



# glyphs

The Monthly Newsletter of the  
Arizona Archaeological and Historical Society

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January 2016

1916-2016  
Celebrating 100 Years of Research,  
Scholarship, and Preservation

# AAHS



*Planting Hopi maize as part of the Pueblo Farming Project at Crow Canyon Archaeological Center. (Photos courtesy of Crow Canyon with permission of the Hopi Cultural Preservation Office.)*

**Next General Meeting: January 18, 2016**  
7:30 p.m.  
University Medical Center  
[www.az-arch-and-hist.org](http://www.az-arch-and-hist.org)

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## President's Message

by Jesse Ballenger

Thanks to the many volunteers who made the 2015 Holiday Party the enormous success it was. I would love to recap it for you, but I have been given a deadline of today for this missive, and the party is not until tomorrow night. It is possible that an act of God will foil the AV system or someone will choke on an olive, but barring that, I predict delicious dishes and a few courageous Research Slam contestants, resulting in a much-appreciated contribution to the Research and Scholarship Fund of 2016.



We are extremely grateful for the bequest of the late Carryl Martin, who was gracefully remembered by Alex and Madelyn Cook in last month's issue of *Glyphs*, and whose support will significantly increase the Society's impact on research and scholarship in the American Southwest. Thank you, Carryl.

I think the Society will blossom in 2016 as an exemplary model of sharing archaeology with the public in our unique environment of "pot hunters." This is tired discussion among archaeologists interested in ephemeral hunter-gatherer sites (rocks), and who have grappled with and skirted the fine line between collaboration and condemnation for decades. But it is a topic that has flared up again and will never go away. "Public" involvement can result in access to sensitive private properties and collections, cash and in-kind support, relevance, and political support for archaeological values, but also traffic and other direct impacts on highlighted archaeological sites, including rare instances of vandalism and looting. AAHS encourages and supports all forms of responsible endeavors that promise to further our understanding and appreciation for the Desert Southwest, regardless of pedigree or affiliation. This is a proud tradition I hope you will help us maintain through your continued membership, donations, and requests for funding.

## AAHS Lecture Series

All meetings are held at the Duval Auditorium, University Medical Center  
Third Monday of the month, 7:30-9:00 p.m.

- Jan. 18, 2016: R. Kyle Bocinsky, *Can Pueblo Corn Save African Farms? Employing 1,400 Years of Agricultural Knowledge in Service of the Future*
- Feb. 15, 2016: David Abbott, *It's All About Scale: Polity and Alliance in Prehistoric Central Arizona*
- Mar. 21, 2016: Debra Martin, *Hard Times in Dry Lands: Apocalypse in the Ancient Southwest or Business as Usual?*
- Apr. 18, 2016: Raymond H. Thompson, *Arch & Hist Ancestors*
- May 16, 2016: John Hall, *The Luke Solar Project: Middle and Late Archaic Period Subsistence and Settlement in the Western Phoenix Basin*
- June 20, 2016: Matthew Liebmann, *The Pueblo Revolt*



## Need Inspiration to Clean Out Your Bookshelf?

One of the activities of AAHS is to support the Arizona State Museum library through sales of donated books. We have cleaned out our backlog of books and are looking for new donations. This year, we will have a booth both at the Southwest Archaeology Symposium and at the Tucson Festival of Books. We hope to raise significant funds for the library. We are looking principally for archaeology books, but will take books in other fields as well.

Due to lack of storage and lack of interest on the part of our buyers, we do not take periodic journals except *Kiva*, textbooks, non-Southwestern theses, preliminary CRM reports, publications written entirely in languages other than English, conference materials such as programs and abstract compilations, items other than books and publications such as posters, art portfolios, and so forth. Full details are on the website—just click on "Book Donations."

## January 18: Topic of the General Meeting

### *Can Pueblo Corn Save African Farms? Employing 1,400 Years of Agricultural Knowledge in Service of the Future*

by Kyle Bocinsky

Traditional crops and farming practices are not only nutritionally, economically, and spiritually important to human communities, they are also reservoirs of resilience encapsulating generations of traditional agronomic and environmental knowledge.



Harold Polyngyumptewa and Paul Ermigiotti planting Hopi maize as part of the Pueblo Farming Project at Crow Canyon Archaeological Center. (Photo courtesy of Crow Canyon with permission of the Hopi Cultural Preservation Office.)

Can that knowledge be used to improve global food security? Using data from the MAÍS project, an experimental grow-out of 155 different traditional Pueblo maize varieties that took place in Iowa and New Mexico in 2004 and 2005, as well as a state-of-the-art maize growth model, my colleagues and I are simulating the

potential productivity of several non-irrigated Pueblo maize varieties across the southwestern United States during the last two millennia, and forecasting productivity over the next century using International Panel on Climate Change (IPCC) climate-change projections.

We are doing the same using historic weather data and future climate projections in southwestern Ethiopia. Drought- and heat-resistant Pueblo maize varieties are likely to provide a more stable and sustainable subsistence base for Ethiopian farmers than commercial hybrids currently under cultivation. Perhaps more

importantly, Pueblo farming practices—developed in the drought-prone and highly variable Southwest—may help inform adaptive shifts by subsistence farmers worldwide. I will give an update on this ongoing and exciting research, and will also highlight how this and related work is revealing macro-scalar patterns in Pueblo prehistory.

#### Suggested Readings:

Bocinsky, R. Kyle, and Timothy A. Kohler

2014 A 2,000-year Reconstruction of the Rain-fed Maize Agricultural Niche in the US Southwest. *Nature Communications* 5:5618. <<http://www.nature.com/ncomms/2014/141204/ncomms6618/abs/ncomms6618.html>>.

Kohler, Timothy A., R. Kyle Bocinsky, Denton Cockburn, Mark D. Varien, Stefani A. Crabtree, Kenneth E. Kolm, Schaun M. Smith, and Scott G. Ortman

2006 Modeling Prehispanic Pueblo Societies in Their Ecosystems. *Ecological Modeling* 241:30–41.

Kohler, Timothy A.

Talking about VEP Work. <<http://www.youtube.com/watch?v=ALuCIFTP18>>.

Webside on VEP Archaeology

<<http://www.veparchaeology.org>>.

*Kyle Bocinsky is a “computational archaeologist,” and the Director of Sponsored Projects at Crow Canyon Archaeological Center in Cortez, Colorado. Kyle recently finished a year-long postdoctoral research position at Washington State University (WSU), where he worked on SKOPE – Synthesized Knowledge of Past Environments – a tool to bring data on paleoenvironments to archaeologists and the general public. He received his M.A. and Ph.D. from WSU in 2011 and 2014, respectively, and earned his B.A. from the University of Notre Dame in 2008. Kyle’s research focuses on human-environment interactions, more specifically, how landscape and climate change impact small-scale farming communities. Since 2008, he has been a programmer and field archaeologist with the Village Ecodynamics Projects, and he has active research projects in the Southwest U.S., Ethiopia, and on the Tibetan Plateau. Kyle’s other archaeological interests include turkey domestication, visual communication, and defensiveness; he is also a downhill skier and is active in community theatre. Kyle was the recipient of the 2015 Cordell Prize at last summer’s Pecos Conference.*

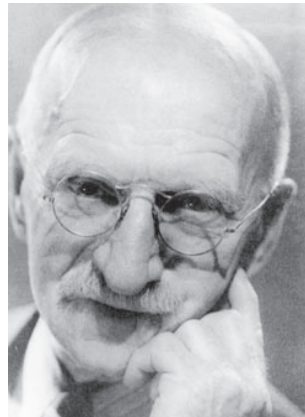
## FROM THE ARCHIVES

*In celebration of our centennial year, we will be sharing stories from the past in each month's Glyphs. This first article is drawn directly from the 50th Anniversary Kiva, edited by Bernice Johnston (Volume 32, No. 2, December 1966) – Katherine Cerino*

What is now the Arizona Archaeological and Historical Society was formed on April 14, 1916. The history of this society cannot begin without a vignette of the man whose brain child it was, Dr. Byron Cummings. Whenever one talks to or reads the words of people who knew this man, the word “love” consistently appears. Those who liked him were really devoted to him.

Byron Cummings was born in 1861 and died in 1954. He was a graduate of Rutgers, a Professor and Dean of the College of Arts and Sciences at the Universities of Utah and Arizona, Acting President and President of the University of Arizona, and the first head of the Department of Archaeology, later changed to Department of Anthropology. He was the first full time Director of the Arizona State Museum and the first President of our society<sup>1</sup>.

Professor Cummings was deeply incensed at the freedom exercised by agencies in excavating Arizona's archaeological and historical sites and removing the materials not only to other parts of our country but to other countries. His first drive to combat apathy and get people interested in preserving Arizona's antiquities for Arizonans was expressed in a letter to likely supporters in 1916. *Five expeditions from eastern museums are booked for Arizona this summer. Can the state afford to wait longer without insisting that she keep at least a share of what belongs to her here in her own museum and let her own people have a*



Byron Cummings

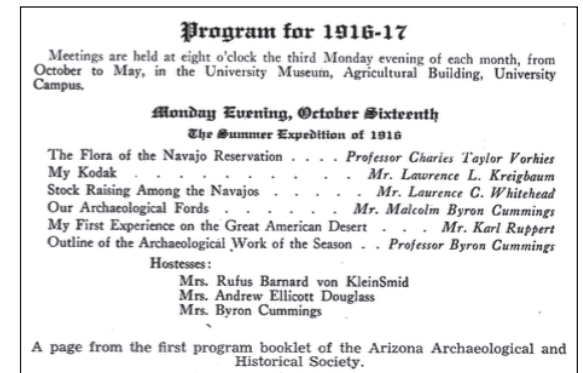
*chance to see and know something of the ancient and modern Indian culture of this region?*

He gave a series of lectures during the winter and on April 14, 1916, the Arizona Archaeological Society was organized, heavy with four Vice-Presidents<sup>2</sup>.

At that time, a defunct Historical and Archaeological Society of Phoenix agreed to merge with the new society on condition it would change its name to the Arizona Archaeological and Historical Society, and this was done. Because the Phoenix society had been inactive since 1912, funds left in its treasury were turned over to the new society and charter memberships for some of its members were secured. The letters advising of this move read *...I am hereby mailing you the minutes of the last meeting of the Historical and Archaeological Society of Phoenix at which time the spirit took flight after requesting that its mortal remains be deposited in the archives of or among the antiquities preserved by the newer society in Tucson....*

Although the Arizona State Museum was born first, it was an undernourished weakling and remained stunted until the birth of its hearty, vigorous young step-brother, the Arizona Archaeological and Historical Society. The pioneering spirit of the new society

was contagious and under the stimulation of its founder, the two striplings grew up together. Their interests and activities, under one head, made them almost inseparable and they were often mistaken for each other. They shared a deep concern for Arizona's antiquities.



<sup>2</sup>Charter members included Nelson C. Bledsoe, Robert H. Forbes, Ida W. Douglass, Senator Carl Hayden, Neil M Judd, G.E.P. Smith, and Hattie F. Solomon (K. Cerino).

<sup>1</sup>In fact, he served as President for the first 13 years of the Society's history (K. Cerino).

(continued on page 8)



(continued from page 7)

The first action of the new society and the museum was an expedition to the Navajo Reservation. Expenses for the trip were covered with \$500 from the University and \$500 from the society members. A "used Ford auto" was purchased for \$350 and in this and other vehicles, five students traveled with Professor Cummings on the first archaeological field trip....Three months were spent exploring, mapping, and excavating in Tsegi and Nitsie Canyons. They brought back 1,000 specimens of archaeological material, some ethnological Hopi items and a very tired Ford...



### Upcoming AAHS Field Trips

*Participation in field trips is limited to members of AAHS. There is generally a 20-person limit on field trips, so sign up early.*

**We are busy working on field trips for winter and spring. Stay tuned to the website for details!**

#### Presidio Santa Cruz de Terranate and Fairbank January 16, 2016; 10:00 am-2:00 pm

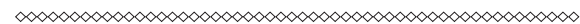
Please join us for a trip to the short-lived Presidio Santa Cruz de Terranate. Constructed in 1775 as a series of adobe buildings in a walled compound, the presidio was subject to intensive raiding. Its inhabitants suffered so greatly that Terranate was abandoned shortly thereafter. Tour guide Deni Seymour will present the tumultuous history of the use of this area and the presidio, both before and after the arrival of the Spanish. This trip also includes a visit to the nearby ghost town of Fairbank, a boomtown stop-over on the way to Tombstone and Bisbee. To register for the trip, please contact trip leader Cannon Daughtrey at [cannondaughtrey@gmail.com](mailto:cannondaughtrey@gmail.com).



*Ruins of Terranate*

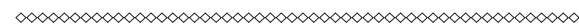
### 100TH ANNIVERSARY KIVA OFFER

In celebration of our 100th anniversary, AAHS is offering full sets of in-print issues of *Kiva: Journal of Southwestern Anthropology and History* for \$100. This offer is good only through June 30, 2016. If you need to have them shipped, they will be sent as printed matter, with an additional \$125 charge. This is quite a deal! The set can be ordered and paid for through our website store ([www.z2systems.com/np/clients/aahs/giftstore.jsp](http://www.z2systems.com/np/clients/aahs/giftstore.jsp)). If you have questions, or if you need to arrange a pick-up after payment is made, contact Sarah Herr at [sherr@desert.com](mailto:sherr@desert.com).



### Research, Travel, and Scholarship Grant Proposals Due Now

Arizona Archaeological and Historical Society makes annual Awards for Research, Travel, and Scholarship to AAHS members (professionals or avocational) who are involved in study or research in the areas of Southwestern archaeology, anthropology, American Indian studies, ethnohistory, or history. Applications will be accepted from January 1 to February 15, 2016. In 2015, AAHS funded 11 grant proposals, five for research and six for travel, totaling \$6,815. Information, application forms, and past awardees can be found at [www.az-arch-and-hist.org/grants/](http://www.az-arch-and-hist.org/grants/).



### Help Lead AAHS into Its Second Century!

The success and vitality of AAHS is due largely to the dedicated volunteers who contribute their time and talent. Annual elections for AAHS Officers and Board Members are coming up. If you are interested in participating in the Society by serving on the Board, or if you know someone you think would be a good addition to the Board, please email Sarah Herr ([sherr@desert.com](mailto:sherr@desert.com)) before the end of February. Board positions are open to all members of the Society.

## Annual Julian D. Hayden Student Paper Competition

*Sponsored by Arizona Archaeological and Historical Society  
and Arizona Archaeological Council*

The Arizona Archaeological and Historical Society and the Arizona Archaeological Council sponsor the annual Julian D. Hayden Student Paper Competition, named in honor of long-time southwestern scholar Julian Dodge Hayden. The winning entry will receive a cash prize of \$750 and publication of the paper in *Kiva*, *The Journal of Southwestern Anthropology and History*. The competition is open to any undergraduate or graduate student at any recognized college or university. Co-authored papers will be accepted if all authors are students. Subject matter may include the anthropology, archaeology, history, linguistics, and/or ethnology of the U.S. Southwest and northern Mexico, or any other topic appropriate for publication in *Kiva*.

Papers should be no more than 9,000 words (approximately 25 double-spaced, typewritten pages), including figures, tables, and references, and should conform to *Kiva* format. Please review the instructions for authors at: <http://www.maneyonline.com/ifa/kiv>.

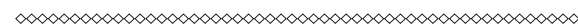
If the paper involves living human subjects, the author(s) should verify, in the paper or cover letter, that necessary permission to publish has been obtained. Previous entries will not be considered, and all decisions of the judges are final. If no publishable papers are received, no award will be given. Judging criteria include, but are not limited to, quality of writing, degree of original research and use of original data, appropriateness of subject matter, and length.

The Hayden Student Paper competition announcement and a link to past winners can also be found at: <http://www.az-arch-and-hist.org/grants/annual-julian-d-hayden-student-paper-competition/>

Deadline for receipt of submissions is January 11, 2016. Late entries will not be accepted. Email your paper to Lauren Jelinek ([laurenejelinek@gmail.com](mailto:laurenejelinek@gmail.com)) in PDF format. Should your paper exceed the file size accepted by Gmail, email Lauren and she will set up a DropBox folder for your submission. You must also include a scanned copy of your current student ID as a separate PDF.

## MOUNDS AND MIGRANTS – SPECIAL TOUR

Archaeology Southwest is partnering with Southwest Seminars to present *Mounds and Migrants: A Clash of Religions in the Lake Hohokam World*, a special six-day tour, March 19–25, 2016. The last 15 years have seen a dramatic increase in archaeological understanding of precontact migration and the Salado “phenomenon” in the American Southwest. Join Drs. William Doelle and Jeffery Clark of Archaeology Southwest and other esteemed researchers at the forefront of these recent investigations for a tour of southern and central Arizona, where you will explore the effects of this clash of Hohokam and Ancestral Pueblo ideologies. Learn more at [www.archaeologysouthwest.org/what-we-do/tours/](http://www.archaeologysouthwest.org/what-we-do/tours/), or contact Linda Pierce at 520.882.6946, ext. 23, or [lpierce@archaeologysouthwest.org](mailto:lpierce@archaeologysouthwest.org).



## SOUTHWEST SYMPOSIUM

The Southwest Symposium promotes new ideas and directions in the archaeology of the United States Southwest and the Mexican Northwest. The 2016 symposium focuses on *Engaged Archaeology*, showcasing collaborative and participatory work with descendant groups and local communities, public archaeology, and interdisciplinary work, in spoken and poster sessions. The conference will be held on the campus of the University of Arizona in Tucson, January 14–16, 2016.



The program includes two days of invited paper and poster symposia, a welcome reception at the Laboratory of Tree-Ring Research, a public session downtown Thursday evening, and a reception at the Tucson Marriott University Park, co-hosted by the Arizona State Museum and the Arizona Archaeological and Historical Society.

For more information and registration, please visit: [www.orgonline.com/builder/site/default.aspx?EventID=1655911](http://www.orgonline.com/builder/site/default.aspx?EventID=1655911).

## MAKING ARCHAEOLOGY PUBLIC: SOUTHWEST SYMPOSIUM OPENING SESSION FOR THE PUBLIC

2016 will mark 50 years since grassroots preservationists successfully worked with Congress to pass the National Historic Preservation Act (NHPA), a United States law that acknowledges the importance of our national heritage and that instructs federal agencies to be good stewards of that heritage. One effect of this law has been a massive expansion of publicly funded archaeological work carried out in advance of construction projects. This work, in turn, has resulted in tremendous new understandings of Native American and immigrant histories in the United States and its territories.

The *Making Archaeology Public Project* (MAP) is a nationwide effort to highlight just a few of the many significant insights that have come to light since the passage of NHPA. Archaeologists in each state are working within their communities to select one of the many engaging stories that have come to light and to share them with the public to celebrate the last 50 years of archaeological investigations. The ultimate goal is a website, which will include links to videos that exemplify the ways that NHPA has changed our understanding of the past.



On Thursday evening, January 14, 2016, from 7:00–9:00 p.m., Lynne Sebastian, an archaeologist and historic preservation enthusiast, will host an opening session for the Southwest Symposium ([www.regonline.com/builder/site/default.aspx?EventID=1655911](http://www.regonline.com/builder/site/default.aspx?EventID=1655911)). This panel discussion with MAPP leaders from the western states will share the national and state projects, which range from finding the first farming settlements in North America in the Tucson Basin to the way thousands of tiny projects in New Mexico tell big stories about the ancient past.

This event will be held at the Scottish Rite Temple in downtown Tucson, at 160 S. Scott Avenue and is open to the public.

## Archaeology Café

Welcome to Archaeology Café, an informal forum where you can learn more about the Southwest's deep history and speak directly to experts. Archaeology Southwest's popular program is beginning its sixth season in Tucson (on the patio of Casa Vicente, 375 S. Stone Avenue) and its second season in Phoenix (in the Aztec Room at Macayo's Central, 4001 N. Central Avenue). Presentations begin after 6:00 p.m., although it is best to arrive by about 5:30 p.m. to get settled, as seating is open and unreserved, but limited.



The program is free, but participants are encouraged to order their own refreshments. Although kids may attend with adult supervision, Archaeology Cafés are best for adults and young adults.

### *Tucson Schedule:*

March 1, 2016: *Fire, Climate and Society – Past, Present, and Future*, Christopher Roos

April 5, 2016: *Collaborative Research with Native Communities*, Maren Hopkins

May 3, 2016: *Consent and Dissent in Deep Time*, Lewis Borck

### *Phoenix Schedule:*

January 19, 2016: *Canal Irrigation Studies on the Gila River Indian Community and Modern Water-Rights Issues*, Kyle Woodson and Wesley Miles

February 16, 2016: *From Data to Digital Humanities*, Douglas Gann

March 15, 2016: *The Relationships among Social Interaction, Economics and Culture*, Matthew Peeples

April 19, 2016: *Archaeology of the Human Experience*, Michelle Hegmon

Follow AAHS on Facebook at [www.facebook.com/pages/Tucson-AZ/Arizona-Archaeological-and-Historical-Society](http://www.facebook.com/pages/Tucson-AZ/Arizona-Archaeological-and-Historical-Society)

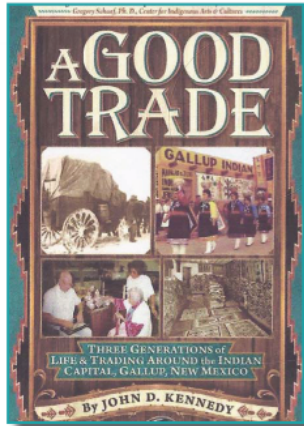


## Cornerstone

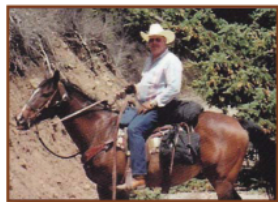
Darlene Lizarraga, Director of Marketing  
Arizona State Museum

# THREE GENERATIONS of *Life* and *Trading*

A conversation with John D. Kennedy



John D. Kennedy is passionate about his family's legacy. A native of New Mexico, he grew up in the Indian trading business, participating by the age of nine with his father, a trader at Zuni Pueblo. With wit and insight, Kennedy tells personal stories about three generations of his trading family, from 1899 to today, from horse and wagon to airplane and computer.



Kennedy is author of three trading-related books: "A Good Trade: Three Generations of Life and Trading around the Indian Capital Gallup, New Mexico," "Coyote, The Life and Times of Visionary Navajo Artist David Chethlale Paladin," and "Shalako Ceremony at Zuni Pueblo."

Friday, Jan 22, 2016

7:00 p.m. @ CESL 103

Free & Open to All  
Reception Follows Program

This is a presentation of the **Arnold and Doris Roland Distinguished Speaker Series**, made possible by the generosity of Dr. and Mrs. Roland. Reception underwritten by Friends of the ASM Collections.



Arizona State Museum  
THE UNIVERSITY OF ARIZONA

The Center for English as a Second Language (CESL) is one building east of Arizona State Museum • ASM is just inside the UA's Main Gate at Park Ave and University Blvd • 1013 E University • Garage parking available for a small fee at Euclid Ave and Second St or Tyndall Ave and Fourth St • [www.statemuseum.arizona.edu](http://www.statemuseum.arizona.edu)

## AAHS Membership Application

Membership is open to anyone interested in the prehistory and history of Arizona and the Southwest and who support the aims of the Society. Membership runs for a full year from the date of receipt, and covers all individuals living in the same household.

Monthly meetings are free and open to the public. Society field trips require membership. Members may purchase an annual JSTOR subscription to *Kiva* back issues for \$20 through the AAHS website.

### Membership Categories

- \$50 **Kiva members** receive four issues of the Society's quarterly journal *Kiva* and 12 issues of *Glyphs*
- \$40 **Glyphs members** receive *Glyphs*
- \$35 **Student Kiva members** receive both *Kiva* and *Glyphs*
- \$75 **Contributing members** receive *Kiva*, *Glyphs*, and all current benefits
- \$120 **Supporting members** receive *Kiva*, *Glyphs*, and all current benefits
- \$300 **Sponsoring members** receive *Kiva*, *Glyphs*, and all current benefits
- \$1,000 **Lifetime members** receive *Kiva*, *Glyphs*, and all current benefits

Note: For memberships outside the U.S., please add \$20. AAHS does not release membership information to other organizations.

### Institutional Subscriptions

For institutional subscriptions to *Kiva*, contact Maney Publishing at [subscriptions@maneypublishing.com](mailto:subscriptions@maneypublishing.com) or <http://maneypublishing.com/index.php/journals/kiv>. For institutional subscriptions to *Glyphs* (\$100), contact AAHS VP for Membership at the address below.

You can join online at [www.az-arch-and-hist.org](http://www.az-arch-and-hist.org), or by mailing the form below to:  
Michael Diehl, VP Membership  
Arizona Archaeological and Historical Society  
Arizona State Museum, The University of Arizona  
Tucson, AZ 85721-0026

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

E-mail: \_\_\_\_\_

#### Officers

President: Jesse Ballenger | [jamb@email.arizona.edu](mailto:jamb@email.arizona.edu) | 520.271.7083  
Vice President for Activities: Katherine Cerino | [kcerino@gmail.com](mailto:kcerino@gmail.com) | 520.907.0884  
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Communications Officer: John Hall | [jhall@srictm.com](mailto:jhall@srictm.com)  
Treasurer: Joanne Canalli | [jcanalli@email.arizona.edu](mailto:jcanalli@email.arizona.edu)

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*Glyphs*: Emilee Mead | [emilee@desert.com](mailto:emilee@desert.com) | 520.881.2244



**A A H S**



Arizona Archaeological and Historical Society  
Arizona State Museum  
University of Arizona  
Tucson, Arizona 85721-0026  
USA

## **RETURN SERVICE REQUESTED**

The objectives of the Arizona Archaeological and Historical Society are to encourage scholarly pursuits in areas of history and anthropology of the southwestern United States and northern Mexico; to encourage the preservation of archaeological and historical sites; to encourage the scientific and legal gathering of cultural information and materials; to publish the results of archaeological, historical, and ethnographic investigations; to aid in the functions and programs of the Arizona State Museum, University of Arizona; and to provide educational opportunities through lectures, field trips, and other activities. See inside back cover for information about the Society's programs and membership and subscription requirements.

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