



# Sacramento Archeological Society, Inc.

## Newsletter

[www.sacarcheology.org](http://www.sacarcheology.org)

June/July/August - 2010

### ***"Night Out at the Museum"***

**Saturday, July 10 from 6:30pm – 8:30pm**

**Maidu Museum & Historic Site:**

**Indian Museum & Nature Learning Center**

1970 Johnson Ranch Drive, Roseville, CA 95661

Enjoy an evening at the museum with cultural heritage exhibits, contemporary art gallery as well as a presentation by **Dr. Charles Roberts, Choctaw, Professor emeritus in History and Native American Studies, CSUS**. Dr. Roberts will be speaking on the **Pomo Women's Club**. Founded in 1940 and later disbanded in 1957, it was an important avenue through which Native American women provided social and financial support for their people. Doors open at 6:30 p.m. with coffee and dessert. **Free event.**

### **CONTINUING EXHIBITS**

#### ***Sing Me Your Story-Dance Me Home***

Art & Poetry from Native California

*A traveling exhibit developed by California Exhibition Resources Alliance - Sing Me Your Story, Dance Me Home* exhibition returns to the Maidu Museum through September 2010. This multi-media exhibition is based on work created for the book, *The Dirt Is Red Here*, showcasing California Indian stories, songs and dances in the form of poetry, paintings, baskets, photographs, and sculpture. *Sing Me Your Story, Dance Me Home* exhibition includes more than 40 artworks by 27 contemporary Native California artists and is a celebration of the cultural wealth and artistic creativity of the contemporary California Indian community. Thank you to Placer Arts and Native Cultures Fund for sponsoring this traveling exhibition at the museum.

**Web site:** [www.roseville.ca.us/indianmuseum](http://www.roseville.ca.us/indianmuseum)

**Phone Number:** For museum and program information call (916) 774-5934

# "Tour of pre-Clovis Paisley Oregon Caves and Modoc County sites"

Thursday, June 24, 2010 - Monday, June 28, 2010

**Paisley Cave Tour:** 10 miles North of Paisley, OR

**Friday, June 25@ 1:00 p.m.**

The tour led by Archeologist, Dennis Jenkins can accommodate up to 40 people. There is still room, but please contact Dennis Fenwick at [fenwick\\_lewis@msn.com](mailto:fenwick_lewis@msn.com) or 916-281-7237 to make your reservation.

In addition to the cave visit, one or more of the following sites in Modoc County area will be visited:

- **Summer Lake Wildlife Area:** about **15 miles NE of Paisley** on OR31. It is administered by the Oregon Department of Fish and Wildlife and is one of the best places in Oregon to view migrating waterfowl and other shore and water birds. It consists of a large marsh with associated uplands. An 8.3-mile tour route bisects the area.  
[http://www.dfw.state.or.us/resources/visitors/summer\\_lake\\_wildlife\\_area.asp](http://www.dfw.state.or.us/resources/visitors/summer_lake_wildlife_area.asp)
- **Petrified wood** – South of Fandango Pass Road and North of **Davis Creek, CA.**
- **Warner Mountain/Davis Creek Obsidian:** collect obsidian needles, rainbow and Pink Lady obsidian at sites Northeast of **Davis Creek, CA.**

**Saturday, June 25, / Sunday, June 26**

- **Modoc County Historical Museum: Alturas, CA.** Three cultures lived in Modoc: Pit River, Modoc and Paiute. Artifacts on display depict the native life-styles in Southern Oregon, Eastern Nevada and Northern California dating from the 19<sup>th</sup> century to over 8000 years ago.
- **Modoc National Wildlife Refuge:** fed by snowmelt from the Warner Mountains, the Pit River creates an oasis for wildlife in the high desert of northeaster California on US 395, 5 miles South of **Alturas, CA.**
- **Lava Beds National Monument with Lava Tubes/Caves and Petroglyphs:**
  - **Native American rock art sites:** Most of the pictographs are painted in black, produced from a charcoal base mixed with animal fat, and white, made with a clay base. Occasionally **red** was used, likely made from substances obtained through trade with Paiute Indians to the east. Since scientific dating techniques are possible with carbon-based materials in pigment, some pictographs at Lava Beds have been dated to as many as much as 1500 years ago. However, since Lava Beds remain a sacred landscape for people of Modoc-Klamath decent, it is possible that other images are relatively recent. Sites include: Petroglyph Point – center of a Modoc creation story, Big Painted Cave and Symbol Bridge Trail, and Captain Jack's Stronghold.
  - **Glass Mountain Geological Area/Highlands:** Gray dacite and rhyolitic obsidian flows that cover 4,210 acres and erupted about 950 years ago. Obsidian flows include Glass Mountain, Medicine Lake Glass Flow, Little Glass Mountain, Grasshopper Flat, and Sugar Hill. The largest, Glass Mountain, erupted only 300 years ago. These obsidians were considered prime by native people. Medicine Lake is in the center of the caldera.
- **Tule Lake Relocation Center** (detention camp) near Lava Beds at **Staley, CA.**
- **Lower Klamath National Wildlife Refuge:** off of CA 161 about 10 miles West of **Tulelake.**

## Monday, June 28

- **Fort Rock State Monument: Fort Rock, OR** – 325 foot high crescent-shaped remains of the ancient Fort Rock Volcano. Its steep rock sides are the most striking example of the maars and tuff rings in the young volcanic landscape of the High Lava Plains province. It was formed by a shattering explosion in early Pleistocene time, when rising magma met a shallow lake that covered the Fort Rock and Christmas valleys. In caves cut along the edge of the lake evidence of early human habitation has been found, including the 10,000-year-old woven sandals that are now thought to be the oldest shoes on record.

<http://www.oregongeology.com/sub/learnmore/Placestosee/FortRock.htm>

## Tuesday, June 29

- **Favell Museum:** 125 West Main Street, **Klamath Falls**, open Tuesday-Saturday 10:00a.m. to 5 p.m. The museum is dedicated to the understanding of the history of the west, preservation of Native American artifacts and culture and exhibits notable contemporary western art.

## PAST EVENTS

### “Use of 3D Laser Scanning for Archeological Sites and Artifacts”

Kevin Akin  
Senior Land Surveyor  
California Department of Transportation

On June 11<sup>th</sup> Kevin Akin discussed the use of 3D Laser Scanning for archiving site information and producing site models. He showed the results of scanning of the Rock Shelter archeological site in Santa Barbara for Cal Trans and how the site can be displayed from several perspectives. Kevin Akin is a Land Surveyor working for the California Department of Transportation. His current duties involve the investigation of new surveying technology. Here are some links to laser scanner sites that members may be interested in:

CyArk is a fantastic site where scan data of heritage sites are archived.

<http://archive.cyark.org/>

Historic Scotland also scans heritage sites.

<http://www.historic-scotland.gov.uk/index/heritage/conservation/conservation-initiatives/laserscanning.htm>

An English site that scanned Stonehenge.

<http://www.stonehengelaserscan.org/>

A surveying magazine article about Laser Scanning and Archaeology.

[http://www.gim-international.com/issues/articles/id990-Laser\\_Scanning\\_and\\_Archaeology.html](http://www.gim-international.com/issues/articles/id990-Laser_Scanning_and_Archaeology.html)

Next Engine Scanner as used by Jay Leno.

<http://www.nextengine.com/>

Classes in the Bay Area that teach how to use the Next Engine Scanner.

<http://www.techshop.ws/maintenance.html>

Research on airborne lidar for archaeology.

[http://luftbildarchiv.univie.ac.at/uploads/media/doneus\\_briese\\_155-162.pdf](http://luftbildarchiv.univie.ac.at/uploads/media/doneus_briese_155-162.pdf)

[http://w3.riegl.com/uploads/tx\\_pxriegl/downloads/Doneus\\_ROME\\_01.pdf](http://w3.riegl.com/uploads/tx_pxriegl/downloads/Doneus_ROME_01.pdf)

Having trouble sleeping? Then print these articles out and learn more about the accuracy of stationary laser scanning.

<http://www.uagp.net/images/stories/news/2007/10/PDF/1.pdf>

[http://www.ahmct.ucdavis.edu/images/AHMCT\\_LidarFinalReport.pdf](http://www.ahmct.ucdavis.edu/images/AHMCT_LidarFinalReport.pdf)

[http://www.rics.org/site/download\\_feed.aspx?fileID=6758&fileExtension=PDF](http://www.rics.org/site/download_feed.aspx?fileID=6758&fileExtension=PDF)

<http://www.isprs.org/proceedings/XXXVII/cong>

[ress/5\\_pdf/59.pdf](#)

Laser scanning equipment vendors.

[http://hds.leica-geosystems.com/en/Leica-ScanStation-C10\\_79411.htm](http://hds.leica-geosystems.com/en/Leica-ScanStation-C10_79411.htm)

<http://www.trimble.com/trimblegx.shtml>

<http://www.riegl.com/>

<http://www.optech.ca/news.htm>

Using laser scanning to inspect manufactured parts.

<http://www.shapegrabber.com/>

About airborne lidar.

<http://www.csc.noaa.gov/products/sccoasts/html/tutlid.htm>

3D Laser Scanning Forum

<http://www.laserscanning.org.uk/forum/>

PTgui is software that will allow the creation of panoramas from digital photos.

<http://www.ptgui.com/>

Nodal Ninja is a bracket that holds a camera while taking a series of photos for use in PTgui.

<http://www.nodalninja.com/>

The David Laser scanner is a very low cost 3D scanner. It is basically a starter kit for constructing your own scanner. I don't know how well it works or how hard it is to operate.

<http://www.david-laserscanner.com/>

Really feel up to a challenge? Build your own laser scanner from scratch.

[http://www.sjbaker.org/wiki/index.php?title=ASimple\\_3D\\_Scanner](http://www.sjbaker.org/wiki/index.php?title=ASimple_3D_Scanner)

## SCHOLARSHIPS

SAS is very pleased to award five scholarships to Anthropology/Archaeology students attending four different schools: American River College, Sacramento City College, Sonoma State University, and University of California Berkeley. This year we had the largest number of applicants ever, seven and had to expand our funds through member donations to provide funding to these five very worthy recipients. Stay tuned for their presentations in early 2011.

### Allison Barden

Allison Barden, a junior at UC Berkeley will be attending an archaeological field school in Guam this summer. In the field school she will be learning excavation techniques, field methods, documentation and data analysis. The site is located at Litekyan, a Spanish-era native Chamorro village near Ritidian Point on the north coast of the small Pacific island. In 2008 and 2009, artifact assemblages included lithics, faunal remains, worked bone and shell, traded goods, and other categories of material. The object of this project is to uncover information regarding the function of native latte structures, household organization, and the pre- and post-

contact economic system of this area. Allison is very interested in the archaeology of Oceania and this field school will give her valuable skills and experience. Over the past year she has been working as an intern in several archaeology labs at U. C. Berkeley analyzing artifacts. Most recently, she has been working with Geographic Information System (ARC GIS) and has completed work on a map of artifacts and paleoethnobotanical remains at a prehistoric site in Honduras.

### Brandon Li

Brandon Li, a junior at UC Berkeley, will be attending an archaeological field school in Japan this summer. Professor Junko Habu will be leading an excavation for the Goshizawa Matsumori Project of the Sannai Maruyama Site in Japan. The site is a pit-dwelling with a central hearth and several storage pits dating back to Middle Jomon Period, near 5000 years B.P. The field school will begin with an intensive week of initial instruction on the historical background of the site and preparation for the field study. Following this, Brandon will

participate in the excavation performing pot shard cataloguing and analysis, dry screening and floatation of soil samples soil sample material analysis and sorting and total station setup and surveying. Brandon has been an undergraduate apprentice in Professor Junko Habu's East Asian Archaeology Lab. He analyzed material and artifacts from the Goshizawa Matsumori Project of the Sannai Maruyama Site in Japan. Brandon is interested in continuing his studies of archaeology and obtaining a Ph.D. in the field so that he can teach and conduct research. East Asia archaeology is his particular interest.

### **Gary Alexander**

Gary Alexander, a freshman at American River College, attended a week long flint knapping workshop through the Center for American Archaeology on May 31 to June 4, 2010. Here he acquired hands-on instruction in the areas of heat treatment, platform preparation, and the more technical aspects of percussion flaking techniques. Prior to the class his stone tool fabrication methods have been self taught by trial and error. He has made a number of replica obsidian points, arrows and similar items and has taken exceptional care to reproduce and finely craft the artifacts, faithfully in both material and technique. This workshop provided him the opportunity to see more authentic stone tools being created by experts and to understand the processes used by Native peoples to craft tools in field settings. Gary is interested in a career in Cultural Resource Management. He wants to be able to preserve ancient skills and create accurate reproductions that can be used by students and teachers in an academic environment.

### **Preeta Melelu**

Preeta Malelu, a sophomore at Sacramento City College, will be attending Yucatan Peninsula Field School in January 2011. The object of the school is to study the significance of the Three Hearthstones in Maya Culture in the Yucatan Peninsula today as well as astronomical

connection. The activities include archaeological study of hearthstones found in Coba and Quintan Roo, ethnographic study by conducting interviews with local Mayan population, epigraphic records by visiting Stelas to draw and find references to hearthstones, attend on-site lectures, review printed materials regarding hearthstones and collate data from the study. Preeta is interested in a career as an anthropologist focusing on indigenous people of the Americas. She is a docent at State Indian Museum and is particularly active with Sacred Site issues such as Glen Grove and has familiarized herself with the Native American Graves Protection and Repatriation Act (NAGPRA).

### **Naomi Sher**

Naomi Sher, a graduate student at Sonoma State University, is pursuing a M.A. degree in Cultural Resources Management at Sonoma State University. Her thesis is "A Geoarchaeological Assessment of the Potential for Buried Archaeological Sites in the Vacaville Area o Solano County, California". This project uses geoarchaeological methods to create a predictive model for buried archaeological sites. Through archival research, focusing on soil data and geological information, as well as direct fieldwork analysis this study will identify the potential for archaeological deposits in landform-sediment assemblages. This study will incorporate radiocarbon dating to bracket the timing of landscape changes and cultural deposits in the study area. The results of the study will be plotted in GIS and incorporated into the new Northwest Information Center (WIC) GIS database where it will be accessible for future academic research, urban planning and development. SAS funding will be used to obtain AMS Radiocarbon Dating.

**Sacramento Archaeological Society, Inc.**

## **Mark Your Calendars**

**June 24-28, 2010, [Tour of pre-Clovis Paisley Oregon Caves and more](#)**

**July 10, 2010, 6:30-8-30, Night out at the Museum, “Pomo Women’s Club “, Dr. Charles Roberts, Choctaw, Professor emeritus in History and Native American Studies, CSUS.**

**July 16, 2010, 7:00 Board Meeting at Peake’s home**

Note: SAS sponsored events are highlighted in blue.



A Non-Profit Corporation  
P.O. Box 163287  
Sacramento, CA 95816-9287