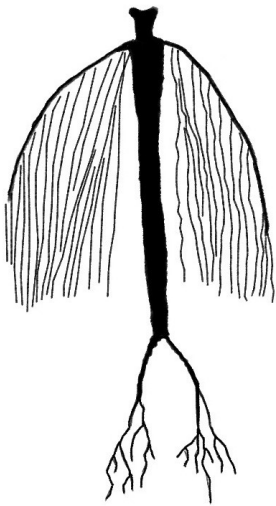


The Uncompahgre Journal

November 2021 CHIPETA CHAPTER OF THE COLORADO ARCHAEOLOGICAL SOCIETY Volume 38 Issue 9

Mark Your Calendar

Nov 17: Chipeta Chapter monthly meeting. Carol Patterson speaks about Clouds in Prehistoric Art (**right**). United Methodist Church, 19 S Park Ave, Montrose. Masks strongly recommended. 7:00 pm.



Dec 15: Chipeta Chapter Christmas party. Time and place to be determined. Suggestions welcome. Donations of items sought for silent auction. Proceeds go to the Squint and Juanita Moore Scholarship Fund.

Our November Presentation

Clouds in Prehistoric Art of the Southwest

By Carol Patterson

Rain is of dire importance for survival in the southwest USA. Prehistoric people gave voice to cloud-spirits through ritual prayers and rain ceremonies.

They viewed their world as animate, and they engraved or painted imitative rain-making ceremonies to motivate cloud behavior. An examination of proposed cloud images accompanied by lightning, thunder, and rainbows, are discussed in context with extensive ethnographic documentation. Though many varieties of cloud forms occur, they all share a common theme describing 'rain bringers'. The cultural identity for the Zuni, Keres, and Athapaskan (or Fremont) is based on diagnostic elements in the panels that are mirrored in the emergence stories of each group. Cloud themes appear to dominate the concern for these agricultural groups.



Photo courtesy of Carol Patterson

This talk will also show examples of cloud imagery that span a time from 1000 BC to AD 1300, based upon diagnostic elements in the rock art panels, mirrored in the emergence stories that frame the different worldviews of each group.



Our November Speaker: Dr. Carol Patterson



Carol Patterson, formerly of Montrose, is well-known to many of us. She is a cultural anthropologist and archaeologist with a bachelor's degree from the University of New Mexico, a master's degree in cultural anthropology from Columbia Pacific University, and a doctorate in anthropology from James Cook University in Queensland, Australia, with a specialization in rock art studies. She's published several books, and for more than eight years she worked closely with Ute elder Clifford Duncan to interpret Ute rock art in Colorado and Utah. She is owner and principal investigator of Urraca Archaeological Services, and resides in Bluff, Utah, where she is now devoted full time to writing, research and rock art documentation.

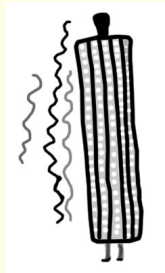
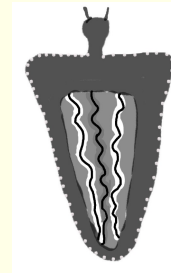


Photo and images courtesy of Carol Patterson

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Dave Batten, david.batten@enmu.edu



President's Corner

by Sally Johnson

Photo by Sally Johnson

I want to thank everyone who helped with the Annual Conference. We had some great feedback on how great it was as an event. There was even a mention that we should do another one in a couple of years, which I politely declined. There were approximately 82 registered for the meeting and we had 37 people for the in-person attendance. The good news was that we broke even on the financial aspect. The other good news is we will not have to host this event for another 10 years, maybe.

I also want to thank Annette Butts for all the years of holding the secretary position (*see below*). She always kept us on track with that gentle hand that she has of leading. She is not going anywhere but apparently, after serving for nine years, she has a large bucket list that needs to be started. If anyone

would like to step up and fill her shoes, please let us know. Annette will be glad to guide you through the process.

We will be discussing the Christmas party soon and the date will be on Dec 15th. We always have a silent auction for the scholarship fund, so please start thinking of an item to donate. We will be picking a place soon, so if you have a suggestion besides 2 Rascals, let us know. Again thank you for all your help at the meeting.

Announcement

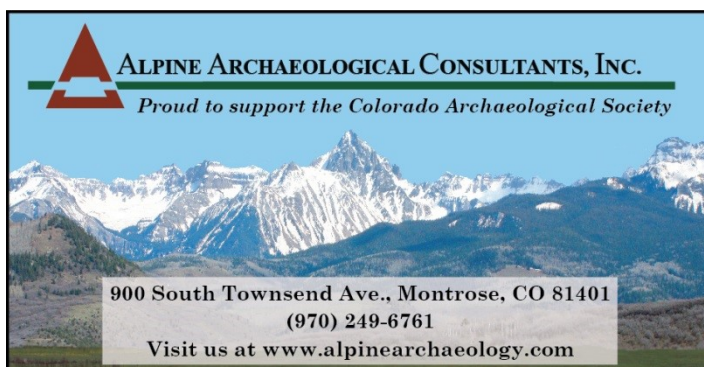
From Annette Butts

To all: I will not be running for Board member in 2022. I think everyone knows I have been the secretary and it will be up to the Board to appoint a new secretary. It has been great fun being on the Board for nine years, but I think it is time for a change. I am not going anywhere. I will still be around and available for whatever help is needed. If you would like to be on the Board or know of someone who would be good at the job, please contact me or Sally.

The Squint and Juanita Moore Scholarship

Created in honor of Chipeta Chapter founding member Carlyle "Squint" Moore and his wife, the scholarship is awarded each year to a deserving high school senior or college student intending to enroll or already enrolled in an Anthropology or Archaeology program. Students can apply online at collegeXpress—and note that the deadline is April 1.

The scholarship is managed by the Montrose Community Foundation. If you wish to donate, please send your tax deductible donations to the Montrose Community Foundation, PO Box 3020, Montrose, CO 81402. Please put "Moore Scholarship" in the memo line.



Chapter Achievement Awards: CAS Annual Meeting

By Bill Harris

During CAS's 2021 Annual Conference banquet two Chipeta Chapter members were recognized for their contributions to archaeological field work and education. Russ Barr and Alma Evans were awarded the Colorado Archaeological Society's Chapter Achievement Award. It was a festive evening with Russ and Alma in attendance as well as Russ's wife, Patti and numerous chapter members.



Photo courtesy of Leigh Ann Hunt

Russ Barr has been a site steward for three West End sites for over ten years. He and Patti have led numerous field trips to those sites over the years. He has regularly attended chapter meetings and other activities. Russ participated in the Spring Creek Canyon survey for the BLM, the Dry Mesa survey for the USFS, the re-recording of Huscher's HMF site for the USFS, and assisted with the construction and installation of the Ft. Crawford interpretive sign. He has served as a volunteer docent/tour guide for the Shavano Valley rock art site and has aided in the monitoring of the site and assisted with educational events sponsored by the chapter. He was the first to report a trespass incident near one of his rock art sites, a rare instance where the offending party was given a citation.

Russ's congenial nature and sense of humor has won him many friends during his interactions with the public and he has been a valued team member on field projects. He is knowledgeable about archaeology and enjoys sharing it with others.

Alma Evans has been a staunch site steward for several sites including the Eagle Rock Shelter. Growing up in Shavano Valley, she has first-hand knowledge of the area's prehistory. She has served as a docent/tour guide for the Shavano Valley rock art site for many years. She has studied the Ute culture and aspects of the unique rock art throughout our Western Slope area.

She has shared her knowledge during educational events and programs sponsored by the chapter, as well as other groups such as the Interpretive Association of western Colorado, Surface Creek Historical Society, and others. Her respect for Native American history and prehistory is on full display during her presentations. She has donated hundreds of hours to site monitoring and public education.

Colorado Archaeological Society 86th Annual Meeting October 8-9, 2021, Montrose, Colorado

By Nick Ard

For the first time in two years the CAS annual meeting included an in-person component hosted by Chipeta Chapter in Montrose. The hybrid meeting was accessible through Zoom as well as allowing for in person attendance at The Holiday Inn Express. The two day event included catered meals as well as snacks and a silent auction.

The annual business meeting was held on Saturday afternoon and was open to all members. A quorum was present and the abbreviated proceedings made several decisions affecting CAS operations this coming year. Several committee chair resignations were announced. Tami Coyle has resigned from Education and Outreach, Peter Faris as CAS representative to the Archaeology and Historic Preservation Committee (AHPC), and Jason LaBelle from the Awards Committee. Searches have begun to fill these vacancies.



*Photo courtesy of
Leigh Ann Hunt*

Five People were recognized for outstanding service to their chapters. Two of the “Chapter Achievement” awards went to Chipeta Chapter members Alma Evans and Russ Barr who were present to receive their pins.

Among other business items, quarterly meeting locations for 2022 were selected as follows:

- January - A virtual meeting with no in person component.
- April - hosted by Indian Peaks.
- July - Grand Junction (alt. Hisatsinom [Cortez])
- Annual Meeting - Northern Colorado Chapter, in Fort Collins.

Officers elected for 2022 include Sharon Murphy as president, Suzanne Denlinger as vice president, Larry Beidle as recording secretary, Michele Giometti as Treasurer and Karen Kinnear as executive secretary.

As usual, the 2021 Annual Conference Lecture Program featured fascinating presentations. Several of the lectures were given by Alice Hamilton scholarship winners. The day began with Bill Harris outlining for the state the many contributions of the Chipeta Chapter and west slope early archaeologists such as Squint

(continued from preceding page)

Moore, C. T. Hurst, Bill Buckles and others. Bill included a discussion of locally known sites such as the Harris Site.

Lectures at this year's meeting, presented in person as well as virtually, were noteworthy for the variety of regions and time periods covered. Mike Prouty with Alpine Archaeological Consultants Inc. reported on the excavation of two middens associated with the General William Jackson Palmer home in Colorado Springs. Another Alpine Consultant, Michelle Slaughter, reported upon the oral tradition as well as the excavation remnants of the early 20th century African American Settlement near La Junta, Co known as "The Dry."



Carl Conner of the Dominguez Archaeological Research Group (DARG) addressed Northern Colorado's Pintada National Historic District. Concerned with processes across the border in Utah, Katie Richards spoke about the varieties of Fremont ceramic designs and how they help define the movement and timing of Fremont culture. Carlton Grover of the Pawnee Nation of Oklahoma advocated for research that uses both carbon dating and oral traditions, and provided an example from the Great Plains. In southwest Colorado, Bruce Bradley covered the Pueblo II Wallace site and the evidence of

repurposing rooms in the Pueblo, while Grant Coffey impressed us with the 3D modeling being done at Crow Canyon. Ray Sumner with CSU is finishing his thesis with an in-depth investigation of the events in Colorado history that occurred after The Sand Creek Massacre. Farther afield, Matt Balance spoke about how the Spanish changed the Inca trails in the Andes to better serve their colonial objectives.

The Keynote Address for the conference was given by Ralph Burrillo, a Flagstaff Arizona based author. Ralph's talk, entitled "The Battle for Bears Ears:

120 Years of Conservation History" chronicled the long history of efforts to preserve the Cedar Mesa and Grand Gulch area of southern Utah. The lecture spanned the time from the 19th century to recent political events. Interestingly, the original boundaries defined in the Obama administration were restored just 24 hours before his presentation and necessitated a few revisions.



Photos by Rebecca Simon

Did you miss the Conference? See below...

CAS 86th Annual Conference Virtual Exhibit

Please visit the Colorado Archaeological Society's [86th Annual Conference Virtual Exhibit](#). Here you'll find a recap of some of the conference proceedings including the [conference program](#), session [agendas and introductions](#), some of the speaker presentation [slide decks](#) and [videos](#), and the Pueblo Chapter, P3 project and Alice Hamilton Scholar [e-posters](#). In addition to conference talk videos, we include a video of R.E. Burrillo's keynote [Bear's Ears talk](#) and Kari Schleher's virtual tour of the [Maxwell Museum's pottery collection](#).

Field Trip to Vernal Utah

By Sally Johnson

The Vernal field trip was outstanding despite the weather problems on the second day. On the first day, we met up with our wonderful guide Darlene. She lives in the area and offered to lead us to some sites (of course, she knows all the landowners of the private sites and has them on speed dial). McConkie Ranch was scheduled for the first day, but she included other sites before and after the Ranch. McConkie did not disappoint. I want to thank Susan Thiele and Jim Cates for the inspira-

tion to go visit this area with the superb article in a previous journal. One important aspect of overnight or multiple day trips is the dinner gatherings. Darlene and her husband joined us on Monday night for a delightful meal and conversation.

The next day it rained and started to snow. We tried to go to McKee Springs and Island Park, but the road was just a muddy mess. The highlight of that drive was to see this giant enclosed private water slide on private property in the middle of nowhere. We were like kids looking through the candy store window in awe. Once we remembered why we were in the rain, we headed to Dinosaur National Park. Darlene checked to make sure that Josie's Cabin Road was open and off we went. We viewed one Panel (Cub Creek), then headed down to see just a few smaller ones (including the huge Lizard figure). We did visit Josie's Cabin with the tales told by Darlene of the pioneer woman. By that time the rain was steady and we headed back to the visitor center with one last stop at the first nearby site.

At that time we said goodbye to our outstanding guide, Darlene (who received a call from home that there were 5 inches of snow and it was building up). There will be another trip with Darlene in the spring or fall next year to this hidden gem of Utah/Colorado.

Photos courtesy of Sally Johnson

From the Editor

L'Anse aux Meadows is a beautiful name for the well-studied site where the Vikings built an encampment for a few years in Newfoundland near the end of the first millennium CE. I imagine most of you have heard that the site has been exactly dated now to the year of 1021. You probably also have heard that the date involved cosmic radiation and a C14 anomaly in 993 CE.

Previous attempts to date the site using C14 or dendrochronological (tree-ring) dating resulted in a spread of dates covering several hundred years. This is due to the inaccuracies of C14 dating in the 1960s and 70s when most of the work was done. It's not clear why they were unable to get good cutting dates of living trees through dendrochronology, but it was probably due to the lack of appropriate tree species with a well-established reference sequence. There was also documentation from several Icelandic sagas that allowed educated guesses as to the timing of the settlement, but those sagas were passed on orally for a couple of hundred years before they were finally written down.

Okay, so we know the new results and the background of less accurate dates. I'll try to explain how they were able to use the knowledge of the radiocarbon anomaly to establish the exact date of occupation. You should know that radiocarbon dating and dendrochronology are now commonly being used in concert to obtain more accurate results. Start with two solid dates: there are actually two C14 anomalies in the last half of the first millennium: in 775 and 993. Add one vague date of near the end of the first millennium. Now they needed wood samples from the L'Anse aux Meadows collections. They had to be clearly gathered by Europeans: i.e. cut with metal tools. It was important for the waney edge to be there (that's the outside edge of the wood inside the bark). And they had to more or less trust that the wood had been alive when it was cut.

In order to find a tree ring that had an anomalous amount of C14, they had to first find an approximate cutting date. For one thing, they needed to confirm

that the trees represented by the samples had been alive in 993 or 775. To begin, they sampled at least ten consecutive tree rings from each piece of wood, starting at the waney edge. They used a technique called wiggle matching, where they did a C14 analysis on each series of tree rings and compared it to a radiocarbon calibration curve (itself established from tree ring data). Statistical analysis of irregularities revealed a segment of the calibration curve that matched the sample. The wiggle matching results for each piece of wood indicated a probable cutting date between 1019 and 1024. They then used those dates to establish a range of six tree rings within which the year 993 should fall, from 26 to 31 years in from the waney edge. Each ring within that range on each wood sample was subjected to radiocarbon analysis. They again wiggle matched those results with a calibration curve. That clearly identified the anomaly year as the 28th ring (counting from the outside), which precisely established the cutting date at 1021.

Easy. Now you can do it. They ultimately used 127 radiocarbon measurements and two different labs (for quality control). They also created a number of thin sections of the wood to analyze the structure of the tree rings. With these, they were able to determine the season of cutting of two of the samples: spring and fall. I can barely comprehend the precision of the tools used to slice and dice the wood samples for analysis, nor the expense of the entire project.

Kuitema, M., B.L. Wallace, C. Lindsay, et.al.

2021 Evidence for European presence in the Americas in AD 1021. *Nature*, October 20, 2021 <https://doi.org/10.1038/s41586-021-03972-8>.

Galimberti, M., C. B. Ramsey, S. W. Manning

2004 Wiggle-Match Dating of Tree-Ring Sequences. *Radiocarbon* 46(2):917-924.



Chipeta Chapter
Colorado Archaeological Society
P.O. Box 593
Montrose, Colorado 81402



Membership Application

Date: _____

Name: _____

Street or RR Address: _____

City: _____ State: _____ Zip: _____

Telephone: _____

Email: _____

(email required to receive Chipeta Chapter newsletters & field trip info)

Check One:

_____ New

_____ Renewal

Annual Dues* (includes state CAS dues): Check one

_____ Family (2 or more members same household)\$40

_____ Individual\$35

_____ Student (Circle if Individual or Family)\$25

_____ Secondary (Circle one) Individual (\$10) or Family... (\$15)

_____ Opt out of printed *Southwest Lore*

**Southwest Lore* is the journal of the Colorado Archaeological Society: print copies are mailed quarterly, and a .pdf is posted to Member365 for download.

Photos by Dennis DeVore



Code of Ethics

As a member of the Colorado Archaeological Society, I pledge to:

- Uphold local, state, and federal antiquities laws.
- Respect the property rights of landowners.
- Report vandalism to appropriate authorities.
- Support only scientifically and legally conducted archaeological activities.
- Conduct field and/or laboratory activities using professionally accepted standards.
- Not condone the sale, exchange, or purchase of artifacts obtained from illegal activities.
- Be sensitive to the cultural histories and spiritual practices of groups that are the subject of archaeological investigation.
- Accept the responsibility, if serving as principal investigator, to publish the results and make the collection available for further study.

Signature: _____ Other Family Signature: _____

Make checks payable to "Colorado Archaeological Society" and mail the signed application to:

Chipeta Chapter
P.O. Box 593, Montrose, CO 81402

CHIPETA CHAPTER BOARD MEMBERS

- **President:** Sally Johnson, president@chipetachaptercas.org
- **Vice Pres:** Leigh Ann Hunt, vp@chipetachaptercas.org
- **Secretary:** Annette Butts, secretary@chipetachaptercas.org
- **Treasurer:** Jim Douras, treasurer@chipetachaptercas.org
- **CAS Rep:** Nick Ard, casrep@chipetachaptercas.org

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- **Membership:** Sally Johnson, membership@chipetachaptercas.org
- **Site Steward Coordinator (acting):** Leigh Ann Hunt, sitestewards@chipetachaptercas.org
- **Library:** Linda Manske, library@chipetachaptercas.org

OTHER COMMITTEES AND POSTS

- **Scholarship:** Jon Horn / Bill Harris / Fred Henderson, scholarships@chipetachaptercas.org

CHIPETA CHAPTER WEBSITE

- <https://www.chipetachaptercas.org>

TO JOIN OR RENEW:

- Go to the Chipeta Chapter website and follow the membership links.

Program for Avocational Archaeological Certification (PAAC)

For information on On-Demand PAAC courses, visit:

<https://www.historycolorado/paac-event-schedule>.

PAAC Contacts

Rebecca Simon

rebecca.simon@state.co.us
Assistant State Archaeologist/
303-866-4671

Dave Upchurch

PAAC Coordinator
paac@chipetachaptercas.org

Want More?

Archaeology Southwest is a great link to find out about current issues and events relating to Southwest Archaeology.

Field Trip Committee

Leigh Ann Hunt, Joe Oglesby, and George Decker

For more information on upcoming field trips and to sign up, please contact the Field Trip Leader

Masthead photo courtesy of Carol Patterson. All other unattributed photos are by the editor.