

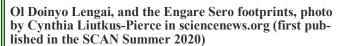
The Santa Cruz Archaeological Society Newsletter— Winter 2022

# Human Footprints in Time

Time for another virtual trip around the world, looking at ancient footprints made by humans and their ancestors. Tracks made across mud, sand and volcanic ash, while often difficult to date accurately, tell us something about our ancestors, and that something can be quite poignant. The tracks bring people alive in ways that artifacts can't. We can imagine children perhaps playing along a lake, people traveling for distances, sometimes stopping and taking a breather while a caregiver sets a toddler down for a moment. Maybe the tracks cross those of animals. The traveler stops briefly, and scans their surroundings to see if the animal is still nearby. Here

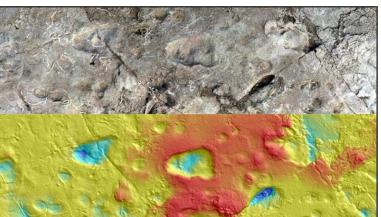
are some recent reports from Africa, the UK, and the Americas.

Engare Sero: The lead researcher Kevin G. Hatala, is an evolutionary biologist of Chatham University in Pittsburgh, Pennsylvania. To read his report, visit https://www.nature.com/articles/s41598-020-64095-0, an open access article published 14 May 2020, and www.sciencenews.org/article/africa-biggest-collection-ancient-human-footprints-found



Nearby at Laetoli, Tanzania in 2016, a new reanalysis of the tracks has been published.

The footprints were originally discovered by Mary Leaky in 1976. Two individuals were identified, and a third track, merging with the first two was later discovered. It had been thought that the track was made by some species of bear, but is now believed to have been made by a hominin. Here are multiple versions of the story: *Science News*: <a href="https://www.sciencenews.org/article/ancient-footprints-mysterious-hominid-lucy-species">https://www.sciencenews.org/article/ancient-footprints-mysterious-hominid-lucy-species</a>



The Smithsonian: https://humanorigins.si.edu/evidence/behavior/footprints/laetoli-footprint-trails Science Daily: https://www.sciencedaily.com/releases/2021/12/211201111934.htm

Photo Credit: Austin C. Hill and Catherine Miller Science News.org, published online December 1, 2022. A reanalysis of five footprints previously discovered at Tanzania's Laetoli site, shown in a photo (top) and in a 3-D contour map (bottom), suggests they were made by a hominid species that lived alongside Lucy's species around 3.66 million years ago.

In Saudi Arabia: Reported in *Science News* by Bruce Bower. Hundreds of animal footprints from multiple species were found in Saudi Arabia in Saudi Arabia's Nefud Desert, which was once an ancient lake. Seven prints made by an ancient hominin were also found, so it is possible humans may have stopped here around 112,000 to 121,000 years ago. Read the full article in *Science Advances* Sept 18, 2020, or in these excerpts:

Science News: <a href="https://www.sciencenews.org/article/footprints-oldest-evidence-humans-arabian-peninsula">https://www.sciencenews.org/article/footprints-oldest-evidence-humans-arabian-peninsula</a> .



See also: CNN News https:// www.cnn.com/2020/09/22/middleeast/ human-footprints-saudi-arabia-intl-scliscn/index.html

#### Photo credit, Klint Janulius

Human footprints, including the one shown here (heel impression at bottom, toes at top), found at an ancient lake suggest that people moved through parts of the Arabian Peninsula more than 100,000 years ago.

New Mexico, 2022— (Previously in the SCAN, Summer 2022,) Footprints in New Mexico are oldest evidence of humans in the Americas.

By Paul Rincon

Science editor, BBC News website

Reprint from <a href="https://www.bbc.com/news/science-environment-58638854">https://www.bbc.com/news/science-environment-58638854</a>

However, a recent article from the Desert Research Institute, Kansas State University, summarized in the *Science Daily*, November 15, 2022, says better dating is needed for the White Sands tracks:

"Scientists from DRI, Kansas State University, the University of Nevada, Reno, and Oregon State University caution in *Quaternary Research* that the dating evidence is insufficient for claims that would so radically alter our understanding of when, and how, humans first arrived in North America. Using the same dating method and materials, the new study shows that the footprints could have been left thousands of years later than originally claimed.

"I read the original *Science* article on the human footprints at White Sands and was initially struck not only by how tremendous the footprints were on their own, but how important accurate dating would be," says Charles Oviatt, emeritus professor of geology at Kansas State University and one of the new study's authors. "I saw potential problems with the scientific tests of the dates reported in the *Science* paper."

"It really does throw a lot of what we think we know into question," says David Rhode, Ph.D., a paleoecologist at DRI and co-author of the new study. "That's why it's important to really nail down this age, and why we're suggesting that we need better evidence." "



Daron Duke from the Far Western Anthropological Research Group speaks with visitors to an archaeological site on the Utah Test and Training Range. U.S. Air Force . Photo by R. Nial Bradshaw

### In Utah,

"Unexpected discovery could make story of very early humans "more real", scientists say." Rachel Fadem, CNN Aug 5, 2022

See also: <a href="https://www.cnn.com/2022/08/05/world/utah-ice-age-human-footprints-discovery-scn/index.html">https://www.smithsonianmag.com/smart-news/archaeologists-find-12000-year-old-human-footprints-in-utah-180980526/</a>

88 fossilized prints – adults and children -- have been found in shallow riverbeds at the US Air Force Utah Test and Training Range. They have been dated to about 12,000 years The site is very near two places on the test range dated to the end of Ice Age where, at one of these hearth sites, Duke found earliest evidence for human tobacco use, "only about ½ mile from these newly discovered footprints." (This gives another meaning to the old cigarette ad –" I'd walk a mile for a Camel".)

On Canada's west coast, footprints which could be as old as 13,000 years, were discovered. Reported in *PLOS ONE*, an open access journal, these footprints were believed, at the time of publication, to be the oldest human footprints in the Americas, now possibly surpassed by the tracks at White Sands, NM. For more information see the following articles:

Western Living Magazine, an excerpt from Tyee Bridge's book *The Heart of the Coast*: <a href="https://www.westernliving.ca/travel/canada/how-archaeologists-found-the-oldest-footprints-in-north-america-on-bcs-calvert-island/">https://www.westernliving.ca/travel/canada/how-archaeologists-found-the-oldest-footprints-in-north-america-on-bcs-calvert-island/</a>

And: https://www.sciencenews.org/article/footprints-put-people-canada-west-coast-13000-years-ago

Controversy in Crete—See the following for the story of footprints possibly made by a hominin at least two million years before the tracks found at Laetoli:

Possible hominin tracks from late Miocene (c.5.7 Ma) from Crete. Proceedings of the Geologists' Association, Volume 128, Issues 5–6, October 2017, Pages 692-693

See also: <a href="https://www.smithsonianmag.com/smart-news/oldest-human-like-footprints-dated-to-605-million-years-ago-180978889/">https://www.smithsonianmag.com/smart-news/oldest-human-like-footprints-dated-to-605-million-years-ago-180978889/</a>

https://www.nature.com/articles/s41598-021-98618-0

#### Tracks in the UK have been found on both the east and west coasts

University of Manchester researchers have found tracks along **Formby Beach**, west of Formby, a town north of the Mersey River mouth and Liverpool. The tracks have been dated between 9,000 and 1,000 years old (Mesolithic to Medieval). As sea level rose, many of the animals were driven out of the area. Human footprints have been found as well. Visitors can go to the beach and see the prints, exposed at low tide, but they are not always visible. For more infor-

mation about this interesting site see: https://www.heritagedaily.com/2022/10/ancient-footprints-found-on-uk-beach/144907

http://www.formby-footprints.co.uk/finding.html https://www.bbc.co.uk/newsround/63087404 Image credit: University of Manchester

# Footprints at Happisburgh on the Norfolk Coast, UK

As of 2014, the tracks on the Norfolk Coast, UK, described in the article cited below, were thought to be the oldest hominin tracks outside of Africa, dated at 1 million to .78 million years. The site came to attention in 2005, when "human-made" flint artifacts were found. The tracks were discovered in May 2013 when waves washed away sand and showed laminated sediments with footprints of varying sizes, suggesting hominins of different ages were present.

Photographs of Area A at Happisburgh.

a. View of Area A and borehole HC from cliff top looking south. b. View of Area A from cliff top looking south. Photos: Martin Bates.

Citation: Ashton N, Lewis SG, De Groote I, Duffy SM, Bates M, Bates R, et al. (2014) Hominin Footprints from Early Pleistocene Deposits at Happisburgh, UK. PLoS ONE 9(2): e88329. <a href="https://doi.org/10.1371/journal.pone.0088329">https://doi.org/10.1371/journal.pone.0088329</a>

See also: Science Daily /www.sciencedaily.com/releases/2014/02/140207134521.htm

https://www.theguardian.com/science/2014/feb/07/oldest-human-footprints-happisburgh-norfolk





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Neanderthal footprints at Gibraltar –Researchers have published a report in the journal Quaternary Science Reviews (*Quaternary Science Reviews*, 2019; DOI: 10.1016/j.quascirev.2019.01.013, behind a paywall), and also in Science Daily Feb 13, 2019 (https://www.sciencedaily.com/releases/2019/02/190213100452.htm)

University of Seville. "Neanderthal footprints found in Gibraltar." The footprints were found in the Catalan Bay Sand Dune, and over the past (as of 2019) ten years, footprints of animals, a possible human and a possible Neanderthal were discovered. Optically Stimulated Luminescence (OSL) dating of quartz grains within the dunes date these footprints to around 29 thousand years ago. Gibraltar's east side, south of the Catalan Bay Sand Dune, has a series of caves, noted for evidence of human and Neanderthal occupation for a period of over 120,000 years. This area has been declared a UNESCO Heritage Site. For more information on the

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nearby caves see: <a href="https://www.theguardian.com/">https://www.theguardian.com/</a>
<a href="world/2021/sep/28/gibraltar-cave-chamber-discovery-could-shed-light-on-neanderthals-culture">https://shed-light-on-neanderthals-culture</a> and <a href="https://www.gorhamscave.gi/gorham-cave-complex/neanderthals">https://www.theguardian.com/</a>
<a href="world-2021/sep/28/gibraltar-cave-chamber-discovery-could-shed-light-on-neanderthals-culture">https://www.theguardian.com/</a>
<a href="world-2021/sep/28/gibraltar-cave-chamber-discovery-could-shed-light-on-neanderthals-culture">https://www.theguardian.com/</a>
<a href="world-2021/sep/28/gibraltar-cave-chamber-discovery-could-shed-light-on-neanderthals-culture">https://www.theguardian.com/</a>
<a href="world-2021/sep/28/gibraltar-cave-chamber-discovery-could-shed-light-on-neanderthals-culture">https://www.gorhamscave.gi/gorham-cave-complex/neanderthals-culture</a>
<a href="world-2021/sep/28/gibraltar-cave-chamber-discovery-could-shed-light-on-neanderthals-culture">https://www.gorhamscave.gi/gorham-cave-complex/neanderthals-culture</a>

This is by no means an exhaustive list. There are many more sites in other parts of the world, including Australia, Mexico and Kenya—too many to mention.

Map graphic from: https://en.wikipedia.org/wiki/Gibraltar#/media/File:Gibraltar map-en-edit2.svg

Original by Eric Gaba (<u>Sting</u>), label/legend edits by <u>Jeff Dahl</u> adapted from: <u>Image: Gibraltar map-en.svg</u>, and edited by Mary Gerbic.

## The world of Stonehenge

This British Museum exhibit is now closed, but there are still several fine videos online, including interviews with the curators, how Stonehenge was built, an illustrated timeline, and Stonehenge and the summer solstice. This is a great place to get your Stonehenge information.

https://www.britishmuseum.org/exhibitions/world-stonehenge

**If you want more current Stonehenge news**, see https://www.theguardian.com/science/2022/dec/16/archaeologists-find-near-stonehenge-ancient-goldsmiths-toolkit, and the journal *Antiquity*, for recent analysis of a stone toolkit which was used by a goldsmith. This article highlights how important a second look can be. The tools were excavated in 1802, near Stonehenge, from a burial dated to about 4,000 years ago.

## News from California State Parks



Castro Adobe SHP: California State Parks and Friends of Santa Cruz County State Parks (thatsmypark.org) are pleased to announce the completion of the restoration of the Castro Adobe in 2022. Visit https://thatsmypark.org/visit/castro-adobe-project/ to see two videos of the restoration and a 3-D visualization of the adobe.

The Castro Adobe in January 2020. Photo by Mary Gerbic

## Virtual Bell Exhibit—September 2022: http://parks.ca.gov/?page\_id=30583

Visit this site to view For Whom the Bell Tolls: Changing Symbolism of California Mission Bells, 1769 to today. This is an interactive experience where one will learn of multiple perspectives on the bells of the California Missions, and the El Camino Real bell markers.



# Oregon State Archaeologists Discover the Oldest Known Projectile Points in the Americas

Reported by Oregon State University, Corvallis, OR on December 23, 2022 https://today.oregonstate.edu/news/oregonstate-archaeologists-uncover-oldest-known-projectile-points-americas:



Projectile points recovered in Area B of the Coopers Ferry Site. Photo: Oregon State University

Thirteen well-dated stemmed projectile points have been recovered from a BLM property near Coopers Ferry, Idaho. They are an inch to two inches long, and date to about 15,700 years ago, which makes them the oldest known projectile points found in the Americas. They are about 3,000 years older than Clovis fluted points and 2,300 years older than anything previously found at Coopers Ferry. Other finds at the site support dates of about 16,000 years ago said Loren Davis, head of the group who found the points, and lead author of a research article in Science Advances (https:// doi.org/10.1126/science.aax9830).

The site on the Salmon River is traditional Nez Perce land. An important observation about the points is their similarity to points found in Hokkaido, Japan dated to 16,000 to 20,000 years ago, which the authors suggest supports a coastal migration into the Americas. The excavation work, conducted in partnership with the BLM and the Nez Perce Tribe, was performed in the summers of 2012 to 2017.

# Report: SCAS Board Meeting Notes Summary Oct-Dec 2022

## By Mary Gerbic, SCAS Secretary

This is a summary of the discussions of the SCAS board, from October to December 2022.

#### October 2022

<u>Speakers:</u> No new speakers have been engaged yet. Pat said she had a line on one for April and has another unbooked month in 2023. Everything is ready for Dr. Elaine Sullivan's talk on Thursday Oct 13.

Mary asked about "hybrid meetings" so that people could either attend in person or on line. We discussed this among ourselves, and think we know how to do this with existing technology. Not everyone will be visible to everyone, but everyone will be able to see and hear the speaker's presentation. Speakers can still present remotely over Zoom, which means speakers won't need to travel to Santa Cruz to present, thus keeping our field of possible speaker candidates as wide as it is now.

The Scotts Valley Display Project (SVDP): Rob Edwards is still waiting on a reply to his grant submission. Mary and Rob wrote an article about the project and Mary sent the article to the editor for the Society for California Archaeology newsletter and the Council of Allied Societies (CoAS) newsletter. Pat asked why didn't we set up a GoFundMe for the project. She will bring this up with Rob.

This month, we also received \$125.00 in donations for the SVDP.

<u>SCAN Contributors:</u> Mary is collecting ideas for the Winter SCAN issue. This issue will be ready sometime in December. Might Peter Von der Porten write a book review for his grandfather's book? Peter replied in email that it would be a conflict of interest for him to do that, and perhaps one of the writers of a couple published reviews might be willing to let us republish his review.

Amanda reported that the paper copy of SCAN has been mailed. She has also mailed a thank you note to our September speaker. Amanda has been sending thank you notes to our speakers for some time now.

<u>Land Acknowledgement:</u> We have approved the latest version, which had been circulating among board members. We decided to place it near the bottom of our Society's home page, in italics.

<u>Updating/Refreshing the Website:</u> Board members are still searching for a web designer who is willing to update our website look.

<u>Membership</u>: Our Membership Coordinator reported that we have had one senior membership renewal this month.

<u>Status of Scotts Valley Cultural Council open position</u>: The board voted to approve Wayne Thompson as SCAS's representative to the SV Cultural Council. Kären reported in email that Wayne expressed an interest in the position, and now meets the requirements for the position (lives in Scotts Valley and is a SCAS member).

#### November 2022

<u>Speakers:</u> Pat has just arranged for Kaitlin Brown, soon to be on the faculty of CSU Northridge, to speak to us on May 11. She recently received her doctorate from UCSB, and the topic of her study was the social hierarchy of neophytes at Mission La Purisima. Pat is still looking for people to speak in April and June.

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Membership: Branden reported that we had one senior renewal and one individual renewal this month.

<u>Scotts Valley Display Project (SVDP)</u>: Pat asked Rob if he had considered setting up a "GoFundMe" site for the SVDP. He wants to wait on doing this.

The committee is \$2,000.00 from reaching the original \$20,000.00 goal. Rob wants to raise an additional \$5,000.00 to cover the cost of copies, flyers and educational material to be available for teachers.

We received \$225.00 in donations for the SVDF this month.

On Oct 28, 2022, construction work on the Scotts Valley Display commenced.

Website Redesign Status: Pat said we should just update the SCAS Logo to the one we adopted in 2016, since we are not going to redesign the web site at this time. We need to find someone who can do what we want, as Robbie and Peter are not sure they have the skill.

Pat's brother-in-law Kevin, did some pro-bono work on the site. He is busy and unable to work on it further. We have updated our security and the website is secured ("https"). A number of outstanding changes were made to the "About Us" page. Robbie posted our "Land Acknowledgement" on the website.

<u>In-Person/Hybrid Meetings</u>: It was agreed that SCAS will start in-person general meetings again in September 2023, preferably at one location. We considered rotating through using the community rooms at our public library locations, but thought that would be too confusing. We are considering using the Capitola Branch library. We will not continue meeting at the Grange. There are problems going forward: insufficient Wi-Fi strength, insufficient technology, the cost of renting the space and the chairs are uncomfortable.

We will be notifying SCAS members when a decision about the location has been made. The "hybrid" concept is to allow for people to attend the meeting through Zoom, as they do now, or attend in person.

<u>Cabrillo College Scholarships</u>: Kären has contacted Dusty McKenzie for information about the two recent recipients of the scholarship program. She is also trying to learn more about the process of choosing recipients.

<u>Sargent Quarry</u>: SCAS did not respond as an organization. The local review period closed on 11/07/2022. Mary Gerbic responded as an individual.

<u>T-Mobile Tower on River Street</u>: SCAS was invited to respond to the construction of a cell phone tower at this location. Sarah Brewer will respond.

<u>Native American Heritage Month</u>: Branden will email the membership letting them know about State Parks initiatives, and the SCA Watch Party and Forum for "Ohlone People: Survivance to Thrivance".

Bean Creek Projectile Point: Martin Rizzo-Martinez informed Rob Edwards that a very old projectile point, possibly a "Rossi Stemmed" point (approximately 4000-3000 years BC), was located in Scotts Valley in a location where no sites have been previously identified. Rob would like to arrange for a survey of the site and possible recording to take place sometime next spring. This volunteer survey by SCAS members will probably be carried out on a weekend. More information on this later.

<u>SCA Conference—March 2023</u>: This meeting will be held in Oakland. Pat asked if other SCAS board members would be attending, and should we consider setting up a book table as we did pre-COVID?

### The Santa Cruz Archaeological Society ‡santacruzarchsociety.org

#### December 2022

<u>Financials</u>: Kevin and Kären are looking into setting up Auto Payments and other online banking for our SCAS account to make it easier to do business. Kevin is also looking into Roberts Rule of Order regarding the acceptance of finances at our board meetings as we do with our meeting notes.

Speakers: Pat is looking for more potential speakers for this spring.

<u>Membership</u>: Branden reported that we had three individual and two senior renewals. One person he contacted wanted to end their membership but declined to say why.

<u>SCAS Newsletter</u>: Mary said that the winter issue would be ready sometime after Christmas. She is trying to get permission to reprint a book review of interest to our members but has not yet heard from the publisher.

<u>Ohlone People: Survivance to Thrivance</u>: Kären attended this web event and said it was very impressive. It was well attended by people from California and beyond. The film was also very good.

<u>Website Business</u>: Pat, Robbie and Kevin Boyd (Pat's brother-in-law, a web designer), have made many updates to our website, correcting out-of-date information. A full redesign is on hold. Pat reported that Kevin had many suggestions to improve the appearance of our website and we are looking into it. Mary thought she would make a stab at developing a much abbreviated version of our SCAS logo for the Board's approval.

### Scotts Valley Display Project:

We are looking for new means of funding the last few thousand dollars Rob would like to pay for flyers and educational material for teachers. We are considering the Community Foundation of Santa Cruz or a grant from the SCA.

Mary mentioned that the article she and Rob wrote has been published in the SCA Newsletter and in the CoAS Newsletter.

Rob reported that the Scotts Valley City Manager has been very helpful and had good suggestions. The city is paying for about \$3,200.00 of the work. Bay Photo will print Linda Yamane's poster. The cost is estimated to be \$2,500.00—3,000.00 for the poster work. We have about \$8,500.00 in donations in-kind. We want to send out a end-of-the-year appeal to our members to consider making another donation and ask if their employer does donation matches.

Rob emailed the Board on 12/24/22 to let us know that Trudy Haversat (Coyote Press) has located 38 copies of the Cartier 1990 Monograph on CA-SCR-177 and wants he the board to purchase them. We could sell them at the SCA meeting in March and/or on our website. Rob has been interviewed by a local news outlet and will let us know when the article is on line.

Kevin approved a payment from the SVDP to cover the printing of the temporary mural in Scotts Valley. We think that it isn't necessary for him to get the Board's approval for these payments ahead of time as the money has already been allocated to the project. Payments will be reported in the financials each month.

We received \$100.00 in donations for the SVDP as of the December 12 meeting date.

<u>SCA Meeting in March</u>: At least three, maybe four of the board members will be attending, and also Rob Edwards. We are still considering whether we have enough personnel attending to have a table in the book room. We have merchandise we purchased just before COVID hit, earmarked for the 2020 SCA meeting. This would be a good time to sell and do some outreach. We have new earrings and stamps as well as t-shirts (and possibly the 1990 monograph).

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<u>Cabrillo College Scholarships</u>: Kären is now our liaison with the Scholarship office at Cabrillo. We don't have enough information yet to decide how we will be involved in the choosing of scholarship recipients in the future. We don't know the students personally.

<u>In Person/Hybrid General Meetings</u>: This is still in the planning stages, but scheduled to start in September 2023. We have a couple concerns about the Capitola Branch location. During the day, at least, parking is a problem. Also as you turn into the parking lot, you are facing a blind curve on Wharf Road, where people regularly speed, requiring caution, especially at night.

<u>SAA/CoAS Membership:</u> It is time for us to renew our membership in the Council of Allied Societies, which we joined in 2017. It is a means by which we can participate in lobbying, especially the federal government, on cultural affairs without jeopardizing our non-profit status. However, we joined through the Society for American Archaeology (SAA). There is some concern that we might be perceived to approve of the way the SAA has handled sexual harassment in recent years. Their response to a Title IX complaint, where a professor was fired, and then allowed to attend the annual SAA meeting, was very anemic, and we are unhappy with that. Should we continue our CoAS membership? We will continue to look into this issue.

<u>Bean Creek Projectile Point—Possible Future Project:</u> We are still considering a possible survey to this potential site in Scotts Valley. It is an opportunity for members to participate in a volunteer archaeological project. Ryan Brady and Sarah Brewer agreed to manage the project. As the project is still in the very early planning stages, we have no other information to offer to our members at this time.



# Cabrillo Awards Archaeology Scholarships

The Cabrillo College Foundation has awarded two archaeology scholarships for 2022. First, the Howard Bickford Endowed Scholarship, Santa Cruz Archaeological Society, Inc. goes to Claire Allen. She entered college at Cabrillo for the first time two years ago, in her twenties. She says that she felt at home at Cabrillo because of the camaraderie, and that the faculty really cares about the students. Cabrillo is giving her a "gentle but empowering transition" before transferring to University of California, Santa Cruz. She thanks the Howard Bickford Endowed Scholarship and the Santa Cruz Archaeological Society for making this possible.

The second scholarship recipient is Sarah Leitch, who received the Cabrillo College Anthropology Department Scholarship in Memory of Mrs. Ruth Edwards. Sarah is also returning to college. She fell in love with anthropology, she says, when she was in a high school biology class. At Cabrillo, she joined the Dig It! Club, and this helped her feel at home at Cabrillo because she now had "friends of all ages who were united by our interest in anthropology". She is currently the president of Dig It!. She will be attending UCSC in the fall but she doesn't yet know what her specialty will be. She is grateful to Cabrillo for helping her find a new career path and helping her find new friends after the isolation of COVID. She thanks the scholarship committee and SCAS for awarding her this scholarship, which will help her pay for field school this summer.

# 2022-23 Winter Speaker Lineup

Until further notice, SCAS General Meetings will be held online. For more information, and directions for how to RSVP for meetings, visit the SCAS website:

http://www.santacruzarchsociety.org/calendar

# RESERVATION ONLY & SPACE LIMITED, WITH PREFERENCE TO CURRENT SCAS MEMBERS.

• January 12 Michael Grone, California State Parks, Santa Cruz District

• February 9 Charlie Mikulik, First Carbon Solutions

• March 9 James Flexner, University of Sydney

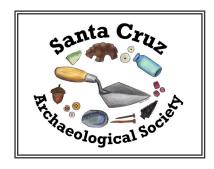
• May 11 Kaitlin Brown, CSU Northridge

# Archaeological Society Business

## SCAS Officers and Contact Info

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Santa Cruz Archaeological Society P.O. Box 85 Soquel, CA 95073



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Please share any arc	haeological interests or experience: