JUNE PCAS SPEAKER

Dr. E.C. Krupp

*Uplifted and Transported: Encounters at Burro Flats*

The Burro Flats Painted Cave complex, one of the most elaborate and significant prehistoric rock art sites in California, hosts fetching winter-solstice and summer-solstice light-and-shadow events. E.C. Krupp was present for their discovery in 1979/1980, and between then and 2004, he systematically monitored the astronomical performance of the painted rock shelter and other nearby zones on 37 visits and also assessed the impact of the 17 January 1994 Northridge earthquake on the site. Dr. Krupp will illustrate and describe the astronomical dimensions of the site, including details he’s learned.

(Continued on p. 4)

DINNER WITH THE SPEAKER

Please join this month’s speaker, Dr. E.C. Krupp, for dinner before the June 21 meeting, 6 pm, Mimi’s Café, 4030 Barranca Parkway, Irvine.

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

What’s New at Machu Picchu?

Dr. Kus began his presentation discussing Hiram Bingham who “discovered” the iconic Inca citadel, Machu Picchu, in 1911 while looking for the “lost city” of the Incas (preferred Peruvian spelling is now Inka). His book *Lost City of the Incas*, published in 1948, was a bestseller. Machu Picchu was not “lost,” the name appeared on earlier maps and a land sale document. It was obviously known to the local people, one of which led Bingham to the site. Bingham carried out two excavation seasons in 1912 and 1915 and took the artifacts to Yale. In 2011–2012 the artifacts were returned to Peru after an agreement was reached between Yale and the Peruvian government.

Dr. Kus discussed two Machu Picchu features in detail. The Temple of the Sun demonstrates magnificent Inca stonework. The D-shaped structure sits on bedrock and served as an astronomical observatory with windows marking summer and winter solstices. Carvings on the floor’s protruding rock interact with solstice sunlight. A natural cave under the structure probably added significance to the structure.

Visitors to Machu Picchu have increased from 30,000 per year in 1980 to 1.2 million in 2013. The Peruvian government has now limited the number of people who visit and divided each day into two visitation period. Guides may also be required and planned routes through the site must be followed.

New research will give us more information about Machu Picchu. The University of California, Santa Cruz, along with other institutions, is sequencing DNA from burials. Ceramic study has found pottery from north coastal Peru, indicating trade or migration.

There is general agreement that this fifteenth century UNESCO World Heritage Site was a retreat for Inca royals. Dr. Kus’s hypothesis is that while a retreat for the Inca king, it was also a ceremonial site to mark the planting of coca. Coca grew at lower elevations where uña (leishmaniasis) was a threat. The Inca king could safely relax and take part in planting rituals at Machu Picchu.

CURATION WORKDAYS

When: June 23, 2018, 1 pm
August 11, 2018, 1 pm

Where: PCAS Curation Facility
Red Car Building

Everyone is welcome. No experience necessary! Please contact Scott Findlay (714–342–2534, president@pcas.org) for directions.
ARCHAEOLOGY DAY AT GARFIELD ELEMENTARY SCHOOL

Archaeology Day at Garfield Elementary School was held on May 25. We thank Garfield Principal, Mr. Kasey Klappenback, and all the 5th grade teachers for welcoming this event. Archaeology Day would not have been possible without our volunteers: Bob and Rene Brace, Gail Cochlín, Dorothy DeGennaro, Scott Findlay, Irene Foster, Megan Galway, Hank Koerper, Kathleen Shada, and Brian Steffensen. PCAS volunteers present outreach events to promote the understanding and preservation of our cultural heritage.
May Board Meeting Summary

President Scott Findlay called the meeting to order on May 12, 12:10 pm, at the Red Car Building, Santa Ana. Board members present: Bob Brace, Jane Gotthold (by speaker phone), Ardith Haworth (by speaker phone), and Brian Steffensen. PCAS members present: Rene Brace, Steve Dwyer, and Hank Koerper.

The April 2018 minutes were approved, and the Treasurer’s report was accepted.

Dee Schroth has worked on the artifacts from Tad Tadlock’s Riker mounts and has assigned many to specific sites. The disposition of these artifacts has been tabled until O’Neil contacts associated tribal members.

The Board considered the eight scholarship applications. All applicants were extremely well qualified, making the Board decisions difficult. The PCAS Myrtle Soderberg Memorial Scholarship was granted to Victoria Eisenhart, who will be entering her senior year at UC Santa Barbara. Xochitl Lopez, a student at UC Santa Cruz, will receive the PCAS Gloria Bogdan Memorial Scholarship.

The Board approved payment for the renewal of PCAS’s liability insurance. PCAS will take part in the Heritage Museum of Orange County’s “From People to Dinosaurs” event on July 15. The event is free and open to the public. Archaeology Day at Garfield Elementary School will be held May 25, with students arriving at 9 am.

The annual PCAS field trip to San Juan Capistrano and the Blas Aguilar Adobe will be June 16. PCAS members will meet Domingo Belardes at the adobe at 1 pm. Many members plan to take Metrolink to the San Juan Capistrano station. The Board agreed to grant the Blas Aguilar Adobe a complimentary PCAS membership.

Joe Hodulik’s fund raising for the Scholarship Fund made $158 in April and $117 in May! Programs Chair Brian Steffensen reported speakers have been scheduled for the remainder of 2018 with the exception of November.

The meeting was adjourned at 1:10 pm.

April Speaker (continued from p. 1)

in the field since the Santa Susana Field Laboratory, where it’s located, closed. This Chumash/Tongva archaeological site, near Chatsworth, California, is just a ridge away from the stands on which the huge moon-rocket and Space Shuttle engines were test fired. The test stands and the Burro Flats Painted Cave site, in fact, comprise the only place on earth where our modern world heritage in space converges with the prehistoric reach for the sky. The rock art and the test stands make Burro Flats irreplaceably significant in the history of space exploration, in the history of California, in American history, and in the history of the world.

Dr. E.C. Krupp is an astronomer and Director of Griffith Observatory in Los Angeles. He attended Pomona College as an undergraduate majoring in physics/astronomy (BA, 1966). He received his MA (1968) and Ph.D. (1972) in astronomy at UCLA.

Since 1973, Dr. Krupp has been recognized internationally for his work on ancient, prehistoric, and traditional astronomy and on the relationship between astronomy and culture. He is the author and editor of five books on this subject and has personally visited, studied, and photographed more than 2100 ancient, historic, and prehistoric sites throughout the world, most recently in Myanmar. He has also written hundreds of articles for the general reader on astronomy and culture, dozens of research papers, and four children’s books on astronomy. He has received several prominent awards from the American Institute of Physics, the Astronomical Society of the Pacific, Pomona College, and other astronomical and civic organizations.

Dr. Krupp began his Griffith Observatory career as a part-time planetarium lecturer in 1970 and has been its Director and an agent of public astronomy since 1974. He led the Observatory’s $93 million restoration, renovation and expansion, a project he conceived and shepherded through design, fundraising, construction, reactivation, and return to space after a five-year close.
FROM DINOSAURS TO PEOPLE
Heritage Museum of Orange County

PCAS will have a table at this outreach event on July 15, 11 am–4 pm. For additional information, visit http://heritagemuseumoc.org.

APRIL FIELD TRIP
By Stephen Dwyer

PCAS members visited some rock art sites near Ridgecrest over April 27–29. Many bighorn sheep petroglyphs and one probable mountain lion were found. One site had a large number of what are called “sleeping circles,” although their actual purpose is not known. It also had the remains of check dams along a small local drainage. One unique feature on this trip was a large rock ring, maybe 20 feet in diameter, with two rocks on the periphery pointing roughly toward north (see photo below). About a mile away at a different site was a smaller version of the same thing. This ring was 4 feet in diameter, again with rocks on the periphery pointing north.

JUNE FIELD TRIP TO THE BLAS AGUILAR ADOBE

Join PCAS members for the annual field trip to San Juan Capistrano and the Blas Aguilar Adobe on June 16. We will meet Domingo Belardes at the renovated adobe at 1 pm. Please contact Scott Findlay for additional information: fieldtrips@pcas.org or 714-342-2534.
DIG THIS ...

Lectures

*The Nubian Encounter with Greece*, by Dr. Dr. Stanley Burstein (Professor Emeritus, CSULA), Bowers Museum, June 9; *Rewriting a Tired Screenplay: The Identity and Influence of the Hyksos*, by Danielle Candelora (Ph.D. Candidate, UCLA), July 14; *Portraits of Ptolemaic Queens*, by Dr. Branko van Oppen (Allard Pierson Museum), August 11. ARCE lectures, Bowers Museum, 1:30–3:30 pm. Fee: $12; Bowers and ARCE members free. Ticket online or onsite. Information: [www.bowers.org](http://www.bowers.org) or 714–567–3677.


*The Acjachemen—First People of the South Orange County Coast*, by Alfred Cruz and Dr. Patricia Martz. Bowers Museum, June 24, 1:30 pm. Fee: $12; member or paid admission $9. Information: [www.bowers.org](http://www.bowers.org).

Classes, Meetings, and Events

*California Indian Basketweavers Gathering* will be held June 22–24 at the Gold Country Hotel and Casino Conference Center, Oroville. Information: [ciba.org/annual-gathering](http://ciba.org/annual-gathering).

The *2018 Pecos Conference* will be held near Flagstaff, Arizona, August 9–12. Fee: $50; students $40. Information: [www.pecosconference.org](http://www.pecosconference.org).

The *36th Great Basin Anthropological Conference* with theme “Arrow of Time” will be held at the Sheraton Hotel, Salt Lake City, November 7–10. All symposia packages and paper/poster abstracts due August 1. Information and registration: [greatbasinanthropologicalassociation.org](http://greatbasinanthropologicalassociation.org).

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

Visit [www.pcas.org](http://www.pcas.org) for all the latest news.

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2018 Scholarship Report

The PCAS Scholarship Committee is pleased to announce our undergraduate scholarship awards for 2018. As in recent years the Committee and PCAS Board were impressed by the quality and dedication of the applicants, making our choices very difficult.

*Victoria Eisenhart* will be entering her senior year at the University of California, Santa Barbara. The daughter of a former archaeologist, she has continued her love of the discipline and has studied a great deal outside of her academic life. She has volunteered at the Autry National Center, the California Museum of Ancient Art, and the Natural History Museum as well as visiting archaeological sites in Mexico, Slovenia, and Egypt. She says that her exposure to various cultures has reinforced her desire to study North American archaeology. Victoria plans to pursue various SCUBA certifications so that she may study underwater sites off the California coast and is currently working on material from a shell midden on Santa Cruz Island. After her graduation from UCSB, she plans to pursue a doctorate at a major research university in either the United States or United Kingdom. Victoria will receive the PCAS Myrtle Soderberg Memorial Scholarship.

*Xochitl Lopez* is a student at the University of California, Santa Cruz. Her interest in archaeology was fostered by personal reading at her local library, and she enrolled at Fresno City College in 2014 in an archaeological technician certificate program. She credits her mentor there with encouraging her to continue in archaeology and ultimately to forensic anthropology. After attending a field school and working as Student Assistant for the Department of Transportation, Xochitl determined she had little interest in CRM work and focused even more on the field of forensics. This summer she plans to work on the upkeep of a human decomposition facility at Colorado Mesa University while also performing her own research project for her senior thesis. She expects to pursue her MA degree at a school that offers a forensic anthropology program. Xochitl will receive the PCAS Gloria Bogdan Memorial Scholarship.

The PCAS Scholarship and Grant program is fully supported by donations. The PCAS Myrtle Soderberg Memorial Scholarship is named for a founding member and funded by our donation/award table coordinated by Joe Hodulik and by other donations from our members. The PCAS Gloria Bogdan Memorial Scholarship is named for a passed 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.
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

Thursday, July 12, 6 pm

The PCAS Annual Picnic will be Thursday, July 12, 6 pm, at Irvine Regional Park. Hamburgers will be provided, and everyone is asked to bring a side dish to share and their own non-alcoholic drinks. A flyer will be sent out in early July with directions and additional information.

PCAS SPEAKER CALENDAR

No lecture meetings in July and August

**September 13, 2018**
Steven Schwartz
*The Lone Woman of San Nicolas Island: New Discoveries Rewriting Her Story*

**October 18, 2018 (Third Thursday of October)**
Dr. Joan Schneider
*Purple Hummingbird: A Biography of Elizabeth Campbell*

**November 8, 2018**
Dr. René L. Vellanoweth
*Ancient Droughts, Fires, and Floods: Living with the Elements in the Santa Monica Mountains*

**December 13, 2018**
Steve Freers
2018 PCAS Board Members and Committee Contacts

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PACIFIC COAST ARCHAEOLOGICAL SOCIETY

2018 Calendar Year Membership and Subscription Form

Name(s): ____________________________________________________________
Address: _____________________________________________________________
City: __________________________ State: ___________ Zip Code ___________
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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 ____________________________

Signature ____________________________

Membership (Includes Quarterly/Newsletter) Subscription Only Scholarship Fund

- □ Active Member – $45
- □ Family Membership – $50
- □ Supporting Member* – $55
- □ Donor Member* – $75
- □ Lifetime Member* – $1000

* May be individual or family membership

www.pcas.org

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