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PCAS NEWSLETTER

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PACIFIC COAST ARCHAEOLOGICAL SOCIETY

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FEBRUARY PCAS SPEAKER

Dr. Micah Hale

Adaptive Divergence Among Southern California Hunter-Gatherers

Southern California has seen much archaeological research over the last century. Indeed, the last few decades have put southern California in the fore with respect to explaining the origins of cultural complexity—the latter assumed to be represented by elaborate archaeological assemblages. However, the complexity of material culture is not evenly distributed in time or space, but is concentrated in the last 2,500 years and within Gabrielino and Chumash territories. A casual perusal of scholarly publication titles easily proves this to be true and conspicuously leaves outlying regions out of the discourse, save for curious inquiries. If material culture complexity has meaning, the attention deficit paid to, say, archaeology of the San Diego region seems *(Continued on p. 3)*



Dr. Micah Hale.

DINNER WITH THE SPEAKER

Please join this month's speaker, Dr. Micah Hale, and PCAS members for dinner before the February 13th General Meeting. We will meet at 6 pm at Mimi's Café, 4030 Barranca Parkway, Irvine.

PCAS MEETINGS CALENDAR

GENERAL MEETING

Free and Open to the Public

February 13 - 7:30 pm

Speaker: Dr. Micah Hale

Topic: *Adaptive Divergence Among
Southern California Hunter-Gatherers*

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

February 20 - 7:00 pm

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

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**Have you renewed your membership?
Use the membership form in this Newsletter.**

JANUARY SPEAKER NOTES

Stature and Gender Projections from Pictograph Handprint Evidence in Southern California

Submitted by Megan Galway

Steve Freers presented his most recent research on handprint images in rock art. Handprints of various kinds are found in pictograph panels worldwide and no doubt carry many different cultural associations. Mr. Freers has drawn on his previous experience as a physical therapist (specializing in hands) to identify and analyze handprints in generally local rock art. He described three common types of handprints as simple positive impressions, stencil prints where paint is blown around the hand to create a negative image, and stylized prints. The latter were previously believed to have had the design painted onto the hand and then impressed on the rock creating a somewhat skeleton-like image. The development of digital image enhancement with programs such as DStretch (decorrelation stretch) has now shown that the complete hand was painted and then areas of paint were removed. The enhanced images clearly show traces of dermal ridges (the ridges seen in fingerprints) in areas previously thought to be blank. A 1975 catalog of rock art used handprints as map symbols and included CAL-RIV-114 (the Motte Rimrock site) with the comment that the handprints “were not real, but drawn.”

Mr. Freers’ current study area includes sites identified as San Luis Rey, Rancho Bernardo and La Rumorosa. The San Luis Rey style sites are known for chevrons and diamond chains and have been ethnographically identified as girls’ puberty sites. The Rancho Bernardo style, known for maze elements, geographically overlaps the San Luis Rey concentrations but is older. La Rumorosa sites are most common in rock shelters and include digitalized anthropomorphs and use a wider range of colors than the usual red, black, and white.

The current study was an effort to determine the stature and gender of those making the various handprints. The default explanation of “girls’ puberty ceremony” was to be tested to see if it was plausible. Assumptions were that these girls would be in the lower one-third of their growth spurt and would have smaller hands. Pioneer anthropologist Franz Boas noted early puberty among southern Californian Natives and recorded hand measurements. Mr. Freers hoped to experiment with measurements



PCAS Program Co-Chair Brian Steffensen with January speaker, Steve Freers.

and possibly correlate the results with these earlier findings. Formulas previously developed by others were also considered, and these were generally based on hand length and width which were used to extrapolate a proposed stature of the individual. In rock art images the length measurement is generally more reliable than the width, which can vary based on the amount of pressure applied in creating the image. Recent studies also point to a ring/index finger relationship that can suggest the gender of the individual.

In 2009 Mr. Freers studied 37 regional sites and recorded 219 handprints. He believes these prints include a wide range of ages and include both male and female. In the San Luis Rey sites the earlier interpretation of girls’ puberty sites may have been overstated. The Rancho Bernardo images also were most likely made by adult males. He believes earlier studies underestimated stature and that current measurements are more accurate due in part to improved digital capture of the images.

A number of new sites have recently been identified with DStretch imaging and the most recent study includes 47 sites with 482 prints—216 of high quality. Of these 82.3 percent were simple impressions and 17.7 percent were stylized. Ninety percent were of red pigment, 6.71 percent black, and 3.3 percent white. The sites previously identified as girls’ puberty sites were noted to have multiple painting episodes over time and were public and chaotic, consistent with ethnographic accounts of the ceremonies. The Motte Rimrock pictograph site contains both male and female prints, and the Rancho Bernardino sites are adult and male.

(Continued on p. 5)

JANUARY BOARD MEETING SUMMARY

Submitted by Brian Steffensen

President **Megan Galway** called the meeting to order at 7:00 pm at the Old Orange County Courthouse in Santa Ana, California. Board members present: **Bob Brace, Gail Cochlin, Joe Hodulik, Hank Koerper, Steve O'Neil, and Brian Steffensen.** New Board members present: **Rene Brace, Scott Findlay, and Jane Gothold.** Member present: **Kathleen Shada.**

The Board approved the minutes of the November 2013 meeting. The Treasurer's 2013 Financial Statement was approved and will be published in the February Newsletter. An anonymous donation of \$400 was received—\$200 specified for the *PCAS Quarterly* and \$200 for the Scholarship Fund.

Old Business:

The Irvine Ranch Water District is not requiring liability insurance for our meetings.

New Business:

The following were unanimously elected as Board officers: President, **Megan Galway**; Vice President, **Scott Findlay**; Secretary, **Brian Steffensen**; Treasurer, **Rene Brace.** Committee chairs and members will remain the same. The Board unanimously voted to add Treasurer **Rene Brace** as a signatory on our bank accounts. **Bob Brace** will be removed. Additionally, the Board authorized any necessary minute order requested by a bank.

Committee Reports:

The next curation workday will be February 15, and work will begin on the large CA-ORA-291 collection. **Joe Hodulik's** Award-Donation table raised **\$86** at the January meeting for the scholarship fund! Field Trips Chair **Scott Findlay** reported there will be a field trip to the Clark Lake area of Anza-Borrego on February 22-24. *PCAS Quarterly* 49(1&2) was prepared for mailing prior to this Board Meeting. Editor **Hank Koerper** stated the next issue will be guest edited by **Mark Sutton.** **Paul Campbell** has donated copies of his two books. They will be used to promote PCAS membership and the *PCAS Quarterly* at the SCA Meeting in March. Librarian **Jane Gothold** recommended that the PCAS Library list our holdings digitally and place that listing online. Board members will research software programs and cost.

The meeting was adjourned at 8 pm.

February Speaker *(continued from p. 1)*

warranted. However, cast in a different light, the lack of material culture elaboration, especially in coastal San Diego, is very difficult to explain. My research considers the socioeconomic context of southern California, finding that cultural complexity is not always manifest in elaboration of material items. In fact, social institutions that can stabilize a relatively simple economic strategy to the point of resisting change from neighboring intensive economies must have been complex. I discuss theoretical models that make such an explanation possible and shed light on broad trends in human behavior, supported by data from southern California. Overall, my research concludes that social institutions have a more limiting effect on the rate and character of cultural evolution than the rate of technological innovation or other external factors.

Dr. Micah Hale is a California archaeologist originally trained in the Great Basin traditions of UC Davis and CSU Sacramento. Since early 2012, he has been Dudek's cultural resources practice manager and lead archaeologist out of the Encinitas branch. Prior to that, Dr. Hale was a principal at ASM Affiliates where he worked throughout southern California and the Great Basin since 2001. Dr. Hale started his career at UC Davis, (BS, Ph.D.) and CSU Sacramento (MA), obtaining technical expertise as a lithic and groundstone analyst. Over the course of his career, he has served as a principal investigator in the public and private sector for all levels of archaeological investigation and assistant professor at UC Davis. Dr. Hale's academic interest is rooted in cultural evolution and formal economics with most of his analytical work focusing on hunter-gatherer archaeology ranging from northwest Greenland to San Diego. However, he has applied similar theoretical concepts to explain other forms of human behavior ranging from the economics of early twentieth century desert settlement to renewable energy development in the desert southwest.

FEBRUARY CURATION WORKDAY

When: February 15, 2014, 1 pm

Where: Red Car Building

We plan to begin work on the very large CA-ORA-291 collection. ORA-291 was located on Huntington Beach Mesa. Everyone is welcome. 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.

PCAS 2013 FINANCIAL STATEMENT

INCOME

Donations	
Scholarship	\$9,527.25
Other Donations	\$716.08
Interest	\$119.45
Member Dues	\$4,865.00
Quarterly Sales	\$4,254.00
Subscriptions	\$2,494.00
Misc Income	\$62.00
TOTAL INCOME	\$22,037.78

EXPENSES

Curation	\$1,205.04
General Administration	\$149.19
Holiday Dinner	\$125.00
Lecture Program	\$581.90
Newsletter	\$1,331.74
Outreach	\$84.58
Quarterly	\$10,621.00
Scholarship	\$2,700.00
Web Site	\$179.95
Misc Expenses	\$21.99
TOTAL EXPENSES	\$17,000.39

TOTAL (INCOME - EXPENSES) \$5,037.39

ASSETS 12/31/12 12/31/13

Checking, CD & Money		
Market Accounts	\$9,222.27	\$9,494.61
Reserve for Curation	\$10,000.00	\$8,000.00
C14 Fund	\$4,406.04	\$4,406.04
Scholarship Fund	\$4,203.74	\$11,020.99
Outreach Fund	\$409.87	\$325.29
Postage Account	\$33.65	\$66.03
TOTAL ASSETS	\$28,275.57	\$33,312.96

LIABILITIES

Paid Subscriptions	\$5,056.00	\$2,975.00
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PCAS Scholarships Available

Applications are now being accepted for the Myrtle Soderberg Memorial Scholarship and Gloria Bogdan Memorial Scholarship as described in our January Newsletter. Applicants must have achieved junior or senior status by fall 2014, must live in or be attending university in California, and be able to display a proven interest in archaeology. Successful applicants will each receive an award of \$1,000 on enrollment for the fall semester. Complete application guidelines and an application form are available on our website www.pcas.org/scholarships. Deadline for applications is April 30, 2014.

In addition to our undergraduate scholarship program, we have research and presentation grants available to upper division and graduate students. Guidelines for these awards may also be found on our website.

The Myrtle Soderberg Memorial Scholarship and PCAS grants are funded by donations from our members, including funds raised by our monthly donation-award table run by **Joe Hodulik**. The Gloria Bogdan Memorial Scholarship is fully funded by Tom Bogdan in memory of his wife.

Should you know any qualified students who may not have heard of our program, please direct them to our website. Questions may also be directed to scholarship@pcas.org or by telephone to 714-539-6354.

PCAS FIELD TRIP

February 22-24, 2014

Anza-Borrego Desert State Park

We plan to visit several rock art sites within the park. The group will dry camp. Some rock art sites will require cross-country hiking. For those with time constraints, this may be a two-day trip, but it is not recommended as a one-day trip. Please be aware you will be required to sign a code of ethics and waiver of liability.

Contact Scott Findlay (fieldtrips@pcas.org or 714-342-2534) for additional information and to sign up for this field trip.

PCAS QUARTERLY UPDATE

The PCAS Publications Committee is pleased to announce the printing of *PCAS Quarterly* Volume 49, Numbers 1 and 2. The issue has been mailed or will be hand-delivered at the February PCAS meeting. If you do not receive this issue, please check your 2014 membership status by contacting membership@pcas.org or 714-539-6354.

We anticipate publishing Volume 49, Number 3, in the next few months. Dr. Mark Sutton is Guest Editor of this issue which will honor Dr. Philip J. Wilke. The following papers will be presented:

1. Communal Pronghorn Hunting in the Great Basin: What Have We Learned Over the Last 25 Years?
Brooke S. Arkush
2. A Previously Undescribed Great Basin Goose Decoy
Christopher E. Drover and Franklin F. Fenenga
3. Mortuary Remains Recovered in the 1932 Van Bergen Excavation at the Palmer-Redondo Site (CALAN-127), Redondo Beach, Los Angeles County
Henry C. Koerper and Mark Q. Sutton
4. A Unique Early Ceramic Pipe from the San Bernardino Mountains
Daniel F. McCarthy

The PCAS Publications Committee invites the submittal of original contributions dealing with regional history and prehistory. Please see www.pcas.org/InformationforAuthors or contact publications@pcas.org.

PCAS LIBRARY VOLUNTEER OPPORTUNITY

Do you have computer skills and a little time to help the PCAS Library?

In order to help fulfill our part of making the Old Courthouse the only place in Orange County where you can research everything from pre-history to yesterday with the PCAS and OCMS libraries and the OC Archives, we need to get our library holdings on line! Both other groups have already done so; we need to let people know the wealth of resources we have.

If you can help in this project, please contact **Jane Gothold**, PCAS Librarian, at librarian-archivist@pcas.org.

January Speaker Notes (continued from p. 2)

The four predictive equations tested in the study were:

Adel-Malek (1990)—*tends to underestimate stature*
 $S = 34.5 + 5.77HL + 2.7HB \pm 5.1$

Thakur (1987)—*the "Hand Index" predicts gender*
 $(HW \div HL) \times 100$ male > 44 female < 44

Bhatnagar (1984)—*uses hand length only, very field practical*
 $S = 127.97 + (2.06 \times HL)$

Jasuja (2004)—*based on actual controlled handprints*
male R S = $101.991 + (3.767 \times HL) \pm 4.627$ cm
female R S = $133.458 + (1.473 \times HL) \pm 5.127$ cm

References for the above predictive equations:

Abdel-Malek, A.K., A. M. Ahmed, S. A. el-Sharkawi, and N. A. el-Hamid

1990 Prediction of Stature from Hand Measurements.
Forensic Science International 46(3):181-187.

Bhatnagar, D. P., S. P. Thapar, and M. K. Batish
1984 Identification of Personal Height from Somatometry of the Hand in Punjabi Males. *Forensic Science International* 24(2):137-141.

Jasuja, O. P., and G. Singh
2004 Estimation of Stature from Hand and Phalange Length. *JIAFM* 26(3):100-106.

Thakur, S. D., and K. S. Rai
1987 Determination of Stature from Hand Measurements. *Medicine Science and Law* 78:25-28.

Come to the February 13 Meeting!



Dr. Micah Hale will talk on *Adaptive Divergence Among Southern California Hunter-Gatherers*.



DIG THIS...



Exhibits

Paul Outerbridge: New Color Photographs from Mexico and California, 1948-1955 explores the blending of two interwoven societies and the quirkiness of 1950s leisure culture. Old Orange County Courthouse, 3rd Floor Exhibit Gallery, 211 W. Santa Ana Blvd., Santa Ana, through March 23, Monday-Friday, 8 am-4:30 pm. Free. Information: ocparks.com/historic/oldcourt/.

Lectures

The Archaeology of Childbirth, by Cara Ratner (Education Programs Director). San Diego Archaeological Center, February 8, 11 am. Fee: \$5; members free. Information: www.sandiegoarchaeology.org.

Along the Ancient Fjords: A Sampling of Scandinavian Rock Art, by Margaret Berrier. San Diego Rock Art Association, Kumeyaay-Ipai Interpretive Center, 13104 Ipai Waaypuk Trail (formerly Silver Lake Drive), Poway, February 9, potluck at 4 pm, presentation at 6 pm. Information: www.sandiegorockart.org.

The Old Spanish Trail, by Cliff Walker (author, historian). An Old School House Lecture of the Desert Institute, 6760 National Park Dr., Twentynine Palms, February 14, 7 pm. Fee: \$5. Information: www.joshuatree.org.

The Ancient Synagogue and Village at Huqoq, Israel, by Dr. Jodi Magness (University of North Carolina, Chapel Hill), presented by the AIA, Orange County Chapter. DeNault Auditorium in Grimm Hall, Concordia University, February 16, 2 pm. Fee: \$5; members and students free. Information: <http://aia-oc.org>.

Experimental Flintknapping as an Aid to Lithic Analysis, by Jeanne Binning. A Coachella Valley Archaeological Society lecture, Portola Community Center, 45-480 Portola Ave., Palm Desert, February 20, 6:30 pm. Free. Information: www.evarch.org.

Lectures (continued)

The Archaeology of Pluvial Lake Mojave, by Dr. Ed Knell (CSU Fullerton). A Black Rock Lecture of the National Park Service, 9800 Black Rock Canyon, Yucca Valley, February 21, 7 pm. Free. Information: www.joshuatree.org.

The 3rd Millennium BC at Tell Edfu: New Discoveries of the 2012 Season, by Dr. Nadine Moeller (University of Chicago). An ARCE lecture, Bowers Museum, February 22, 1:30 pm. Free. Information: www.bowers.org or 714-567-3677

Wisdom in the Waste: Obsidian Studies and Late Prehistoric Social Systems, by Kathleen Springer. San Diego County Archaeological Society, Los Peñasquitos Ranch House, Canyonside Park Driveway, San Diego, February 25, 7:30 pm. Free. Information: www.sandiegoarchaeologicalsociety.com.

What Ollas Can Tell Us, by Susanne Griset (SWCA Environmental Consultants). Presented by the Colorado Desert Archaeological Society, Anza Borrego Desert State Park Visitor Center, February 27, 2 pm. Free. Information: theabf.org.

Classes, Meetings, and Events

Clark Lake Petroglyphs, led by Chuck Bennett, February 1, 8:30 am, \$35 (members \$25); ***Discovering the Archaeological History of the 'Ehmuu Morteros***, led by Sam Webb, February 16, noon. Programs of the Anza Borrego Foundation. Information: theabf.org.

Village of the Metí and Bancroft House, a field trip of the San Diego Archaeological Center will visit the Kumeyaay village of Metí and the later center of Hubert Howe Bancroft's Helix Farms in Spring Valley. Dr. Tim Gross and Robert Chase will discuss the site. February 22, 10 am-noon. Fee: \$20. Information and registration: cstankowski@sandiegoarchaeology.org.

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

Editor's Note: Please confirm time and place of listing prior to the event.

PCAS CODE OF ETHICS

The Pacific Coast Archaeological Society (PCAS) is a non-profit 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.



Newly elected PCAS Board members (left to right) Scott Findlay, Rene Brace, and Jane Gothold. They were elected at the November 2013 meeting and will serve three-year terms.

PCAS SPEAKER CALENDAR

March 13, 2014

Dr. Todd Braje

The Intersection of Archaeology and Restoration Biology in the Age of the Anthropocene

April 10, 2014

John Rafter

May 8, 2014

Cara Ratner

Ritual Symbols in Rock Art: Cupules and Incised Grooves in the Lower Pecos Canyonlands, Texas

2014 PCAS BOARD MEMBERS AND COMMITTEE CONTACTS

<u>Office</u>	<u>Name</u>	<u>Email</u>	<u>Phone</u>
*President	Megan Galway	president@pcas.org	714-539-6354
*Vice-President	Scott Findlay	vicepresident@pcas.org	714-342-2534
*Secretary	Brian Steffensen	secretary@pcas.org	714-348-9179
*Treasurer	Rene Brace	treasurer@pcas.org	714-544-6282
*Historian/Librarian/Archivist	Jane Gothold	librarian-archivist@pcas.org	562-947-6506
*Native American Liaison	Steve O'Neil	nativeamericanliaison@pcas.org	949-677-2391
*Newsletter Editor	Sherri Gust	newsletter@pcas.org	714-245-0264
*Refreshments	Gail Cochlin	refreshments@pcas.org	714-745-0815
*Voting member	Linda Christison	lindachristison@pcas.org	209-777-2613
Curator	Mark Roeder	curator@pcas.org	714-299-4150
Donation-Awards Coordinator	Joe Hodulik	donation-awards@pcas.org	949-300-1864
Field Trips	Scott Findlay	fieldtrips@pcas.org	714-342-2534
Historian/Librarian/Archivist	Jane Gothold	librarian-archivist@pcas.org	562-947-6506
Membership	Megan Galway	membership@pcas.org	714-539-6354
Programs Co-Chair	Joe Hodulik	programs@pcas.org	949-300-1864
Programs Co-Chair	Brian Steffensen	programs@pcas.org	714-348-9179
Publicist	Joe Hodulik	publicity@pcas.org	949-300-1864
Quarterly Editor	Hank Koerper	publications@pcas.org	714-633-9287
Scholarship	Megan Galway	scholarship@pcas.org	714-539-6354
Website	Rene Brace	info@pcas.org	714-544-6282

*PCAS Board Member

PACIFIC COAST ARCHAEOLOGICAL SOCIETY

2014 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 _____

Signature

Membership (Includes Quarterly/Newsletter)

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

* May be individual or family membership

Subscription Only

- Quarterly* - \$37
- Newsletter* - \$18
- Student Associate - \$10 (email Newsletter only)

Scholarship Fund

- Donation \$ _____

Return form with payment to:

**PCAS Membership
PO Box 10926
Costa Mesa, CA 92627-0926**

www.pcas.org