**JUNE PCAS SPEAKER**

*George Kline*

*The Newly Discovered Archaeology of the Chuckwalla Valley in Eastern Riverside County*

Mr. Kline will present an overview and update on the archaeology of the Chuckwalla Valley in eastern Riverside County. In the last six years, tens of thousands of acres have been systematically surveyed in preparation for renewable energy generation projects. These surveys have yielded a plethora of archaeological data, adding another chapter to the book of California prehistory and history.

The Chuckwalla Valley is the locale of several new, large, utility-scale solar generation facilities now in operation, *(Continued on p. 3)*

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**PCAS MEETINGS CALENDAR**

**GENERAL MEETING**

*Free and Open To the Public*

*June 11 - 7:30 pm*

**Speakers:** George Kline

**Topic:** *The Newly Discovered Archaeology of the Chuckwalla Valley in Eastern Riverside County*

**Location:** IRWD Community Room
15500 Sand Canyon Ave., Irvine

*The Irvine Ranch Water District neither supports nor endorses the causes or activities of organizations that use the District’s meeting rooms which are made available for public use.*

**BOARD MEETING**

*All Members Welcome*

*June 18 - 7:00 pm*

**Location:** Old Orange County Courthouse
PCAS Library, Ground Floor
211 W. Santa Ana Blvd., Santa Ana

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**INSIDE THIS ISSUE**

2 May Speaker Notes
2 June Curation Workday
3 2015 Scholarship report
4 Notes Relating to Recent *PCASQ* Articles
5 May Board Meeting Summary
5 In Passing, Pat Hearle
6 Dig This—Exhibits, Lectures, and more
7 PCAS Annual Picnic—Save the Date
7 Speaker Schedule

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**DINNER WITH THE SPEAKER**

Please join this month’s speaker, George Kline, for dinner before the June 11 meeting at 6 pm at Mimi’s Café, 4030 Barranca Parkway, Irvine.

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This is the combined June/July Newsletter. There are no General Meetings in July and August. The August/September Newsletter will announce the September speaker.
**MAY SPEAKER NOTES**

*The First Chicken Burrito in California: A Zooarchaeological Research of Bird Bones from the San Diego Presidio*

Dr. Aharon Sasson presented results of his study of bird and small animal bones from the San Diego Presidio. His field is zooarchaeology, which he defined as the study of animal bones from cultural sites. Such studies may indicate animal interactions with humans, human dietary practices, and cultural rituals. The San Diego Presidio was the first Spanish outpost in California and was set at the division between Alta and Baja California, overlooking San Diego Bay. The first permanent settlement was in 1769. It was rebuilt and fortified in 1775, became the capital of California in 1825, and was abandoned ten years later.

The first archaeological study of the site was performed in 1920 by George Marston and continued until the 1990s after which it was buried by the City of San Diego. Dr. Paul Chace and Mark Roeder studied fish bones from the site and set aside the bird bones which were then passed to Dr. Sasson for study. The bones came from the north and west wing areas of the complex and included those from a residential room and a 15 ft deep midden which spanned a period of 60 years. The area was occupied by soldiers and officers.

Dr. Sasson described the difficulties of recreating the record from field notes and how the mysterious designation of R1NM was finally interpreted as “Room 1, North Mound.” Bones in the collection included 16 non-avian species, identified as livestock species, such as pigs, sheep, and cattle, and varieties of rodents, cats, and dogs. There were 21 avian species totaling 900 bones and including domestic varieties of turkeys, geese, and chickens. The presence of raptor bones was perhaps the result of hunting them for sport or protection of the chickens. Raptor bones may also point to the presence of Native Americans because the Kumeyaay are known to have used them in funerary ceremonies. The study also identified native birds such as the sandhill crane and American crow which are no longer found in the area.

Chicken bones were seen in much higher numbers than those found in other California presidios and missions. Two breeds were identified, and the male to female ratio was estimated by two different methods to be between 1:5 and 1:12. This agrees with a report in the historical record by Father Fermin Francisco de Lasuen who described a “chicken run with 2 roosters and 18 hens.” Egg-laying hens could be identified by the presence of calcium deposits—known as medullary bone—in the cavities of long bones. These deposits are re-absorbed two weeks after the last egg is laid. Dr. Sasson studied 112 long bones, 40 were sawed through, and 53 percent of these contained medullary bone. He suggests there was a systematic culling of post-egg-laying hens. Of 106 specimens 23 percent were identified as being 3–6 months old, and 12 percent were under 3 months. While the sex of these could not be determined, they were possibly young males which were not needed to maintain the correct rooster-hen ratio. All body parts were evenly represented in the sample except for the heads and feet, suggesting the chickens were slaughtered in a different location and only the edible portion was brought to the area that was excavated.

Dr. Sasson questions why chickens were found in such high numbers in San Diego but do not appear in the more northerly settlements. Were they considered less important than other livestock, or were they there but not in areas that have been excavated?

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**JUNE CURATION WORKDAY**

When: June 13, 2015, 1 pm

Where: Red Car Building

Everyone is welcome. No experience necessary! Please contact Mark Roeder (714-299-4150, curator@pcas.org) or Scott Findlay (714-342-2534, fieldtrips@pcas.org) for directions, and let us know you will be coming.
June Speaker (continued from p. 1)

under construction, or going through the NEPA process. This huge area between the Salton Trough/Coachella Valley to the west and the Colorado River basin to the east has now added a wealth of information to the archaeological record of southern California. Before federal and state mandaties were enacted to promote solar energy, very little was known about this area from a very limited list of projects. New information has significantly filled in the previous blank slate, showing significant historic use and a long prehistoric human occupation back to the Paleoindian period over 10,000 years ago.

George Kline was born and raised in the suburban Los Angeles area. After graduating from Bell High School, he enlisted in the Navy and served at sea in the western Pacific and Indian Oceans during the Viet Nam War. After his military service, George worked in the shipbuilding industry as a marine electrician. During that career and while raising a family, he attended community college with a fascination for science but with no particular focus, concentrating on general education that could be applied to any major. After taking a course in archaeology, he was hooked. During a life-changing period and series of events, George took on seasonal work as an archaeological technician for the US Forest Service in Modoc County in northern California. During his five years as a technician, he realized he needed to finish his college degree in order to move up in the profession that had now repeatedly captured his imagination. He and his new wife, Victoria, packed up all their belongings and relocated to San Diego. He worked again as a marine electrician while going back to school—this time with a focus on anthropology. After San Diego Mesa College, he transferred to San Diego State University (SDSU) to complete his BA in 2005. He earned his Master’s in Anthropology with a focus on archaeology in 2008 while employed as a workforce anthropologist for General Dynamics NASSCO. After receiving his MA, he retired early from General Dynamics and went to work for the San Bernardino National Forest as an archaeologist. In 2010 he accepted a position with the Bureau of Land Management (BLM) at the Palm Springs-South Coast Field Office where he has now found a home. Currently living in Cathedral City, he manages the archaeology for 1.4 million acres of public land in five counties. Area projects have included several utility-scale solar power generation facilities and electrical transmission lines. He has assisted with fuels reduction, fire suppression, and rehabilitation; minerals and mining; and law enforcement in ARPA violations analyses. He is also actively involved with site protection and preservation, working with volunteers in the California Archaeological Site Stewardship program (CASSP).

2015 Scholarship Report

The PCAS Scholarship Committee is pleased to announce the following undergraduate scholarship awards for 2015:

Shelley Jane Trout is a student at the University of California, Berkeley, expecting to graduate in May 2016. She is a native of Wales, and an early interest in the stories of Viking attacks has led to a current interest in Scandinavian archaeology. She is working on her major in anthropology with a minor in Scandinavian. This summer she will be joining Dr. Margaret Conkey on a project to search for Paleolithic tools in the south of France. She plans to do her graduate research at UCLA and would like to work with Dr. Jesse Byock on the Mosfell Archaeological Project in Iceland. Shelley will receive the Gloria Bogdan Memorial Scholarship.

Jermaine Vanzie is a student at the University of California, San Diego, planning to graduate in 2016. As a student, he attended coastal museum summer camps and archaeology camps, and this early interest in archaeology was reinforced by service in the military when he was posted to such countries as Iraq, Japan, Germany, and South Korea. He took advantage of these postings to study the people and cultural history of the local areas. This summer he will attend a field school in Delphi, Greece, with Dr. Thomas Levy, and later will attend military scuba licensing school, which will benefit him in his preferred field of maritime archaeology. Jermaine will receive the Myrtle Soderberg Memorial Scholarship.

The PCAS Scholarship and Grant program is fully supported by donations. The Myrtle Soderberg Memorial Scholarship is named for a founding member and funded by our monthly donation-award table, coordinated by Joe Hodulik, and by other donations from our members. The Gloria Bogdan Memorial Scholarship is named for a life member and is fully funded by her husband, Tom. Our society is extremely fortunate to have members so dedicated to furthering the archaeological discipline.
“Deep Creek” Smoking Pipes

Daniel McCarthy’s (2014) descriptive treatment of two smoking pipes, similar to one another in general outline, occasioned formal recognition of a new pipe genre, the “Deep Creek” type. One of the two pipes, a low-temperature fired ceramic specimen (Figure 1), was recovered at CA-SBR-467 in the San Bernardino Mountains. The other (Figure 2), found in northeastern San Diego County, was unavailable for direct observation, but working from photographs, McCarthy surmised that its material was probably fired clay rather than steatite. Pre-2014 published archaeological literature seems to lack candidates for Deep Creek status.

However, the artifact illustrated in Figure 3 is likely an example of the type. This specimen was recently recognized among varied kinds of artifacts pictured in an old newspaper article (Los Angeles Sunday Times [LAST] 24 November 1908:12) about Southwest Museum Curator Dr. Frank M. Palmer negotiating with relic hunter De Moss Bowers, son of nineteenth century California archaeologist Stephen Bowers (see Benson 1997), for the museum’s purchase of artifacts collected from three islands—San Clemente, San Nicolas, and San Miguel.

If the sale actually occurred, the object seen in Figure 3 could presently reside with the Autry National Center, Los Angeles, hopefully accessible for measurement, material identification, and determination of whether a channel runs from one end into what appears to be a pipe bowl. The 1908 newspaper image clearly reveals an opening at one end of the artifact. Configuration of the device sitting above the middle of the specimen compares favorably with the shapes of those bowls atop the two pipes whose study prompted McCarthy to propose the Deep Creek taxon.

One might wonder whether the three artifacts’ elevated parts were designed to help project whale imagery. Consider that smoking pipes with purposeful cetacean referent are well documented for southern California (e.g., Snyder and Koerper 2014:76–79).

Seine Net Fishing

The latest PCAS Quarterly carried an article with content relating to fishnets and their sinkers (Koerper and Cramer 2015). Subsequent to its publication, Dr. Paul Chace alerted the article’s senior author to Tipai ethnographic notes bearing on the subject of seine nets. Deemed both useful and interesting, those data are reproduced here:

Aboriginally, swimming fish were shot with arrows in shallow coastal waters or tidal inlets, but the commoner way was by netting. A twoman net was used; this was made in the same fashion and technique as the rabbit net or carrying net. This net was about 20 to 30 feet long, and three to four feet high; the bottoms at each distal end were tied to the near ankle of each man of the two man team; the upper distal ends were held in the hands at the height of the forearm when held parallel to the surface of the water.
MAY BOARD MEETING SUMMARY

Submitted by Brian Steffensen

President Megan Galway called the meeting to order at 7:00 p.m. at the Old Courthouse in Santa Ana, California. Board members present: Rene Brace, Stephen Dwyer, Scott Findlay, Jane Gothold, Hank Koerper, Steve O’Neil, and Brian Steffensen. Members present: Bob Brace and Gail Cochlin.

The Board approved the April 2015 minutes with corrections and the May Treasurer’s report with expenditures.

Old Business

Scott Findlay is finalizing a list of volunteers for our June 15 Archaeology Day at Garfield Elementary.

New Business

After discussion, the Board voted unanimously to award the Gloria Bogdan Memorial Scholarship to Shelly Trout (UC Berkeley) and the Myrtle Soderberg Memorial Scholarship to Jermaine Vanzie (UC San Diego). Both awards are $1,000. PCAS will reject a Columbia University offer to provide PCAS Quarterly issues online unless security prevents the printing of the articles. PCAS has agreed to accept three boxes of CA-ORA-193 materials that were separated from the collection that PCAS now curates. We thank Dr. Keith Dixon for his assistance in this matter.

Joe Hodulik’s Donation-Award table brought in $92 for the Scholarship fund at the May meeting! PCAS Quarterly 52(3&4), honoring Dr. W. Michael Mathes with Guest Editors Matthew Boxt and Brian Dillon, will be published before the end of the year. Gail Cochlin has completed the listing of our library books in the online program. Native American Liaison Steve O’Neil has published The Acjachemen (Juaneno) of Coastal Southern California with the Malki-Ballena Press.

The meeting was adjourned at 8 pm.

Volunteers Needed

Volunteers are needed for two outreach events—no experience necessary!

June 15 - Archaeology Day at Garfield Elementary
July 19 - From Dinosaurs to People

Contact Scott Findlay (vicepresident@pcas.org or 714-342-2534) for more information or to volunteer.

In Passing - Pat Hearle (1931–2015)

With sadness we announce the recent passing of Pat Hearle. Pat was a past-president of PCAS and a life member. She joined PCAS in 1965 and was involved in many activities including field trips, cura-
tion, and outreach. We extend our sympathy to her family and friends.
DIG THIS...

Exhibits


Lectures

Deir el-Medina Study Day, with Dr. Cédric Gobeil, Dr. Anne-Claire Salmas, and Dr. Eric Wells, June 6, 10 am–3:30 pm, fee—$25, members and students $15; Chicago House, Luxor—News from the Field, by Dr. J. Brett McClain (University of Chicago), July 11, 1:30 pm, free; Death in the Muq Precinct: Burial and Execution in the Second Intermediate Period, by Dr. Betsy Bryan (Johns Hopkins University), August 8, 1:30 pm, free. All ARCE lectures. Bowers Museum. Information: www.bowers.org or 714-567-3677.

Nostalgia Night, a San Diego Rock Art Association event with 8 minute presentation of older, pre-digital rock art slides, videos, etc. Kumeyaay-Ipai Interpretive Center, Poway, June 7. Potluck 4 pm; presentations 5 pm. Fee: Donation $5; members free. Information: www.sandiegoarchaeology.org.


Lectures (continued)


Classes, Meetings, and Events

The San Diego Archaeological Center Annual BBQ will be held June 6, 11 am–4 pm. Special workshop, How to Get Hired in Archaeology, 10–11 am. Fee for food: $10 adults; $5 children. Information and tickets: www.sandiegoarchaeology.org.


The Native American Arts Festival of the Idyllwild Summer Program will be held June 28–July 4; performances and lectures will be open to the public. Fee. Information: 951-659-2171. Online catalog and registration for workshops: www.idyllwildarts.org (click on summer programs).

From Dinosaurs to People: Reliving Orange County’s Past, organized by the Cooper Center, will have displays, hands-on activities, and talks. Heritage Museum of Orange County, 101 West Harvard St., Santa Ana, July 19, 11am–4 pm. Free. Information: www.jdcoopercenter.org.

The 2015 Pecos Conference will be held near Mancos, Colorado, August 6–9. Fee: $45; students $35. Information: www.pecosconference.com.

Visit www.pcas.org for all the latest news.

Editor’s Note: Please confirm time and place of listing prior to the event. Submit items for Dig This to newsletter@pcas.org.
PCAS CODE OF ETHICS

The Pacific Coast Archaeological Society (PCAS) is a nonprofit group of professional and avocational people dedicated to proper management of our cultural resources, public education, and the protection and preservation of archaeological materials and collections.

The following principles have been adopted by the PCAS:

1. Professional methods and forms will be used on all archaeological field surveys, excavations, and laboratory sessions.
2. A complete record of field and laboratory work will be filed with the PCAS Curator and stored at a facility approved by the Society’s Board of Directors.
3. No archaeological materials will be removed without proper permits, landowner permission, and a field research design.
4. Unless otherwise legally stipulated before activity commences, all materials collected will be deposited for further research with the Curator at a facility approved by the Society's Board of Directors.
5. All generated reports will be the property of the Society and distributed as deemed appropriate.
6. All Society field activities will be performed only under the direction of a qualified field archaeologist (Principal Investigator) and the supervision of field or site directors.
7. The above principles will be observed on both Society approved projects and projects performed under the direction of an authorized institution or organization.
8. The Society and its members will strive to educate the public of the importance and proper management of our non-renewable cultural resources and to discourage the collection and commercial exploitation of archaeological materials.
9. PCAS members shall not benefit from the acquisition, purchase, sale, or trade of archaeological artifacts, materials, or specimens.
10. All members shall adhere to City, County, State, and Federal antiquities laws.

PCAS ANNUAL PICNIC

Save the Date!

July 9, 2015

The PCAS Annual Picnic will be Thursday, July 9, 6 pm, at Irvine Regional Park. Hamburgers will be provided, and everyone is asked to bring a side dish to share. A flyer will be sent out in late June with directions and additional information.

PCAS SPEAKER CALENDAR

No lecture meetings in July and August

September 10, 2015
Dr. Jerry D. Moore
The Prehistory of Home

October 8, 2015
Dr. Michael A. Glassow
Prehistory of the Northern Channel Islands: Recent Insights
# 2015 PCAS Board Members and Committee Contacts

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*PCAS Board Member

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**PACIFIC COAST ARCHAEOLOGICAL SOCIETY**

2015 Calendar Year Membership and Subscription Form

Name(s): __________________________________________________________

Address: __________________________________________________________

City: ___________________________  State: _________  Zip Code __________

Phone: __________________________  Email: __________________________

Newsletters will be sent by email unless a mailed copy is requested.

I have read and agree to abide by the PCAS Code of Ethics __________________________________________________________

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www.pcas.org

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