
THE PETROGLYPH

Newsletter of the Arizona Archaeological Society

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December 2019

2019 ANNUAL MEETING OF THE ARIZONA ARCHAEOLOGICAL SOCIETY

Saturday, October 26, 2019

Elks Lodge, 110 Airport Rd, Sedona, Arizona

Welcome: Ellie Large, State Chair, opened the meeting at 10:30 am and welcomed the attendees. She announced that there would be a panel discussion in the afternoon, a dinner that evening, and field trips the next day.

Update on State Meeting: Linda Krumrie, President of the Verde Valley Chapter, thanked the many people and institutions that had helped put on the State Meeting, including the Elks Lodge. She pointed out the Silent Auction and Raffle items available and gave the times they would be closing.

Roll Call: Ellie Large, State Chair, called the roll of chapters and asked for a show of hands of members present:

<u>Chapter</u>	<u>No. Attending</u>	<u>Chapter</u>	<u>No. Attending</u>
Agave House	1	Phoenix	6
Desert Foothills	1	Rim Country	6
Homolovi	3	San Tan	5
Little Colorado River	1	Verde Valley	21
Northern Arizona	4	Yavapai	16

AAS BUSINESS MEETING

Introduction of 2020 Elected State Officers: Sharon DuBose, 1st Vice Chair, introduced the elected officers for 2020:

State Chair - Ellie Large

State Treasurer - Sam Baar

1st Vice Chair - Marie Britton

2nd Vice Chair - Ellen Martin

Secretary: Vacant - Please Apply!

2019 Financial Report: Sam Baar, Treasurer. Sam Baar introduced himself and added a little background. He was an AAS Member in 1968, when there were only two chapters (Phoenix and Prescott), and in 1970 was the Phoenix Chapter President. He was absent from the area for many years, then returned and was very active with the Southwest Archaeology Team (SWAT), and rejoined AAS a few years ago.

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Next deadline is 5 pm,
Monday, Dec. 23

<<< SAVE THE DATE >>>

PreserVISION 2020

18th Annual Arizona Historic Preservation Conference

June 16-18, 2020

DoubleTree by Hilton Hotel

2100 South Priest Drive, Tempe, AZ 85282

....More on the State Meeting....

He became the State Treasurer of AAS a year ago to replace Bob Unferth. His background is in Accounting. He reported that the starting checking balance was \$37,815.39; income was \$13,653.05; expenses were \$7,551.75; the final balance is \$43,916.69. More info to come.

Jim Britton, Treasurer of San Tan Chapter, requested an opportunity to speak to an issue. When an AAS chapter collects dues for a membership, it is required to send \$25 to the AAS State-level. Since most chapter dues are about \$35-\$40, this is a big burden on the chapters, especially small chapters. He suggested that the dues portion that chapters must remit to the AAS State be reduced from \$25 to \$20. The State-level AAS formerly needed more funds for printing and mailing **The Petroglyph** newsletter, which is now sent by email. These extra funds would be very helpful to the survival of small chapters and help ongoing programs of all chapters.

Discussion:

State Treasurer Sam Baar said he thought the Jim Britton’s suggestion was good, however, next year it is expected that publication costs will be higher than usual due to several reports being completed. Also some of the AAS state-level funds are committed funds and not available for other purposes.

Evelyn Christian, Rim Country Chapter President, suggested that the AAS State could subsidize speakers for some of the smaller chapters. Ellie Large, State Chair and Phoenix Chapter President, suggested that the AAS Grant Program could possibly be adapted to this. Sharon DuBose, 1st Vice Chair and Rim Country Chapter Vice President, suggested chapters could increase their dues.

Someone said that they could not find the AAS Budget on the AAS Website. Chair Ellie Large said she would look into that.

2019 Publications Report: Bill Burkett, the Arizona Archaeologist Series Editor, reported that *The Pierpoint Site: A Thirteenth Century Elevated Site near Gila Bend, Arizona*, by Archaeologist David Doyel and a team of 27 AAS members, mostly from the recently disbanded Agua Fria chapter, produced an extensive report which is now under peer review and, with any luck, may be issued in 2020. In addition, the 250-page update to AA 20, *Earth Figures of the Lower Colorado and Gila River Deserts: A Functional Analysis* is in the works despite the recent death of Boma Johnson, the author.

Membership Report: Ellie Large, speaking for Membership Chair Gerry Haase, provided the following figures:

	<u>2018</u>	<u>2019</u>
Chapters	10	10
Households	529	541
Members	776	808

Adjournment: The Business Meeting was adjourned at 10:50 am. Respectfully submitted, Dennis DuBose, Secretary

FEE-BASED SPECIAL EVENTS

Dec. 14, 9 am-Noon: *Arrowhead-making and Flintknapping Workshop* with flintknapping expert Sam Greenleaf at Old Pueblo Archaeology Center, 2201 W. 44th Street, Tucson. \$35 donation (\$28 for OPAC and PGMA members; 50% off for anyone who has taken this class previously.) Learn how to make arrowheads, spear points, and other flaked stone artifacts just like ancient peoples did. Sam provides participants with hands-on experience making projectile points and other tools from obsidian and other stones. All materials and equipment are provided. The class is designed to help modern people understand how prehistoric Native Americans made traditional crafts and is not intended to train students to make artwork for sale. Limited to six registrants. Reservations and donation prepayments required by 5 pm Dec. 12. For more information call 520-798-1201 or email info@oldpueblo.org.

Dec. 14, 2 pm, Tubac Presidio State Historic Park, 1 Burruel Street, Tubac: *Navajo Code Talkers* presented by Jack Lasseter for the Shaw D. Kinsley Lecture Series. \$15. This is the famous story of the Navajo Code Talkers in the Pacific during WWII through the eyes of Chester Nez. Wine and hors d'oeuvres will be served. Reservations are encouraged. For more information call 520-398-2252 or email info@TubacPresidio.org.

*****END-OF-YEAR REMINDERS*****

Renew Now – 2019 AAS Memberships Expire December 31!

There are three ways you can renew your AAS membership:

1. Attend your December chapter meeting, fill out the membership form and pay the chapter treasurer;
2. Download the membership form from the AAS website and mail with your check to the address shown on the membership form; or
3. Pay your membership dues online using **AffiniPay*** or a debit or credit card on the AAS website. Logon to **www.AzArchSoc.org**, click on Membership under About Us, and follow the instructions. (*Our credit card payment processor has changed from PayPal to **AffiniPay**, at the request of Wild Apricot, our web provider. AffiniPay is an independent sales organization supporting online credit card transactions for professional trade associations.) You can still pay your membership dues with Master Card, Visa or Discover as you have in the past. You will not notice any change in the process. If we had continued to use PayPal, Wild Apricot would have charged us \$30 a month in addition to the transaction fee the Society absorbs.

Contact Gerry Haase, State Membership Chair, for more info.

Chapter Treasurers Reminder

Please create and submit your chapter's IRS Form 990 no later than Jan. 15, 2020. These should be sent to AAS Treasurer Sam Baar at his address on the back of the Petroglyph. Thank you for addressing this in a timely manner. Contact Sam for more info.

Annual Chapter Reports Reminder

Chapter Secretaries: Please send your 2019 Annual Chapter Report to Ellen Martin, 2nd Vice Chair, at her address on the back of the Petroglyph, as early as possible in the New Year. If you need help, please feel free to contact either Ellen or Ellie Large, who was 2nd Vice Chair for several years.

UPCOMING CONFERENCES

2020 Southwest Symposium Biennial Archaeological Conference

ASU Memorial Union Ventana Room, Tempe

5 pm Thursday, January 30, 2020 to 5 pm Saturday, February 1, 2020

The theme for the 2020 Conference is *Thinking Big: New Approaches to Synthesis and Partnership in the Southwest/Northwest*. They are also releasing an open call for individual posters or poster sessions that fit within this theme or focus on other aspects of archaeology and history in the U.S. Southwest and Northern Mexico. For further information or details, email Matthew Peeples at Matthew.Peeples@asu.edu or go to: www.southwestsymposium.org.

Sonoran Symposium

Sonoran Desert Inn and Conference Center, Ajo

March 9–12, 2020

Organized by representatives from the Tohono O'odham Nation, Mexico and the United States, the symposium will offer presentations and dialogue about the dynamics of natural and cultural ecology, environmental challenges, and their relationships to peoples, past and present, living in the Sonoran Desert. At the Sonoran Desert Inn and Conference Center in Ajo. Field Trips March 9, Symposium March 10-12.

SAA 85th Annual Meeting

Austin Convention Center, Austin, Texas

April 22 - 26, 2020

The meeting will be held at the Austin Convention Center and the headquarters hotel, the Hilton Austin. Events are scheduled at both locations. Advance Registration will open in mid-December. Go to www.saa.org/annual-meeting/registration-info for more information and to register.

2019 AAS AVOCATIONAL ARCHAEOLOGIST AWARD

Presented to Bob & Del Wright, AAS Rim Country Chapter

Entry submitted by Evelyn Christian, President, RCC

In accordance with the AAS Award Purpose and Criteria, the AAS Rim Country Chapter in Payson, Arizona, recognizes two of our Chapter members as being worthy of this Award. Bob and Del Wright have not previously received this Award. As a couple, they have consistently contributed to our Chapter over a period of more than a dozen years. Bob and Del began searching for and recording unknown Indian Ruins in 1993. Bob and Del together as advocates have contributed much to the archaeological record in the years they have been associated with the Arizona Archaeology Society. They have located, GPS-recorded, and photographed over 8000 sites in Arizona. And they have been Site Stewards for 22 years!

Bob and Del have always performed as a skilled team calling on their athleticism and outdoor experiences to allow them to spend as much time in the field, even at an older age, discovering and surveying remote archaeological sites throughout Arizona, many of which had not been previously recorded by archaeologists. Their typical method of discovery is to trailer in their ATV's with their Cadillac, jump on the ATV's when the road is impassible, and finally continue on foot and rope into the final objective when required.

Within our Rim Country Chapter, they have led innumerable hikes following our monthly meetings, and continue to step up to lead hikes on special occasions. Considering that Bob and Del are in their 80s, that is a remarkable achievement. Del has inspired Bob in all athletic events as she is a National Women's Triathlon Champion, and he himself is a Triathlete. Not only have they led so many of us on so many petroglyph discoveries, but for many years secured Speakers for our Monthly Chapter Meetings in conjunction with the post-meeting hikes. They always display generous spirits as evidenced in their gifts of time, energy, talent and support of our Chapter and its members.

Del once told me that they have a special place in their hearts for us here in Rim Country. They could support other AAS Chapters, but have chosen us, and drive the distance from Fountains Hills each month to be with us, often bringing family, neighbors and friends.

A little about their backgrounds:

Bob served two years in the Army Military Police during the Korean War. He drew duty at Supreme Headquarters Allied Powers Europe in Paris, France. He married Airline Stewardess and Nurse Del shortly after discharge and together they raised 4 children.

Bob received his Mechanical Engineering Degree from Iowa State College on the GI Bill. He spent 30 years in Advanced Technology Rockwell/Collins/Boeing while concurrently managing Technology Groups in Iowa, Texas, California, and Maine. His work involved design of Autopilots, Flight Directors, GPS, and Interconnect Technology. He did a Technical Presentation at a World Interconnect Technology Conference in London, England.

Together, Bob and Del toured the World upon retirement covering 5 Continents and 30 Countries. They have completed 400 Athletic Events including Iron Man - Hawaii, and bicycled the US Coast-to-Coast on an unusual route of 4000 miles in 90 days.



Evelyn Christian presenting the Avocational Award and Certificate to Bob and Del Wright

CHAPTER NEWS



Agave House Chapter

October Meeting: Heather Maurer, Archaeologist for Black Mesa Ranger District, Apache-Sitgreaves National Forest, filled in for our scheduled speaker who had to cancel at the last minute. Heather spoke to us about the archaeological perspective on the 377/277 fire. [A little background on the fast-moving fire which was first reported at 1:26 pm Monday afternoon, June 4, 2019, as 15 individual ignitions along a 21-mile stretch of state highways 277 and 377. The fire was started by a truck with an open-bed trailer with a loading ramp that had fallen down and was dragging on the highway sparking fires as the truck moved down both highways. Upon investigation by firefighting teams, over 28 separate fires were started which caused both highways to be shut down. Highway 277 opened the next day, but Highway 377 was closed until around 6 am on June 8. The fire damaged Navopache Electric lines and electricity was turned off to the Heber/Overgaard communities at 2 pm on June 4 and was finally restored at 5:49 pm on June 5. A number of families in the area were evacuated for a few days also.]

According to Heather, archaeologists are called upon immediately to report any cultural resources in a fire area and in the projected path of a fire to the fire command. They use this information to determine, if possible, how to manage their fire-fighting efforts. Of importance is the placement of bulldozers which create fire lines to help contain fires. Bulldozers do a lot of damage to archaeology sites and care is taken to try and not bulldoze over them if possible. After the fire has burned over an area, archaeologists and other personnel and volunteers walk the entire area to identify any site that has been burned to assess the damage done and note unknown features and artifacts. They also look for any unrecorded sites. Heather explained that over 30 new sites were recorded in the 377/277 fire burn area. Other considerations that have adverse effects on sites are retardant damage (the dye used in the retardant is permanent and does not wash out), ATV damage, and possible erosion and flooding in the area.

This was a great presentation from a personal viewpoint as most of the audience live in in the area the fire flashed through, and several of the members were volunteers who helped with the archaeological assessments. Thank you, Heather, for the interesting and informative presentation!

Next Meeting: Our Chapter does not meet in November and December so the next meeting will be January 20, 2020. See you in the new year!

--Era Harris

Desert Foothills Chapter

November Meeting: Mark Hackbarth, MA & RPA, presented *Recent Archaeological Investigations in the Foothills*. Three recent excavation projects near Cave Creek identified small Classic, Sedentary, and earlier sites spanning a timeframe from AD 1 to 1250. All three project areas had been used to process plant resources but only one location included temporary shelters. The different artifact and feature assemblages provided information about prehistoric adaptations to seemingly barren landscapes. Note: this meeting moved to the Cave Creek Museum due to unexpected scheduling of roof replacement and other construction-oriented items at our normal church facilities. The museum made their facilities available on short notice and included tours after the meeting. The audience was standing-room only and the presentation captivating as the theme wove into the topic of large sites versus smaller sites. He covered topics from early migration patterns into the Americas through current construction finds in downtown Phoenix, as well as finds in our local area which indicated a broader timeline than expected.

The Nov. 5th Field Trip to the Boyce Thompson Arboretum, which brings together plants from around the world's varied desert environments displayed alongside unspoiled Sonoran Desert vegetation, was enjoyed by all.

The Nov. 20th Field Trip was to the prestigious Bashas' Art Collection in the Zelma Basha Salmeri Gallery at Bashas' Chandler Headquarters. The contemporary Western American and Native American collection was rated 5-Stars on Google and features free admission with over 3,000 pieces. It is a rare gem that is often overlooked in the Phoenix Valley.

Dec. 11th Holiday Party: Information was provided at the November Meeting for the party and registration form. Registration forms and notifications were also sent out in an e-blast on Oct. 14th and in multiple e-blasts in November. The cutoff date for party registration receipt and payment by Kathy Queen is Dec. 2nd. The cutoff is necessary for food preparation and planning (as well as for your selections). We still need Silent Auction Items for the party. Donations are appreciated; donation contacts are Liz Wescott, elizabethjulia00@gmail.com, and Tammy Teegardin, teegardins@msn.com. Walk-ins **cannot** be accommodated at the event so please make your reservation early.



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Note: Please renew your DFC Membership for 2020 early. People are always busy and distracted at the end of the year with holidays and travel, avoid not being eligible for activities as the new year begins. Forms were provided at November Meeting and are posted on DFC website.

The Desert Foothills Chapter is taking orders for new name badges. If you would like to order one, the cost is \$20.00. Contact Mary Kearney at maryk92@aol.com for more information. Members have been requesting new badges for a while, so this is your chance!

Chapter Web News: The chapter website, www.azarchsoc.wildapricot.org/desertfoothills, is the best place for chapter news and updates. If you are gone for the summer, taking a vacation, or unable to attend meetings, this is an excellent information source. The chapter website slide-show files are back up and running. PLEASE NOTE: the DFC 2020 membership renewal form is available on our chapter website.

Classes, Workshops, Special Events and Expanded Field Trips: Mary Kearney is the primary contact for classes, workshops, special events or trips at maryk92@aol.com and the only place to sign up or get more information. Classes, workshops, and trips are open to **current AAS members only** with DFC members having priority. Note: Mary is working on next year's activities now, more news soon.

--Roger Kearney



Homolovi Chapter

The Homolovi Chapter's November meeting featured Richard Jenkinson speaking on the rock art of the Dinetah, with many beautiful photos as well as stories to bring the art alive. We have no meeting in December. Our January meeting will feature Jason Nez, a Navajo archaeologist, with more details coming next month.

--Sky Roshay



Little Colorado River Chapter

November: In lieu of a regular meeting, our chapter participated in a field trip to Amity Pueblo. The pueblo, located within the town of Eagar, has been to subject of much concern and controversy in the past few years. Discussed during the tour was what little is known of the pre-Columbian history of the site, which probably dates to the Pueblo III time frame, the Mormon and Hispanic settlement of the area in the late 1800's, and the recent attempt to create a fishing pond near the pueblo. As a result of the many mistakes made during the efforts to create a fishing pond, the property was transferred to the Archaeological Conservancy and it will now be monitored and protected from any future incursions. The tour was led by Carol Farnsworth. Check out the Little Colorado River Chapter Facebook page for photos of the tour.

The December 15th meeting will be a Christmas party complete with election of new officers, a potluck lunch and the exchange of 'White Elephant' gifts. Friends and family are welcome at the party. Contact Carol at farnsc570@gmail.com or 520-834-6964 for information on time and location.

--Carol Farnsworth



Phoenix Chapter

Dec. 10th Meeting: The December meeting is our Holiday Potluck, which will begin at 6 pm, followed by a short business meeting and annual election about 7 pm. If joining us for the potluck, please bring a side dish or dessert to share; meats, rolls and beverages are provided by the chapter. Everyone who attends the potluck will receive a raffle ticket, and after the presentation we will draw tickets for the table decorations.

Election for 2020 Board: At the December meeting we will hold the election for next year's board officers. The slate is:

President:	Ellie Large	1-Year Dir/Newsletter:	Nancy Unferth
Exec VP:	Eric Feldman	2-Year Dir/Field Trips:	Phyllis Smith
Treasurer:	Gail Williams	3-Year Dir/Membership:	Vicki Caltabiano
Secretary:	Ellen Martin	Archivist/Cert Rep	Marie Britton

The presentation, which will begin about 7:30 pm, is on **Angkor Wat and the Khmer Empire of Cambodia** by Todd W. Bostwick, Ph.D. Angkor Wat is one of a remarkable group of ancient stone temples that were built in the tropical forests of Cambodia and Thailand between the 8th and 13th centuries AD. The urban complex in modern day Siem Reap, Cambodia is

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at least 200 square kilometers in area. Their temples are not only impressive in size but are elaborately decorated with beautifully carved sculptures of Hindu gods, sacred dancing girls, and Buddha faces on lintels, walls, and free-standing stelae before and within the temples. This talk will focus on a number of those temples, including Angkor Wat, and will include some of the latest research at this World Heritage site.

Dr. Bostwick has been conducting archaeological research in the Southwest for 40 years. He was the Phoenix City Archaeologist for 21 years at the Pueblo Grande Museum and is now the Director of Archaeology at the Verde Valley Archaeology Center in Camp Verde. He has an M.A. in Anthropology and a Ph.D. in History from Arizona State University, and taught classes at both ASU and Northern Arizona University for seven years. He has published numerous books and articles on Southwest archaeology and history, and his projects have received awards from the National Park Service, the Arizona Governor's Archaeology Advisory Commission, and the Arizona Archaeological Society.

Nov. 12th Meeting: John Langan, Archaeological Project Director for Aztec Eng., Phoenix, explained what they learned from excavating 25 sites in advance of widening State Route 86, which stretches from Why, Az., to Interstate 19 just south of Tucson. Prior interpretations were based on work at only four sites in the eastern Papaguería (Ventana Cave, Jackrabbit Ruin, Valshni Village, and Gu Achi) which were thought to be rare sedentary or semi-sedentary outposts in a sparsely populated region. Other than Ventana Cave, which was almost continuously occupied, no evidence for occupation between ca. AD 150 and 750 had been found. The SR86 projects provided evidence for more settled populations continuously occupying the Baboquivari Valley and the foothills of the Quinlan Mountains from the Late Archaic-Early Agricultural period through at least the protohistoric period. Formalized pithouses, maize agriculture, and a complex and distinctive mortuary pattern indicate a greater degree of permanence than previously recognized. These populations may have practiced a somewhat mobile subsistence strategy, similar to the "two-village" approach common to historic Tohono O'odham groups. Nearly all sites from which reliable dates were obtained included more than one temporal component, suggesting repeated occupations.

Jan. 14th Meeting: Janine Hernbrode, Archaeology Southwest, will talk about *Patterns in Petroglyphs: Hints of the Hohokam Cosmology on the Landscape*

Jan 18th Field Trip: Cocoraque Ranch Petroglyph Site tour with Janine Hernbrode. \$20 fee. More information later. (See https://en.wikipedia.org/wiki/Cocoraque_Butte_Archaeological_District for more info on the site.)

The Phoenix Chapter meets at 7 pm on the 2nd Tuesday of each month in the Community Room at the Pueblo Grande Museum, 4619 E. Washington St., Phoenix. We take the speaker to dinner at 5:30 pm at the Ruby Tuesday Restaurant on 44th Street and Washington just northwest of the museum. If you are interested in having dinner with the speaker, please call or email Marie (480-390-3491 or mbrit@cox.net) so that she can reserve a large enough table.

--Ellie Large



Rim Country Chapter

We have a **change of Date and Venue** for this month: Please come to the **Payson Senior Center**, 514 W Main Street, Payson on Saturday, **Dec. 14th** - not to the Payson Library on Dec. 7th. We are honored again have Dr. Todd W. Bostwick as our featured speaker. Todd's topic is *Angkor Wat and the Khmer Empire of Cambodia*. A succession of Hindu and Buddhist kings in the tropical forests of Cambodia and Thailand built one of the most remarkable group of ancient stone temples in the world between the 8th and 13th centuries. One of these temples, Angkor Wat, is well known but dozens of other amazing temples and massive reservoirs were constructed the vicinity of this amazing site. The late Michael Coe stated that if the Greeks and romans had known about Angkor, they surely would have counted that great city as the eighth wonder of the world. Influenced by India to the northwest and China to the northeast, the Khmer civilization built an urban complex in modern day Siem Reap, Cambodia, that is at least 200 square kilometers in area. This well-illustrated talk will examine a number of those temples, including Angkor Wat, and will discuss some of the latest research at this World Heritage site.

Dr. Bostwick served for 21 years as the City Archaeologist for the City of Phoenix at Pueblo Grande Museum. Among other achievements, he is presently head archaeologist for the Verde Valley Archaeology Center.

There will not be a hike following this meeting. Bring your friends and neighbors to this fine event.

--Evelyn Christian

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San Tan Chapter

Our Dec. 11th Meeting is our annual Holiday Potluck, and due to continuing floor renovations at the San Tan Historical Society Museum, it will also be in a new location. It will be held in the **Founders Room at Queen Creek Town Hall**, 22358 S Ellsworth Road, just south of Ocotillo. Time will be 6:30 to 9 pm. Bring your favorite dish to share with the group. It should be a fun evening with friends.

Our speaker will be Chris Loendorf, Project Director, Gila River Indian Community, and our chapter advisor, who will explain the *Rock Art Conservation Efforts in the Gila River Indian Community (GRIC)*. Their Cultural Research Management Program (CRMP) is actively involved in the protection and management of the many rock art sites within the community. These locations play a role in ongoing traditions and remain culturally significant to members of the modern community. Because of the sacred and sensitive nature of the extensive prehistoric and historic rock images in the community, efforts have focused on documentation of areas that are undergoing active vandalism and on efforts to stop this destruction. This includes recent and extensive cleaning efforts at several large petroglyph sites. As part of this work, The CRMP has conducted Energy Dispersive X-Ray Florescence Spectroscopy (EDXRF) analyses of rock art both within the community and in other locations. This research includes both documentation of vandalism for conservation efforts, as well as analyses of prehistoric and historic pigments employed to produce pictographs. For example, one study of livestock brand petroglyphs and pictographs in the GRIC documented evidence for previously unrecognized animal husbandry practices, as well as long-term continuity in cultural traditions from the prehistoric to the historic periods. Another example is provided by an EDXRF study of pictographs from Picture Cave in Fort Bliss, Texas, which documented variation in pigments that may be associated with different episodes of painting at the site.

--Marie Britton



Verde Valley Chapter

December 19th Meeting: The Chapter will be having a holiday dinner at 6 pm followed by a presentation on *The Astronomy of Ancestral Puebloans* by Bryan Bates which had been originally scheduled for the November meeting, but due to weather was postponed until December. The dinner and presentation will be held in the public meeting room of the Sedona Public Library, 3250 White Bear Road in West Sedona.

While living on the Navajo Reservation, Bryan began watching the skies and sharing his experience with Navajo kids, who then shared their sky stories with him. This sparked his interest in the astronomy of native societies. When working at a therapeutic high school in Idaho, he and his students reconstructed a full-scale model of Stonehenge. At Wupatki National Monument, he recovered the significance of an ancestral Puebloan calendar wall which he will share with us today. Winner of the 2013 VIOLA Outstanding Science Educator Award, Bryan Bates is best known for his research in the astronomy of the ancestral Puebloans and their development of science through observation of natural cycles. He continued with research on Fajada Butte at Chaco Canyon National Historical Park, confirming the lunar standstill shadows on the "Sun Dagger" site. Chair of the 7th Oxford International Conference on Archaeoastronomy in 2004, he was also the co-editor of the conference proceedings, *Viewing the Sky through Past & Present Culture*, and later co-editor of the 2010 edition of the Journal of Astronomy in Culture covering both technical research aspects and research results on archaeoastronomy in the Southwest.

Bryan has explored and led wilderness trips in the mountains and canyons of the west for 40 years. Following a BA degree in Native American Studies and an MS in Environmental Science, he and a friend backpacked 21 days through the Grand Canyon. He has led canyoneering backpacks, been a river guide, and conducted archaeological and archaeoastronomical research across the Colorado Plateau, including the Grand Canyon. Bryan taught biology, environmental science and natural history at Coconino Community College until retiring as Professor Emeritus, Science. He is currently the President of the Society for Cultural Astronomy in the American Southwest.

In addition to his research and teaching, Bryan works as an interpretive naturalist with a number of different organizations including the American Association for Advancement of Science, the National Parks Conservation Association and numerous Natural History Museums, and now the Museum of Northern Arizona. He lives with his wife and daughter in their two-story solar-powered and resource-recycling Hogan that Bryan designed and built and which was awarded the 2004 Sustainable Housing Award.

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Upcoming Meetings:

Jan. 23: Jim Turner of the Arizona Humanities Council will be giving a talk titled *The Shadow Catchers: 150 Years of Arizona Photography*.

Feb. 27: Dr. Frank Bungartz, Lichenologist.

Unless otherwise noted above, Chapter meetings begin at 7 pm in the public meeting room at the Sedona Public Library, 3250 White Bear Rd. in West Sedona.

--Jon Petrescu



Yavapai Chapter

General Meetings: Our meetings are now on the 3rd Wednesday of the month and start at 6:30 pm in the Pueblo Room in the Smoki Museum at 147 N. Arizona Avenue in Prescott. Pre-meeting dinners remain the same, gathering at 4:30 pm at Augie's, 1721 AZ-69, between McDonald's and Einstein Bros., in front of the Frontier Village Center in Prescott.

Our November meeting will feature Kathryn Turney, the cultural resources manager for Yavapai County, will talk about the displacement of Navajo families when the Wupatki National Monument was established in 1924. The remarkable structures of Wupatki were likely built by ancestors of the Hopi, although when the monument was created it was home to several Navajo families who, through the loss of livestock grazing areas to other settlers, were struggling to make a living in this marginal locale. With the creation of the monument, the Navajo families were displaced from the area, leading to changes in their kinship and family dynamics in the Wupatki Basin. Kathryn will tell us what she has learned about this displacement through oral histories, ethno-archaeology, and spatial analysis studies of the descendants of the area's earliest dwellers.

We are still planning on having Justin Parks talk about the *Experimental Archaeology of Bows & Arrows* including a demonstration at a future meeting.

Field Trips: In October we took a field trip to the Honanki Heritage Site near Sedona. Honanki and its sister site, Palatki, were the largest cliff dwellings in the Red Rock area around Sedona when they were in their prime around 1150 to 1350 AD. The sites are open to the public and well worth a visit if you missed our trip. Details here.

Our next field trip will be to the historic and prehistoric Richinbar sites located in the Agua Fria National Monument east of I-17. The monument includes Perry Mesa and has many sites of interest for both history and archaeology buffs. The chapter's Nov. 23rd outing will take members to both the mine and the pueblo sites. There is some controversy about the Richinbar mine and just how rich it actually was. What is easy to tell today, though, is that it is a very interesting site with several unusual structures remaining. And just across the canyon lie the ruins of a large prehistoric site that includes an ancient agave farm which still shows evidence of check dams.

Book Sale: We will be continuing our book sales at the general meetings. You can buy books or reports that might interest you or you can bring books from your collection to offer to other members. All proceeds will go to the chapter.

VP Still Needed: We are still looking for a new chapter VP to serve in 2020. The primary duty is to arrange for guest speakers for our general meetings, if you are interested please contact us at yaasec@gmail.com.

Willow Lake Pit Houses: The chapter is always in need of members to serve as docents at the pithouses that we look after at Prescott's Willow Lake Park. We are there on the first Saturday of each month between 10 am and noon. If you are interested, Education Chair Warner Wise will bring you up to speed. Get in touch with him here.

Holiday Pot Luck Dinner: This is planned for December, details to follow.

At the Smoki: November and December is the **Elder Winter Clothing Drive**. This community outreach program provides warm winter clothing to elderly people in tribal communities. Donations of new or gently used adult winter clothing may be dropped off at the museum during regular business hours. More info is always available on the Smoki's Events webpage.

--Ian Critchley

UPCOMING SPECIAL TOUR

Dec. 21, 8 am-noon, OPAC, Tucson-Marana: *Winter Solstice Tour of Los Morteros and Picture Rocks Petroglyphs Archaeological Sites* with archaeologist Allen Dart. Departs from near Silverbell Road & Linda Vista Blvd. in Marana. \$25 donation (\$20 for OPAC and PGMA members). Limited to 32 people. Reservations and donation prepayment required by 5 pm Dec. 19; 520-798-1201 or info@oldpueblo.org.

UPCOMING EVENTS

AAHS	Az Arch. & Hist. Society, UA Duval Auditorium, 1500 N Campbell Blvd, Tucson; az-arch-and-hist.org
ASM	Arizona State Museum, 1013 E University Blvd., Tucson; 520-621-6302; statemuseum.arizona.edu
ASW	Archaeology Southwest, 300 N. Ash Alley, Tucson; 520-882-6946; archaeologysouthwest.org
CGRNM	Casa Grande Ruins National Monument, 1100 W. Ruins Drive, Coolidge; 520-723-3172
CSP	Catalina State Park, 11570 N Oracle Rd, Tucson; 520-628-5798; azstateparks.com/catalina
HSP	Homolovi State Park, Winslow; west of Hwy 87 ne of Winslow; 928-289-4106; azstateparks.com/homolovi
OPAC	Old Pueblo Archaeology Center, 2201 W. 44th Street, Tucson, 520-798-1201; oldpueblo.org
OSP	Oracle State Park, 3820 Wildlife Dr., Oracle, 520-896-2425; azstateparks.com/oracle
PGM	Pueblo Grande Museum, 4619 E. Washington St., Phoenix, 602-495-0901; pueblogrande.com
PGMA	Pueblo Grande Museum Auxiliary, 602-534-2430 ; www.pueblogrande.org
RMSHP	Riordan Mansion State Hist. Park, 409 W Riordan Rd, Flagstaff; 928-779-4395; azstateparks.com/riordan-mansion/
RRSP	Red Rock State Park, 4050 Red Rock Loop Rd, Sedona, 928-282-6907; azstateparks.com/red-rock
SCRCA	Spur Cross Ranch Conservation Area, 44000 N. Spur Cross Rd, Cave Creek; maricopacountyparks.net
WTMRP	White Tank Mountain Reg. Park, 20304 W. White Tank Mtn Rd, Waddell; maricopacountyparks.net

Dec. 3, 5:30-7 pm, ASW, Tucson, Archaeology Cafe: ***Why You Should Experience Pecos National Historical Park*** free lecture by Jeremy Moss in The Loft Cinema, 3233 E. Speedway Blvd. Guests may purchase refreshments & snacks from the concession bar. Program begins at 6 pm in Theatre 1. Plenty of free parking!

Dec. 4, Noon, CGRNM, Coolidge, Talk: ***The Dimension of Uncomfortable Truths*** by Dominic Henry in the Casa Grande Ruins visitor center theater. He will discuss how historic preservation preserves environments and places that tell the rich history of our Nation's past, including history that can be difficult to discuss and understand.

Dec. 4, 6:30-8 pm, PGM, Phoenix, PGMA Talk: ***Navajo Traditional Horse Training Through Songs*** by Jay Begaye, a Dine (Navajo) singer, songwriter, painter, sculptor and a former rodeo contestant.

Dec. 7, 9 am-noon, ASW, Tucson: ***Hands-On Archaeology: How Did People Make and Use Stone Tools?*** workshop with ancient technologies expert Allen Denoyer. Ages 18 and up. Space is limited. Contact Kathleen Bader at 520-882-6946 x15 or kbader@archaeologysouthwest.org.

Dec. 9, 15, 24, 29, 31 at 9 am, CSP, Tucson: ***Romero Ruins Adventure Walks***. Join Park Ranger Jack as he leads a tour of the Romero Ruins Trail, where the whole family can learn about the history and mystery surrounding the Hohokam's largest ruin site in the park.

Dec. 9, 12:15-1 pm, RMSHP, Flagstaff, Brown Bag Lecture: ***Dinosaur Wars*** presented by Kevin Schindler. Two paleontologists - Edward Drinker Cope and Othniel Charles Marsh - were bitter rivals who tried to outdo and embarrass each other at every step. In the process, they led expeditions around the American West that led to some of the greatest dinosaur discoveries ever. Free.

Dec. 9, 6-9 pm, AAHS, Tucson, Lecture: ***Annual Holiday Potluck and Research Slam*** at Archaeology Southwest, 300 N Ash Alley. Up to 10 researchers will summarize their research in dynamic 3-minute presentations followed by the Holiday Party and Potluck.

Dec. 14, 10 am-noon, ASW, Tucson: ***Hands-On Archaeology at Steam Pump Ranch***: Ancient technologies expert Allen Denoyer leads family-friendly hands-on archaeology activities at historic Steam Pump Ranch, 10901 N. Oracle Rd., Oro Valley. Free. Go to www.archaeologysouthwest.org/event/hands-on-archaeology-at-mission-garden-2/2019-12-28/ or contact Kate Fitzpatrick at 520-882-6946 x26 or kfitzpatrick@archaeologysouthwest.org.

Dec. 14&15, 9 am-4 pm, PGM, Phoenix: ***43rd Annual Indian Market***. Shop over 100 artists booths including fry bread, Navajo tacos, cactus chili and burgers will be available with food trucks. Raffle prizes for fabulous prizes including jewelry, blankets, gift certificates and more – all proceeds benefit the PGMA. In observance of the 90th Anniversary of Pueblo Grande Museum, this year's Market will be **Free** to all.

Dec. 15, 9 am-2 pm, SCRCA, Cave Creek, Hike: ***Elephant Mountain Fortress Hike***. Join us for a 7-mile, 5-hour roundtrip trek into the backcountry to one of the premier archaeological sites on the conservation area. Participants need to be in good condition and familiar with hiking on primitive trails. Bring at least 2 liters of water. Wear a hat and dress in layers. No dogs.

(Continued from page 10)

UPCOMING EVENTS cont.

Dec. 15, 1 pm, RRSF, Sedona: **Archaeology Hike at Red Rock State Park**. The guide will point out the various archaeological features visible from the trails and interpret them in the context of important Sinagua sites.

Dec. 21, 10 am–2 pm, PGM, Phoenix, SALT Saturday. **Study of Ancient Lifeways and Technologies Skill of the Month: Cordage**. Learn how to process fibers for cordage. This is a drop-in program, where visitors can informally ask questions and observe live demonstrations.

Dec. 21, 7:30-8:45 am, WTMRP, Waddell: **Sunrise Hike: Blackrock Long Loop (1½ miles)**. Watch the sunrise from a viewpoint, experience the Sonoran Desert as it wakens, and see ancient petroglyphs along the trail. Please leave your dog at home; meet at Area 4. Bring your camera! And don't be late – the sun won't wait!

Dec. 27, 10-11 am, PGM, Phoenix, Tour: **Guided Tour of the Park of the Four Waters** takes you through the remnants of two prehistoric canals. \$5 in addition to museum admission; museum members free. First-come, first-served; space is limited. Sign up on day of tour.

Dec. 28, 9 am-1 pm, ASW, Tucson: **Hands-On Archaeology at Mission Garden**: free activities and demonstrations by Allen Denoyer at Mission Garden, Tucson's birthplace, 946 W. Mission Lane. Free. Contact Kate Fitzpatrick at 520-882-6946 x26 or kfitzpatrick@archaeologysouthwest.org.

CHAPTER MEETING SCHEDULE

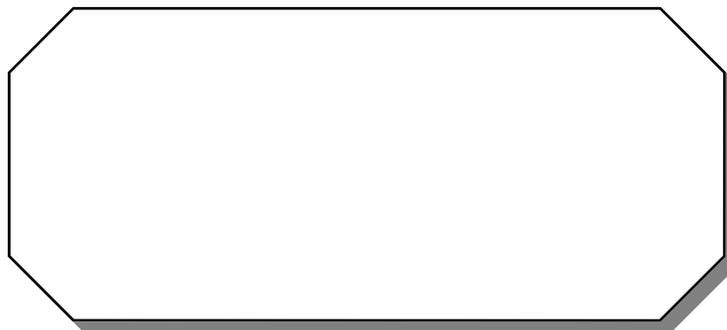
<u>Chapter</u>	<u>Location</u>	<u>Date & Time</u>	<u>Membership</u>
Agave House	Black Mesa Ranger Station Conf. Rm. 2748 Hwy. 260, Overgaard	4 th Wed., 6:30 pm	Era Harris 928-713-1282
Desert Foothills	The Good Shepherd of the Hills Community Building, 6502 E Cave Creek Rd., Cave Creek	2 nd Wed., 7 pm Sept. thru May	Glenda Simmons 928-684-3251
Homolovi	Winslow Chamber of Commerce 523 W. 2nd Street, Winslow	2 nd Wed., 7 pm	Karen Berggren 928-607-1836
Little Colorado River	Casa Museum, 418 East Main Springerville	3 rd Mon., 7 pm	Tony Contreras 970-210-3238
Northern Arizona	The Peaks "Alpine Room" 3150 N. Winding Brook Road Flagstaff	3 rd Tues., 7 pm Sept. thru Nov., Jan. thru June	Bob Malone 202-882-6918
Phoenix	Pueblo Grande Museum 4619 E. Washington, Phoenix	2 nd Tues., 7 pm Sept. thru May	Nancy Unferth 602-371-1165
Rim Country	Payson Library 328 N Mc Lane Rd, Payson	1 st Sat., 10 am	Dennis Dubose 541-921-7760
San Tan	San Tan Historical Society Museum Ellsworth & Queen Creek Roads Queen Creek	2 nd Wed., 7 pm Sept. thru May	Marie Britton 480-390-3491
Verde Valley	Sedona Public Library 3250 White Bear Road Sedona	4 th Thurs., 7 pm, Sept. thru May 3 rd Thurs., 7 pm, Nov and Dec.	Jerry Ehrhardt 928-282-1557
Yavapai	Pueblo of the Smoki Museum 147 North Arizona St., Prescott	3 rd Wed., 6:30 pm Sept. thru Nov., Jan. thru June.	Kent Hart yaskvh4488@ gmail.com



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OBJECTIVES of the AAS:

- To foster interest and research in the archaeology of Arizona
- To encourage better public understanding and concern for archaeological and cultural resources
- To protect antiquities by discouraging exploitation of archaeological resources
- To aid in the conservation and preservation of scientific and archaeological data and associated sites
- To serve as a bond between the professionals and the avocational non-professionals
- To increase the knowledge and improve the skill of members in the discipline of archaeology
- To participate in investigations in the field of archaeology and to put the information so obtained into published form
- To publish a journal and such monographs as the publications committee deems appropriate

PUBLICATIONS

<i>Ellie Large, Petroglyph Editor</i> Nancy Unferth, <i>Chapter News editor</i> thepetroglyph2@cox.net	<i>Bill Burkett</i> <i>Arizona Archaeologist Series Editor</i> azarched@azarchsoc.org
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