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PCAS NEWSLETTER

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APRIL PCAS SPEAKER

Stephen O'Neil

The Chiefs Saw What Was Happening: A Planned Acjachemen Uprising Against Mission San Juan Capistrano, AD 1778

In late 1776 Mission San Juan Capistrano was established in the midst of Acjachemen tribal territory along the southern coast of California through the efforts of the Franciscan religious order and the Spanish army. A military report describes a planned uprising of the Acjachemen against the mission in



Stephen O'Neil.

spring 1778. Interrogation of insurrection leaders detailed the Acjachemen's cultural motivations for warfare and the consensus building process among clans required for such a major group activity. The Acjachemen's expression of motivations provides their own analysis of Spanish aggression toward them. Information in the report on villages and chiefs, analyzed in light of demographic

(Continued on p. 3)

DINNER WITH THE SPEAKER

Please join this month's speaker, Stephen O'Neil, for dinner before the April 13 meeting at 6 pm, Mimi's Café, 4030 Barranca Parkway, Irvine.

PCAS MEETINGS CALENDAR

GENERAL MEETING

Free and Open To the Public

April 13 - 7:30 pm

Speaker: Stephen O'Neil

Topic: *The Chiefs Saw What Was Happening:
A Planned Acjachemen Uprising,
Mission San Juan Capistrano, AD 1778*

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

April 15 - 12 noon

Location: PCAS Curation Facility

Contact Scott Findlay for directions:
714-342-2534 or fieldtrips@pcas.org.

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**PCAS Scholarship applications are
due by April 30. See www.pcas.org.**

MARCH SPEAKER NOTES

At-Risk World Heritage and Digital Humanities: The UC Office of the President Catalyst Grant

By Gail Cochlin

Dr. Thomas E. Levy's lecture entitled "At-Risk World Heritage and Digital Humanities: The UC Office of the President Catalyst Grant" began with his explanation that cyber-archaeology is a marriage of archaeology, computer science, engineering, and the natural sciences. He introduced and dedicated this lecture to Norma Kershaw, who endowed his Chair in Archaeology of Ancient Israel and Neighboring Lands at the University of California, San Diego.

In 1999 he employed digital technology in the field on an excavation he led in Jordan. (One of his students from that dig was also in attendance.) Use of digital technology, such as tablets and GPS rather than paper forms and tape measures, proved quicker, more accurate, and created richer data. The instability of the political climate in the Middle East at that time also spurred on the use of digital technology—the team was concerned about how long they would be allowed to stay in the area and whether they would ever be allowed to return. The ability to concentrate on recording data that could be digitally transmitted for later analysis was therefore invaluable.

With the advances in cyber technology, information recorded at world heritage sites can be preserved, and data can be shared in ways previously unavailable. Using cyber technology, Dr. Levy found a previously unknown room in a Mycenaean tomb in Kastrouli that had been looted numerous times. (He commented that the looters never found the best artifacts.) The use of cyber technology to find a scarab of Sheshonq in south Jordan helped to correlate the archeological record with the biblical record. In response to a question regarding the use of drones versus balloons, he commented that balloons can stay up "all day long" whereas drones "have a limited battery life and fall down." He also commented that Lidar (Light Detection and Ranging) scanning would require a very big (and expensive) drone.

At the Qualcomm Research Institute, which is partially funded by the \$1.07 million UC President's Research Catalyst Award, students and researchers continue to advance technologies that



Dr. Thomas Levy and PCAS Programs Co-Chair Joe Hodulik at the March meeting.

allow archeologists to acquire, curate, analyze, and disseminate information. This includes the use of 3-D virtual reality programs. At present the development of high speed fiber optics is being used to share huge amounts of data between the University of California campuses at San Diego, Los Angeles, Merced, and Berkeley. There are plans to expand this program to share large datasets with numerous other institutions in California.

We thank Dr. Levy for his overview of past and current uses of cyber technology in the field of archeology and an exciting glimpse into future advances.

Find us on 

www.facebook.com/pacificcoastarchaeologicalsoc/?ref=aymt_homepage_panel

APRIL CURATION WORKDAY

When: April 15, 2017, 1 pm

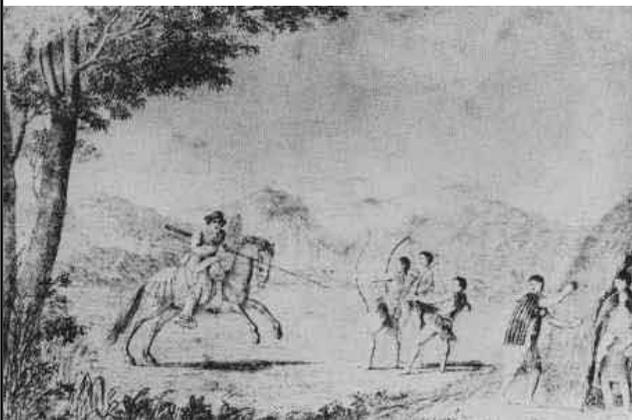
Where: Red Car Building

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 to let us know you will be coming

April Speaker (continued from p. 1)

data from the mission registers, provides further suggestions of Acjachemen response to the Euro-Christian attack on the traditional culture, including both active defense and withdrawal.

Stephen O’Neil has over 30 years of experience as a cultural anthropologist in California. He has researched and written on ethnography, archaeology, and history, concentrating on the ethnohistory of southern California tribal peoples. He received his MA in cultural anthropology at California State University, Fullerton. He has expertise in the use of mission records for the study of population and social networks and is familiar with ethnobotany and rock art. Mr. O’Neil also has archaeological experience, mostly on Native American prehistoric sites, but also with Spanish, Mexican and American period adobes. He has published in the *Journal of California and Great Basin Anthropology*, the *Pacific Coast Archaeological Society Quarterly*, *News from Native California*, and the *Society for California Archaeology Newsletter* on topics ranging from village place names to cosmology and medicinal plants. He grew up on the Orange County coast and now lives in Laguna Canyon. O’Neil works as the Cultural Resources Manager for UltraSystems Environmental in Irvine, California.



Ohlone under attack by Spanish soldiers.



Ohlone labor, San Francisco Presidio.

MARCH BOARD MEETING SUMMARY

President **Sherri Gust** called the March 18 meeting to order at 12:10 pm at the Red Car Building, Santa Ana. PCAS Board Members present: **Bob Brace, Gail Cochlin, Steve Dwyer, Megan Galway, Joe Hodulik** (via speaker phone), **Hank Koerper, Kathleen Shada, and Brian Steffensen**. PCAS members present: **Rene Brace, Scott Findlay, and Jane Gothold** (via speaker phone).

The February minutes were approved with correction, and the Treasurer’s report was approved with expenditures.

Megan Galway will order PCAS T-shirts after considering interest to determine the number to order. The March meeting was well attended even with the conflict with the SCA Meeting.

Bob and Rene Brace, Megan Galway, and Brian Steffensen manned the *PCAS Quarterly* and information table at the Society for California Archaeology at Tenaya Lodge, Fish Camp, March 9–12. *Quarterly* issues were sold, and submission of articles for the *PCAS Quarterly* encouraged. Megan Galway participated in an SCA meeting to discuss archaeology outreach to the public.

Joe Hodulik received \$70 in donations for the Scholarship fund in March! The next field trip will be by April 21–24 to the Eagle Mountain area west of Desert Center. The group plans to visit petroglyph sites. **Steve Dwyer** is investigating a trip to Vandenberg Air Force base for fall 2017 to visit Swordfish Cave and other rock art and habitation sites on the base. There was Board interest in a field trip to the UC San Diego’s Qualcomm Institute, which was discussed in Dr. Levy’s March lecture on cyber-archaeology.

PCAS *Quarterly*, Volume 53, Number 1, has been printed and delivered to members and subscribers. **Hank Koerper** reported he is working on the next *Quarterly* which may be a double issue. Librarian **Jane Gothold** stated she has been contacted by an Orange County resident who may have inadvertently collected Northwestern artifacts. She will report back to the Board.

Speakers have been scheduled through 2017 with the exception of October and November.

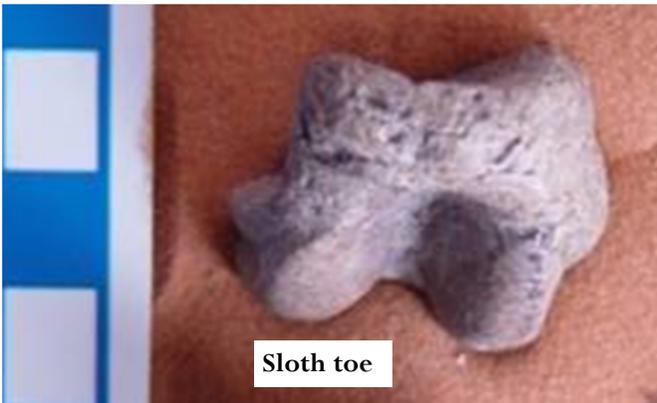
The meeting was adjourned at 12:55 pm.

NEOPHYTE MIDDENS OF THE CENTRAL COAST WITH FOSSILS

Sherri Gust

Two development projects, both in northern Chumash neophyte middens, included single fossil bones. The collection from Mission Vieja de La Purisima (MVLV) was from utility trenching at University Park, and the collection from Mission San Luis Obispo (MSLO) was from data recovery units for the Copelands Project. Both projects were conducted by Applied Earthworks, Inc. The author analyzed the faunas from both projects.

The MVLV fossil was the first phalanx of a Shasta ground sloth, *Nothrotheriops shastensis*. No modern animals have a similar shape or size.



The MSLO fossil was the first phalanx (toe) of a saber-toothed cat, *Smilodon fatalis*. The bone was complete and was carefully checked against fossil cougar and saber-toothed cat. The same bone of cougar is substantially smaller and differs in morphology. The bone was an excellent match to specimens from the La Brea Tar Pits.

Both identifications were independently confirmed by Christopher Shaw, then collections manager of the George C. Page Museum of La Brea Discoveries.

California Native Americans valued rocks as power objects. Rocks shaped like animal parts, in particular, were considered to bring good fortune.

All live or power stones required special treatment. They had to be kept hidden away from dwellings, visited periodically to be sprinkled with acorn meal and prayed to for success. Neglect of the stone was considered dangerous and might result in harm.

The remainder of the MVLV fauna consisted of more than 1,500 identifiable food bones. This neophyte village predates 1812 when the mission was destroyed by earthquake and moved to a new location. Mission-provided cattle with small amounts of sheep and chicken totaled only 8 percent.

Native species included deer, rabbit, duck, quail, curlew, rockfish, mackerel, cabezon, barracuda, senorita, croaker, yellowtail, bonito, lingcod, and surfperch. Small fishes included sardines, herrings, anchovies, and midshipmen (recovered by screening through 1/16 inch mesh and identified by Ken Gobalet). These small fishes totaled 85 percent of the collection while the larger fishes totaled 6 percent. The small fishes would have been collected in nets while many of the larger fish would have required use of tomols and fishhooks.

By contrast, the MSLO collection consisted of slightly more than 1,000 identifiable food bones. Mission-provided cattle, sheep, goat, and pig were about 51 percent of the collection.

Native species included deer, sea otter, birds, rockfish, opaleye, cabezon, queenfish, shovelnose guitarfish, and midshipmen (also screened through 1/16 inch mesh and identified by Mark Roeder). Midshipmen were 10 percent of the collection. These small, nocturnal fish usually live in deep waters, but move into shallow waters to breed. During the breeding period, they are bioluminescent and thus would have been easy to locate and net.

In both cases Native Americans at missions continued to utilize traditional food sources while accepting foods from the padres. This seems to have been a phased process concurrent with the development of stable mission food sources, and the occurrence of Native foods at all missions would appear to indicate continuing food traditions.

References

- Hamilton, M. Colleen and Kholood Abdo-Hintzman
2004 *A Glimpse into the Mission de La Purisima University Park Electric Utility Project: Archaeological Data Recovery*. Applied EarthWorks. Prepared for the City of Lompoc, California. On file, Central Coastal Information Center
- Nettles, Wendy M.
2006 *The Copelands Project: Neophytes, Shopkeepers, and the Soiled Doves of San Luis Obispo*. Applied EarthWorks. Prepared for the City of Lompoc, California. On file, Central Coastal Information Center.

SOCIETY FOR CALIFORNIA ARCHAEOLOGY ANNUAL MEETING

The Society for California Archaeology (SCA) Annual Meeting was held March 9–12 at Tenaya Lodge, Fish Camp. The weather was cooperative, and the road was open and clear (chains had been required the previous weekend). Although Fish Camp is only a few miles from the south entrance to Yosemite National Park, the road to Yosemite was washed out from winter storms, and it only reopened the week after the conference.

The meeting was well attended with several symposiums running simultaneously. The Friday night silent auction, a major SCA fundraiser, was held in the lodge’s foyer, and PCAS donated two packages of four *PCAS Quarterly* issues each. The Saturday night banquet speaker was Mark Aldenderfer (UC Merced), who spoke on his recent research about cultural and biological adaptations to high elevation environments.

Robert Grenda, a 2017 PCAS grant recipient, presented his paper “Characterizing Muscupiabit (CA–SBR–425) and Its Place in the Broader Serrano Settlement System.” **Nathan Acebo**, a PCAS 2015 grant recipient, received the Charles E. Rozaire Award for Student Research in California Archaeology, and he will present his research at our June meeting.

The PCAS information and sales table sold *Quarterly* issues, received new memberships and renewals, and met with potential authors. **Bob and Rene Brace**, **Megan Galway**, and **Brian Steffensen** manned the table in the vendor room, which was very spacious. We thank the conference organizers and sponsors for a very successful meeting.



PCAS information and *Quarterly* sales table. Seated from left: Bob Brace and Megan Galway. Standing at right: Brian Steffensen.

APRIL FIELD TRIP

When: April 21–24

Where: Eagle Mountain area

Group leaders plan to hike on uneven terrain to petroglyph sites. Distance for longer hikes will be a minimum of 3 miles round trip. You do not need to attend all days. Group leaders plan to dry camp at a nearby location.

For more information or to sign up for this field trip email fieldtrips@pcas.org or contact **Scott Findlay** (714-342-2534) or **Steve Dwyer** (714-969-1911). Please be aware that you will be required to sign a code of ethics and waiver of liability, which acknowledges that some areas we plan to visit have inherent natural dangers. If you are unable to attend a field trip for which you have signed up, please contact Scott or Steve as soon as possible. For contact the day of the field trip, call 714-342-2534.



Eagle Mountain area petroglyphs.

Shop at AmazonSmile
and Amazon will make
a donation to:
**Pacific Coast
Archaeological Society**



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DIG THIS...



Lectures

An Abundance of Riches: Bushman Rock Art, by Anne Stoll, a San Diego Rock Art Association lecture. Kumeyaay-Ipai Interpretive Center, Poway, April 2. Potluck 4 pm; presentations 5 pm. Fee: Donation \$5; members free. Information: www.sandiegorockart.org.

Exploring Farming, Foraging, and Daily Life in the Moche World, by Dana Bardolph (UCSB). A Santa Barbara County Archaeological Society lecture, Santa Barbara Museum of Natural History, Farand Hall, April 3, 7:30 pm. Information: www.sbnature.org/education/918.html or tkennedy@sbnature2.org.

The Royal Residence that Defeated the Hyksos: Deir el-Ballas, by Victoria Jensen (UC Berkeley), an ARCE lecture. Bowers Museum, April 8, 1:30 pm. Fee: \$12; Bowers and ARCE members free. Information: www.bowers.org or 714-567-3677.

Making Good with the Archaeological Past: The Archeology and Untold Stories of Paul Schumacher on the Channel Islands in the 1800s, by Austin Ringelstein (National Park Service). A program of the Ventura Archaeological Society, Chumash Indian Museum, 3290 Lang Ranch Pkwy, Thousand Oaks. Free. Information: www.venturaarchaeology.org.

Life of Charlie Cooke, by Dr. Mary Contini Gordon, based on the speaker's book *Tiq Slo'w, the Making of a Modern Day Chief*. Coachella Valley Archaeological Society, Portola Center, 45480 Portola, Palm Desert, April 20, 6:30 pm. Free. Information: www.cvarch.org.

The Controversy over the Proposed Construction of the Large Astronomical Telescopes on Mauna Kea in Hawaii, by Peter Mills (University of Hawaii, Hilo), a lecture of the AIA, Orange County Chapter. DeNault Auditorium in Grimm Hall, Concordia University, April 23, 2–4 pm. Fee: \$5; students and members free. Information: www.aia-oc.org.

Lectures (continued)

First People—A Revised Chronology for San Diego County, by Dennis R. Gallegos. A lecture of the San Diego County Archaeological Society, April 25, 7:30 pm, Los Peñasquitos. Free. Information: www.sandiegoarchaeologicalsociety.com.

Classes, Meetings, and Events

Tour the Historic Cary Ranch (La Puerta), with Reena Deutsch and Dick Cary. A field trip of the Anza-Borrego Desert Natural History Association, April 2. Fee: \$40; members \$30. Number of participants limited. Reservations and payment: 760-767-3098. Information: www.abdnha.org/calendar1.htm.

31st Annual Desert Symposium and Field Trip. California State University Desert Studies Center, Zzyzx, April 14–15; field trip, April 16–17. Cost varies. Paid reservation due by April 7; on-site registration limited. Information: <http://nsm.fullerton.edu/dsc/desert-studies-center-additional-information>.

San Diego Archaeological Center Annual BBQ will be April 29, 12–4 pm; employment seminar 11 am. Fee: \$10, child \$5. Information and ticket purchase: sandiegoarchaeology.org/events/annual-bbq/.

Websites

Passport in Time (PIT), a program of the US Forest Service, has volunteer openings for its projects: www.passportintime.com.

DStretch, a pictograph enhancement application, is now available for Android phones or tablets allowing use in the field: www.dstretch.com/Apps/index3.html.

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

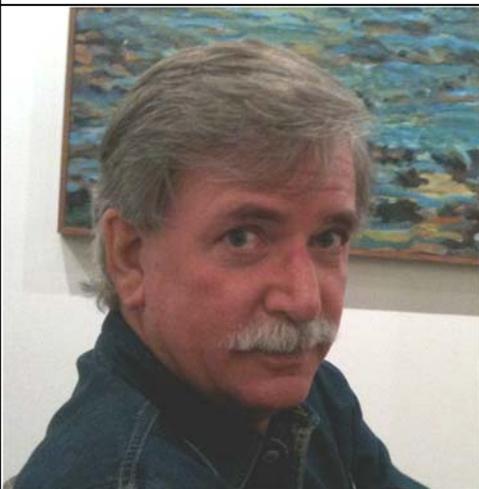
Editor's Note: Please confirm time and place of listing prior to the event. Submit items for Dig This to newsletter@pcas.org.

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.



Stephen O'Neil.

***Come to the April 13 meeting
to learn about the 1778
Acjachemen Uprising Against
Mission San Juan Capistrano.***

PCAS SPEAKER CALENDAR

May 11, 2017

Martin Jespersen and George Kline
*Comparing Two Rock Art Sites in the
Palen-McCoy Wilderness*

June 8, 2017

Nathan Acebo
Re-Assembling the Black Star Canyon Village

September 14, 2017

Dr. James S. Kus

2017 PCAS BOARD MEMBERS AND COMMITTEE CONTACTS

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*PCAS Board Member

PACIFIC COAST ARCHAEOLOGICAL SOCIETY

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

Signature

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- Family Membership - \$50
- Supporting Member* - \$55
- Donor Member* - \$75
- Lifetime Member* - \$1000

* May be individual or family membership

Subscription Only

- Quarterly* - \$40
- Newsletter* - \$20
- Student Associate - \$10 (email Newsletter only)

Scholarship Fund

- Donation \$ _____

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