



Verde Valley Archaeology Quarterly

VVAC Partners with National Park Service - Page 4

Protecting the Ancient Cultural Heritage of the Verde Valley

Summer 2017

The “Old Guys” Clear Pathway

When word got out that the Center was beginning to work on the Native American Pathway, Ken Zoll was approached by Ray Floyd to offer the services of the Camp Verde "Old Guys." When asked how many were in the group, Ray replied “Depends on how many are alive this week — lost two last week but picked up two new ones this week.” Tongue-in-cheek humor aside, these “Old Guys” are well known in Camp Verde for their volunteer work from restoring the historic Old Jail, to putting in steps by the ramada, to helping install lights on the soccer field, to restoring the Hance House, to working on the new library garden. Donating their time, strength, sweat and resources, they are a priceless resource and asset to Camp Verde. The workers on the Pathway were: Steve Vanlandingham, Chip Norton, George Dvorak, Jimmy Whatley, Gary Kenfield, Jim Sweitzer, Bruce George and Ray Floyd. In the picture below, they are joined by Board Member Tom Burris working the back hoe. We are extremely grateful to these “guys” who are only “old” according to the calendar but not in spirit.

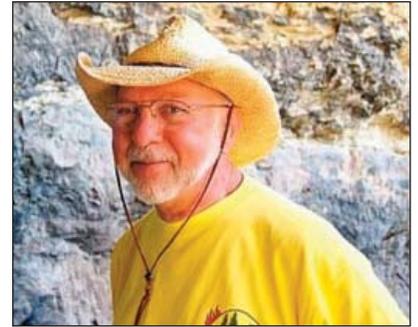


In Memoriam: Joella Jean Mahoney

We were very sad to learn of the passing of long-time member and supporter, Joella Jean Mahoney on June 9, 2017. Joella was a delightful person who supported the Center with her spirit and her art. Joella graduated from Arizona State College, now Northern Arizona University, in 1955 with an M.F.A. She was Professor of Art Emerita at the University of La Verne in California. Her large scale paintings had become internationally known through the “Art in the Embassies” Program, sponsored by the U.S. State Department and through numerous exhibits, including an annual New York show and a one-woman show, *Passionate Vision*, at the Museum of Northern Arizona in 2005. In describing her career she said: “I was from Chicago, by way of California. I saw Arizona for the first time when I stepped off the train in Flagstaff to attend college. It was dawn. The stars overhead were like lanterns, the sky was crystalline and in the distance the mountains were like cardboard cutouts. The sun came up and turned the scene into Technicolor. I saw a landscape that matched how I felt inside and I stepped into my future.”

Ron Krug Wins Governor’s Award

One of our Founding Board Members Dr. Ronald Krug has been selected to receive the 2017 Governor’s Archaeology Advisory Committee’s Avocational Archaeologist Award in Public Archaeology. As a “citizen scientist,” Dr. Krug’s primary interest has



been to document and map the distribution of projectile points found on the Coconino National Forest, creating a database that can be used by future researchers. By early 2017, Dr. Krug had catalogued and documented almost 5,000 projectile points. He purchased and learned how to use a Geographic Information System program to analyze their distribution patterns, ensuring this information is archived and available to future researchers. A component of Dr. Krug’s work has been public education, outlining why collecting artifacts from the ground surface is not a harmless activity and why collecting artifacts on public lands is illegal and has many negative ramifications, including an impact on future research. The Governor’s Archaeological Advisory Commission is a statutory board that advises the State Historic Preservation Officer on issues of relevance to Arizona archaeology. The awards are presented to individuals, organizations, and/or programs that have significantly contributed to the protection and preservation of, and education about, Arizona’s non-renewable archaeological resources.



Joella Jean Mahoney during a Center field trip to Rock Art Ranch



The mission of the Verde Valley Archaeology Center is to preserve archaeological sites and collections, to curate the collections locally, and to make them available for research and education; to develop partnerships with American Indians, cultural groups and the communities it serves; and to foster a deeper understanding of prehistory and American Indian history in the Verde Valley through the science of archaeology.

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President's Message

Dr. James Graceffa

Once again I find myself attempting to bring our ever growing membership up to date on the happenings at the Center. You can believe that the Center is not idle.

First off, our waterline committee has been busy preparing to monitor the excavation of the waterline, unfortunately we cannot move forward as we must await the burial permit. We have applied and it has to go through a process that we cannot hurry. This includes getting the State Museum and the tribes involved. The materials are purchased and waiting to be delivered. When this project is ready to go, we will need some volunteers to help monitor the excavation. We will put the call for volunteers in our email newsletter when we are certain of dates.

Our lab continues on Thursdays and Fridays with a few dedicated volunteers. They continue to make progress on cataloging the Dyck artifacts. Beside the artifacts received by the Center from the Dyck Foundation and family, Paul Dyck had a collection of pre-reservation Plains Indian Artifacts. These were his first love. These artifacts plus some of his paintings were donated to the Cody Museum in Cody, Wyoming. I had the pleasure of visiting that museum this summer. The museum is fabulous as are the artifacts he donated. A few pictures of some of the donated artifacts are included here. If you have not been to that museum, it is a must see as it rivals the Smithsonian. There is an art section, as well as sections on Bill Cody and one on guns. They also have a Natural History wing. You need to allow two days to really enjoy the whole museum.



Our field school in Colorado starts the fourth of August. This might be our last field school in Colorado and we have no plans to run any in the Verde Valley. If you have not attended one of our previous field schools, I hope you take advantage of one of these last two. There are a few places left in both schools. Go to the website to register. Contact the Center if you have questions.



Our building committee recently met and developed a revised design that is functional and cost effective. They are also evaluating the best location for the placement of the building on the property. We are getting close to making some decisions and hope to have a tentative plan view and elevation drawings available for everyone to see by October.

I would be remiss if I did not mention the great classes we have had at the Center so far this summer. We are very fortunate to have Zach Curcija, experimental archaeologist, giving some very interesting classes on yucca cordage and argillite pendant making. These classes will continue in the summer and fall. There will be more classes on varied subjects this fall. Watch your email and visit the Center website for updates on when these classes will be given. Most are limited attendance so sign up as soon as you see them advertised.

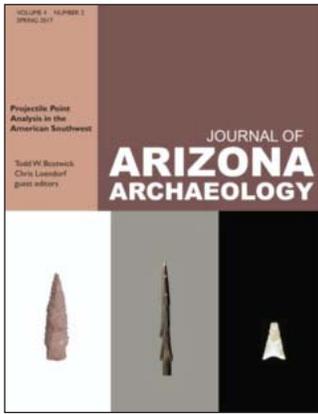
Before you know it, summer will be over and we can start looking forward to our fall and winter speaker series. These lectures are free to the public and just another benefit of being a Center member. The first lecture will be September 26th and is when we present the Annual Sherman Loy Memorial Award to someone who has gone to extremes in devoting time and energy to the preservation of archaeology in the Verde Valley and/or contributed valuable information to the database of knowledge of the archaeology of the Verde Valley.

The Center is working on a fabulous international trip coming up in February of 2018. This will be a 14-day trip and include visits to Mayan sites in Mexico, Guatemala, Honduras and El Salvador.

Continued on page 3



Projectile Point Symposium



Since its inception in 1977, the Arizona Archaeological Council (AAC) has worked as an advocate for the archaeological community in Arizona. The council has helped to address important problems in heritage management while facilitating communication within the community, and also advancing research agendas. In order to further these goals, the AAC created the *Journal of Arizona Archaeology*. The current issue includes presentations from the first day of the AAC conference held in Sedona on November 6 and 7, 2015, and co-hosted by the Verde Valley Archaeology Center. The first portion of the conference focused on projectile point research in Arizona, a topic which has long taken a backseat to ceramic analysis in the region.

The conference was organized through the efforts of Todd Bostwick, Chris Loendorf, and Eric Klucas. Ken Zoll provided valuable assistance to the organizing committee.

This is the second issue of the *Journal of Arizona Archaeology* that was based on an AAC conference co-sponsored by the Verde Valley Archaeology Center. Our Director of Archaeology, Dr. Todd Bostwick delivered a paper that presented the results of an analysis of 74 arrow shafts and 43 wooden foreshafts collected between 1962 to 1972 from a Southern Sinagua cliff dwelling in the Verde Valley on the Paul Dyck Ranch. Several of these arrows are on display in the Center.

Decorations in a variety of colors and designs were painted on the shafts in the area of fletching where three split feathers were attached with sinew wrappings. Only two foreshafts are notched for holding stone points, and most of the foreshafts appear to have been designed, or modified after breaking, to serve as wooden points.



Painted Sinagua reed arrows from the Dyck Cliff Dwelling

Meet Our Library Staff

The Center has a most interesting library, open to all members. The materials concentrate on various aspects of archaeology from ancient prehistory to the present day. Most of the materials relate to the Verde Valley and Arizona, but also from the Americas and other parts of the World.

Do you have questions about archaeoastronomy, rock art, identification of artifacts, weapons for war or hunting, Native American crafts, tools, languages spiritual beliefs or customs? Perhaps you will find the answers here - or perhaps more questions!

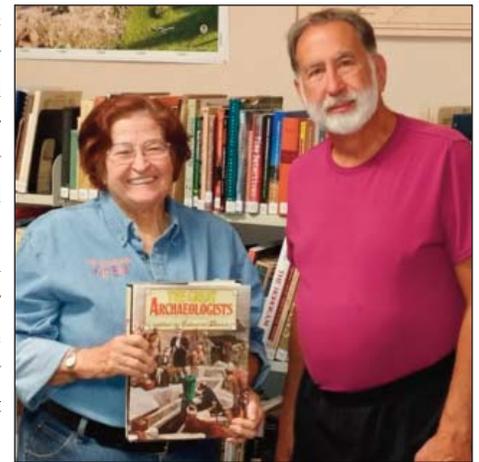
In addition to books, the library also has an extensive collection of digital articles and reports, including many Master theses and PhD

President's Message, continued

These trips are first class and have fantastic English speaking guides. Think about treating yourself to a once in a lifetime trip.

Finally, I would like to mention our annual Gala. This is our big fund raising event of the year and needs everyone's support. It will be held at Poco Diablo Resort. Invite your neighbors and friend to attend a fun evening with entertainment and a silent auction. We are still in need of auction items, and ask your support by donating an item for the auction. We are also looking for people who can help with set up, registration and monitoring the Silent Auction. If you can help, please contact the Center and leave your name and contact information and someone will get back to you.

dissertations that were written on Verde Valley archaeology. We will also be cataloging our extensive filmography of archaeology and Native American films that have been shown over the years at our annual archaeology film festivals that will allow members to check out the DVD.



The library could not have become a reality without the dedication of Louise Fitzgerald who came to us after teaching in the Massachusetts school system for 31 years. She has been a volunteer to the Center and the Society chapter in Sedona for almost 20 years. She was recently joined by Tom Cloonan. Tom moved to Cornville two years ago. He is a docent at Palatki, Honanki, V-V and the Center. For 10 years, he managed the film libraries for the University of Alaska Statewide System and now puts his cataloging training to use in the Center's library. He has helped with organizing the collection and is responsible for maintaining the digital collection.

The library receives book donations on a rather regular basis. If you have books in any of these subjects, we would be happy to accept your donations and give you a receipt for tax purposes.





The Official Nonprofit Partner of the National Park Service for Montezuma Castle and Tuzigoot National Monuments

This past January, the Verde Valley Archaeology Center (VVAC) entered into an agreement with the National Park Service (NPS) for the purpose of establishing a general framework under which VVAC will utilize NPS buildings, land and other assets to partner with the NPS to provide a quality, in-depth educational program at Montezuma Castle and Tuzigoot National Monuments.



The goal of the National Park Service Interpretation and Education program is to create learner-centered opportunities for audiences to forge personally meaningful emotional and intellectual connections with park resources, and to foster a deeper understanding of, and appreciation for the nation's intertwined natural and cultural history.

The NPS acknowledges the importance of partners to the success of its programs and seeks to embrace and better enable partners to support NPS in its critical education mission. In this regard the NPS has entered into a variety of partnerships with organizations such as the Zion National Park Forever Project, the Petrified Forest Museum Association and the Grand Canyon Association. Each of these organizations in turn established a "Field Institute" through which the cooperative educational programs of the organization are carried out. Similarly, the VVAC has established the **Verde Valley Archaeology Field Institute**. Since the VVAC has a broader mission than just the NOS, the Institute is a way to focus and manage the NPS agreement within the larger VVAC mission.

The Institute will offer archaeology classes, demonstrations and guided hiking field seminars exploring a variety of archaeological subjects such as pottery identification, prehistoric architectural and agricultural methods, and more. The primary purpose of the Field Seminars is to share the rich cultural history of the Verde Valley with residents and visitors. Visits to specific cultural sites with a trained field guide provides an educational and preservation-oriented experience. These hikes let the participants walk through the footsteps of history along the same paths that indigenous people once walked.

These field seminars are not intended to duplicate the jeep tour experiences offered in the area. Rather they are designed to be an in-depth archaeological learning experience. To further distinguish the Field Seminars we will also be visiting the Yavapai-Apache Cultural Center and four of the preserves owned by the Archaeological Conservancy that are managed by the Center. Visits to these preserves will offer a unique experience but also act as a site inspection as part of our oversight responsibilities.

The Field Seminar season will run from Labor Day through Memorial Day.

START: All seminars start at 8:30 at the Center with an overview of the day and leaves the Center promptly at 9:00.

LENGTH: About 3-4 hours

PRICE: \$125.00 per person, includes transportation from the Center. Due to hiking conditions, we cannot accept children younger than 12. Members and their guests receive the 15% member discount.

Beaver Creek Dwellings

We start our journey with a visit to the Yavapai-Apache Nation to tour their displays and to discuss their history within the Verde Valley. We continue to Montezuma Castle National Monument for discussion of life along Beaver Creek. We conclude this field seminar with an exclusive hike to the Thorny Pueblo Preserve, a property of the Archaeological Conservancy.

Oak Creek Dwellings

This field seminar visits two of the archaeological preserves owned by the Archaeological Conservancy. We start with a hike up to the Ortens Pueblo on Sugarloaf Mountain. We conclude with a visit to Atkinson Pueblo at the confluence of Oak Creek and the Verde River. This pueblo boasts the tallest original pueblo wall within the Verde valley.

Verde River Dwellings

We start this seminar with a visit to the Tuzigoot National Monument and museum. We will discuss life along the Verde River. We continue with an exclusive hike to the Haltica Pueblo Preserve, a property of the Archaeological Conservancy.

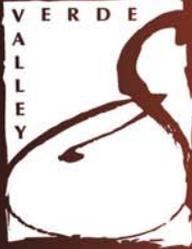
All Monuments

This field seminar visits Montezuma Castle, Montezuma Well and Tuzigoot. This tour covers the architectural features as well as the history of these monuments.

Visit the Field Institute pages on our website for additional information, including how to book a seminar. Groups of at least six can pre-arrange a specific seminar with local pick-up.



Tickets available on the Sinfonietta website beginning August 15



VERDE VALLEY
ARCHAEOLOGY
CENTER



NAKAI IN CONCERT

November 18th Concert ~ Camp Verde Phillip England Center for the Performing Arts ~ 6:00PM

November 19th Concert ~ Sedona Performing Arts Center ~ 2:30PM

A CULTURAL CELEBRATION
INTERSECTING THE PERFORMING
AND VISUAL ARTS

Kevin Kozacek, Music Director/Conductor



R. Carlos Nakai



Jerod Tate

Featuring Navajo flutist R. Carlos Nakai with percussionist William Clipman. Stunning background silent video. Celebratory Dances. Performance of orchestral works by Jerod Tate, Emmy winning Chickasaw composer, with narration by Shondra Jepperson.



Indigenous Enterprise
Champion Dancers

Concert Tickets and Backstage Passes to
"Meet & Greet the Guest Artist" are available at

www.VVSinfonietta.org

Verde Valley Sinfonietta in collaboration with Verde Valley Archaeology Center

VV Sinfonietta.org 928.282.3066

vvarchcenter.org

Funding is provided in part by these grantors



IN THE MUSEUM: FEATURED OBJECTS

Our museum collections reflect our amazing world, inspire wonder and form the foundation for scientific discovery. In each issue of the *Archaeology Quarterly* we will explore some of the objects in our collections.

A Collection of Sinagua Bows from Cist 51 of the Dyck Rockshelter

by Justin Parks, M.A.

Bowmaking along Beaver Creek

The three complete bows and fourth bow stave in production, all follow an identical construction template. The bows were 40" long, with a D-shaped or circular cross-section. The tips flatten into an oval shape closer to the tips while the very tips are triangular in cross-section. The bows were constructed from small saplings or branches approximately 3 cm in diameter.

The Dyck bows did not constitute power or a heavy reliance of time in manufacture. Rather, the bows favor characteristics to speed manufacture time based on the availability of resources. Experimental replication of the bows indicates a bow of a similar length and diameter to the Dyck bows pulls approximately 30 pounds of force. The bows would serve admirably in the collection of small game in farm fields along Beaver Creek. The storage of these bows in the rock shelter could have been to keep archery tackle near farm fields, or for use during rabbit drives. Communal rabbit drives were a common occurrence in farm fields and surrounding desert regions by the O'odham in the Sonoran Desert. The bows likely did not serve large game hunting or defensive functions based on the limited killing potential of the bows. The Dyck bows represent a tool designed for the collection of small game. Perhaps rather than hunting, it is easier to regard these bows as agricultural implements designed for pest control. Garden hunting allows for the collection of protein resources from farm fields adding a significant and under represented boost in food production. In addition, garden hunting allows children to practice archery daily, a task that is beneficial to both developing skill levels and tending the fields.

The recovery of only small dimension bows in storage cists of the Dyck Rockshelter is likely a factor related to how bows are deposited into the archaeological record. Bows placed in caches represents a common behavior of the prehistoric Southwest. A small sample of bows recovered from adult burials support the notion that larger bows that are costly to produce were placed alongside deceased adults as a burial good. Child burials with bows from Tuzigoot and the Tonto Cliff Dwellings have dimensions like

the Dyck collection bows supporting the notion the bows were used by children for small game.

Other Sinagua Bows

Approximately 20 miles to the north of the Dyck Rockshelter on another tributary to the Verde River rests the important site of Hidden House in Sycamore Canyon. A wood bow recovered from the burial of a Sinagua man represents a significant break in archery technology compared to the Dyck Rockshelter. The Hidden House bow is exceptionally longer and thicker than the bows recovered from the Dyck Rockshelter. Experimental reconstructions of the Hidden House bow indicate a draw weight of 60 pounds of force and speeds of 160 to 170 feet per second close to double the performance of the Dyck bows. The Hidden House bow likely served a different function than the Dyck bows, responsible for large game hunting and warfare activities. Warbows and rabbitbows occur side by side in ethnographic descriptions of archery technology across the Southwest.

Sample Size and an Expanded View

The comparison of bow and arrow technology between Southern Sinagua sites of the Verde Valley provide tantalizing clues into human behaviors reflecting the range of variation in equipment. The comparison of Sinagua archery technology provides a useful view into the types and purpose of archery equipment used in the Verde Valley.

Justin Parks is an experimental archaeologist currently working as a contract archaeologist in the Southwest. He holds a Master's Degree in Anthropology from Northern Arizona University. He will be our featured speaker on February 13, 2018, to discuss his Master thesis on prehistoric bow making.

Craft a Bow in the Sinagua Style of Archery November 11-12, 2017

Come join Justin Parks and learn to craft a fully functional bow in the local Sinagua style of archery. The bows you create will follow the same design features and wood species of surviving prehistoric bows of the Verde Valley area. See the Event Calendar for details.



International Archaeology Day Benefit

Theme: Our Future is the Past

October 21, 2017

Sedona Poco Diablo Resort

\$95 (\$45 tax deductible)

Reception and Silent Auction - 6:00 pm

3-Course Dinner - 7:00 pm

Fresh Baked Rolls with Sweet Butter

Premier Mixed Field Green Salad with Grapes, Candied Walnuts and Grape Tomatoes with Lemon Basil Vinaigrette

Choice of:

Grilled Salmon with Caper Dill Sauce
with Roasted Red Potatoes and Glazed Carrots

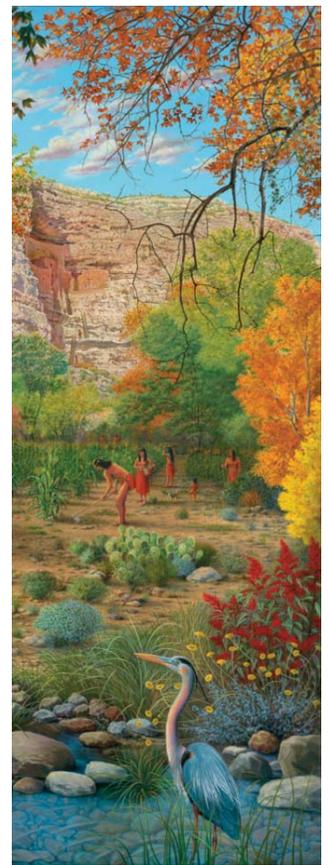
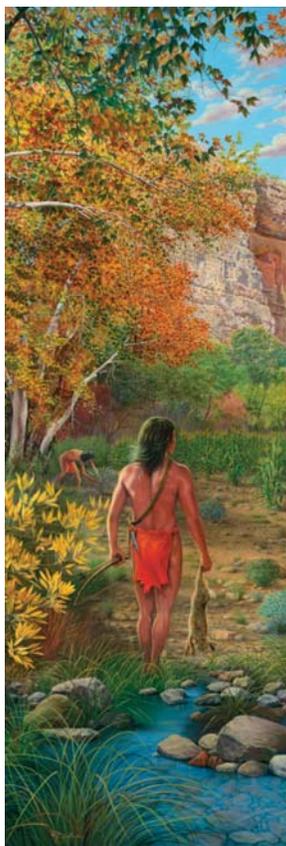
or

Tender Medallions of Beef with Caramelized Shallots and Merlot
Butters with Onion Straws Served with Roasted Red
Potatoes and Glazed Carrots

or

Vegetable Wellington with Apple Sage Sauce Served with Roasted
Red Potatoes and Glazed Carrots

Special Guest Speaker Brian Fagan



British-born and Cambridge University educated, Brian Fagan is widely regarded as the world's leading archaeological writer and has an international reputation as an author of influential books about major issues such as ancient climate change, the relationship between humans and water, past and present, and sustainability in ancient and contemporary subsistence level societies. His



books have been translated into over nine languages.

He will take us on a journey through the compelling world of our past, from early human ancestors to ancient cities and the world of the Ancestral Pueblo. He tells us why archaeology is important, indeed essential, in today's interconnected and industrialized world.

Capital Campaign Quiet Phase

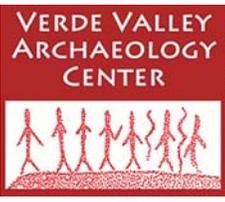
Beginning in December 2015, the Center embarked on the "Quiet Phase" of our Capital Campaign. Campaign advisors told us that you cannot go forward with a public phase unless your organization has a base of contributions that tell others that there is growing support for the campaign. Individuals not associated with an organization do not want to be the first with a contribution – people prefer to get on a "moving train." As part of this phase, the Board worked with the architect on a **Conceptual Site Plan**. The architect provided options in the form of a conceptual design sketch to visualize the project. This resulted in the drawings you may have seen which also permitted the development of a rough cost estimate that we have been using in promotional material. Our members and supporters responded tremendously by providing over \$200,000 to the Campaign to fund the property closing costs, waterline installation, Native American Heritage Pathway, and funding a variety of building features.

Capital Campaign Public Phase

The success of the Quiet Phase should demonstrate to others that this train has "left the station and is moving forward on track." The October Benefit will officially begin the Public Phase of the Campaign. The Board recently completed the process of refining the pre-design and presented this to the architect to prepare a **Schematic Architectural Design**. The Conceptual Site Plan was modified and a revised design was requested. This revised design will be presented to our builder for an accurate construction cost estimate. The Schematic Architectural Design, with front elevation, and a scale model of the campus will be unveiled at the October Benefit.

We are currently updating our **Capital Campaign Fund Development Plan**. This is a document that organizes all of our fundraising activities over the next three years. This three-year plan will include campaign dates and strategies, donor and grant tracking plans, special event details, and a targeted communication schedule. The plan will provide a clear course of action from diversified funding streams. First and foremost, the plan gets everyone within our organization, including staff, volunteers, members and board members, on the same page. It will present a clear idea of what will be expected over the next three years, as well as the anticipated results.



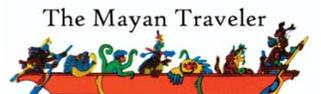


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