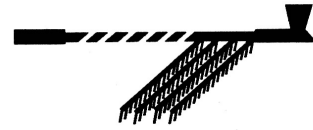


# CALUMET



Newsletter of the Indian Peaks Chapter of the Colorado Archaeological Society  
November, 2008

## CALENDAR OF EVENTS

Presentation (lecture) meetings are held in the University of Colorado Museum, Dinosaur Room on the Second Thursday of most Months, at 7:00 PM. **The public is always welcome.**

**Web Site: WWW.INDIANPEAKSARCHAEOLOGY.ORG**

- November 5** PAAC Class  
**November 6** Executive Board Meeting, 7:30PM at The Atrium  
**November 12** PAAC Class  
**November 13** **Presentation Meeting**, Cody Newton,  
Topic: The Lykins Valley Site (5LR263) Revisited  
**November 19** PAAC Class, Final Class Session  
**December 11** **Christmas Party**, 6:00PM at The Atrium  
**January 1** Executive Board Meeting, 7:30PM, Location to be determined  
**January 8** **Presentation Meeting**, Anne Philips  
**February 5** Executive Board Meeting, 7:30PM,  
Location to be determined  
**February 12** **Presentation Meeting**, Katy Putsavage, topic to be determined  
**March 5** Executive Board Meeting, 7:30PM, Location to be determined  
**March 12** **Presentation Meeting**, Speaker and topic to be determined

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## November Meeting Presentation Topic

### Protohistoric Period in Northcentral Colorado: The Lykins Valley Site (5LR263) Revisited

The Lykins Valley Site (5LR263), located in northern Larimer County, was originally excavated in 1974 by archaeologists from Colorado State University. The site contains a Protohistoric component that includes items of European or Euroamerican manufacture, and items of Native manufacture. In this paper, I present the results of my re-examination of the extant Protohistoric assemblage and recent fieldwork conducted in 2006. The assemblage and spatial data suggest a small group campsite occupied in a single event, or in a small number of consecutive annual events.

Temporal analysis of the site indicates that it was occupied shortly after A.D. 1800. This study finds that the region including Lykins Valley was not greatly affected by direct European contact until after the beginning of the 19<sup>th</sup> century; coinciding with the Fur Trade Era. The Protohistoric occupation of 5LR263 exemplifies a Native group that was fully equestrian; had integrated European technology into their culture via indirect trade good acquisition, but still relied on indigenous technology.

Cody Newton a second-year doctoral student specializing in archaeology at the University of Colorado in Boulder. Cody's research is focused on the western Great Plains and central Rocky Mountains region - specific interests include Paleoindian archaeology, post-contact Native studies, and early Historic European settlement.

## **Colorado National Monument and Colorado National Monument Association Fall 2008 Walks & Talks Series**

Come join us at Colorado National Monument for our Fall 2008 Walks and Talks. The public is invited to learn more about this beautiful area through participation in our free programs. These exciting programs cover such diverse topics as fire ecology, wildlife, geology, and astronomy.

### **Mountain Lions in Western Colorado**

**November 1, 4:00 pm. Visitor Center Auditorium**

**November 15, 2:00 pm. Visitor Center Auditorium**

Join retired archeologist and animal tracker **John Slay** in a talk about the evolution, biology, habits and habitat of the largest cats in the desert. Learn why these amazing animals are so mysterious and what adaptations help them stay hidden to survive in the desert.

### **Rocks, Bones, and Ages Lost in Time: The Wild World of Paleontology**

**November 13, 4:00 pm. Visitor Center Auditorium**

Paleontologist John Foster of the Museum of Western Colorado will give a talk on the Paleontology of the western United States.

*For pre-registration or questions call (970)858-3617 x364 or email: [Annie.Williams@nps.gov](mailto:Annie.Williams@nps.gov).*

*All events are sponsored by the National Park Service at Colorado National Monument. Support is provided by the Colorado National Monument Association, a 501(C)(3) nonprofit educational organization which helps support educational, scientific, historical and research projects at Colorado National Monument. The CNMA is a membership organization. All programs are open to the public and are free of charge. There is an entrance fee of \$7 per vehicle to Colorado National Monument. Dates and times are subject to change. Please call 858-3617 ext 306 for further information.*

## **HELP WANTED IPCAS PRESIDENT AND VICE-PRESIDENT**

IPCAS elections for Officers and Executive Board are scheduled for the November membership meeting. The current Officers and Executive Board are in urgent need of assistance in running the organization for 2009. After 5 years as President and Co-President, I am stepping down but will continue to support the chapter by remaining on the board. At this time there are no volunteers to take either President or Vice President positions for the Chapter.

Neither position requires archaeology experience, or experience as board members. There is a lot of support from experienced board members in running the chapter and to provide backup coverage when necessary.

A method of two people sharing the President position has worked very well in the past. Alternating responsibilities for introducing speakers and leading board meetings, etc. is effective if there are two people who would like to share the position.

### **Advantages to being on the executive board, whether as an officer or board member:**

- Opportunity to work with a great group of folks and get to know other members of the organization at both the chapter and state level.
- Opportunity to influence the future direction and activities for the Chapter
- Chance to personally meet the speakers and learn who's who in the local archaeological community

**The primary responsibilities of the positions, as managed by the current Officers and Board are:  
President:**

- Prepare agenda and run executive board meetings
- Primary focal point for receipt of information from other chapters and from the state organization.
- Prepare announcements and introduce speakers at general chapter meetings
- Serve as member of Board of Directors of CAS, including attendance at quarterly meetings when possible

#### **Vice-President**

- Provide back up support in absence of president
- Line up speakers (this is a shared responsibility with board)

Please consider providing support to the chapter by volunteering for one of these critical positions.

If you are able to take on either of these roles, please contact me at 303-678-8076 or via email at [cheryl\\_damon@msn.com](mailto:cheryl_damon@msn.com)

Thank you,  
Cheryl Damon  
President, IPCAS

## **University of Colorado archaeologist, colleagues hot on the trail of ancient Persian warships**

From [http://www.eurekalert.org/pub\\_releases/2004-02/uoca-uoc020304.php](http://www.eurekalert.org/pub_releases/2004-02/uoca-uoc020304.php)




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CU-Boulder's Robert Hohlfelder enters the manned Thetis submersible submarine off the northern coast of Greece last October in search of sunken Persian warships. Photos courtesy Robert Hohlfelder, University of Colorado at Boulder

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An international research team including a University of Colorado at Boulder professor has mounted a deep-water search off the northern coast of Greece in search of a fleet of Persian warships presumed lost in a massive ocean storm in 492 B.C.

The armada of warships is believed to have been sent by Persian King Darius to invade Greece, according to ancient historical accounts. The research team included more than a dozen Greek, Canadian, American and Finnish scholars.

The project is being conducted in the seas off the Mt. Athos peninsula. "This survey is the first one where scholars have searched for fleets of ancient ships using an historical source--in this case the writings of Herodotus," said CU-Boulder History Professor Hohlfelder, a senior maritime archaeologist on the project.

Herodotus, a Greek historian who lived from 485 to 430 B.C., is often called "The Father of History." His extensive writings include a report that in 492 B.C., nearly 300 ships and more than 20,000 men perished in a severe storm off Mt. Athos.

The event was said to cause Persian King Xerxes to cut a canal through the narrowest part of Mt. Athos prior to his 480 B.C. invasion of Greece to avoid the need to round the peninsula in the Aegean Sea, said Hohlfelder.

The team used sonar from the R/V Aegaeo ship of the Hellenic Center for Marine Research, the manned Thetis submersible submarine and a remotely operated vehicle known as the Achilles for two weeks last October, said Hohlfelder. But ironically, it was an octopus that proved perhaps the most useful detector.

"We were a high-tech operation, but our most useful research tool turned out to be the octopuses that lived in these waters," said Hohlfelder. One octopus living in a ceramic pot 300 feet down had dragged broken pieces of pottery, stones and a bronze spear point with part of the wooden shaft still intact into the entrance of its home.

"Happily for marine archaeologists, these animals love to collect antiquities and pull them into their homes. "Very often the first clue that a shipwreck is nearby is a pile of artifacts collected by these wonderful creatures with an antiquarian's passion for old things."



Two amphoras, tall jars with narrow necks and handles used to transport food and drink by the early Greeks and Romans and thought to have come from a shipwreck, were brought to the surface by SCUBA divers near Mt. Athos.

The researchers hypothesize a vessel likely sunk there and landed on a deep shelf, spilling cargo. The site was chosen for the first survey by the team after two local fishermen raised two Greek bronze helmets from the area in 1999.

The bronze point tentatively has been identified as a "sauroter," a bronze spike at the end of a spear. It served as a counterweight and also allowed the shaft to be stuck in the ground when it was not in use. "It could be used as a weapon of last resort if the shaft with the iron point had broken or was lost during combat," he said.

The researchers were able to get a close-up view of the spear butt-spike with the remotely operated vehicle, or ROV. As soon as it was determined to be metal, the ROV moved into position and a

mechanical arm equipped with a claw grasped onto it and the vehicle began a slow descent to the surface, Hohlfelder said.

The sauroter and the helmets found in the same area probably mark a warship in distress. "It may well have smashed into the rocky coast of Athos, spilling its contents onto a sandy shelf that sloped down to about 300 feet." Since the shelf ends abruptly and drops off into water up to 2,000 feet deep, Hohlfelder believes the rest of the ship's contents and perhaps the hull might rest there.

The team plans to add an autonomous underwater vehicle to its fleet -- built by a team member from Woods Hole Oceanographic Institution -- as well as a tow-sled with cameras and recording instruments that will be designed and built at Woods Hole in spring 2004. The next expedition is slated for June 2004, said Hohlfelder.

"Doing archaeology in such deep water is a tremendous breakthrough for researchers," he said. "In a sense it is like the two Mars rovers now searching uncharted territory in space. Arguably, our survey holds the potential to be the most important underwater archaeology project ever attempted with the promise of providing unique information about the maritime life of antiquity."

## **The Colorado Petrified Wood Sourcing Project**

Kevin Black,  
Colorado Historical Society

Stephen Kalasz,  
Centennial Archaeology, Inc.

Frederick J. Fraikor,  
Colorado School of Mines

E. Craig Simmons,  
Colorado School of Mines

Paper presented at the 6<sup>th</sup> biennial meeting of the Rocky Mountain Anthropological Conference, Estes Park, Colorado, September 20, 2003

### **Abstract**

A cooperative project is well underway between geologists from the Colorado School of Mines (CSM) and archaeologists representing the Colorado Council of Professional Archaeologists (CCPA), to collect and analyze petrified wood samples from sites in the mountains and plains of Colorado. This pilot program is in part based on promising results from an earlier study conducted by a CSM student. The objective is to conduct geochemical trace element and microscopic cell structure analyses on both cultural (debitage) and non-cultural (natural) specimens, to evaluate both the chemical variability of agatized wood outcrops and the feasibility of using geochemical signatures to identify the provenance of petrified wood artifacts.

If successful, this technique could help archaeologists identify the geographical source of petrified wood used to make flakes and tools in much the same way as is currently done with obsidian. This report will present data on the sampled localities, SEM microscopic and ICP-AES trace element results to date, and plans for additional research.

### **Introduction**

Last year, the Colorado State Historical Fund awarded a grant to the Colorado School of Mines (CSM) and the Colorado Council of Professional Archaeologists (CCPA) for a petrified wood sourcing project.

Microstructural and geochemical analyses are being conducted both to characterize petrified wood (PW) source materials and, hopefully, to match those geological signatures with artifacts from well-defined archaeological contexts.

At CSM, the research professor conducting the microstructure investigation of PW is Dr. Frederick Fraikor in the Department of Metallurgical and Materials Science Engineering. Dr. Fraikor is Director of the Colorado Advanced Materials Institute (CAMI), a consortium of industry, state government and research universities in Colorado. Dr. Hans Joachim Kleebe, Associate Professor in the Department of Metallurgical and Materials Science Engineering, and several students are assisting in this phase of the project. For the geochemical analysis, Dr. E. Craig Simmons of the Department of Chemistry & Geochemistry leads the project.

These investigators have recently conducted other archaeological materials and geochemistry research projects involving chemical analyses of petrified wood artifacts in Colorado and obsidian artifacts from South America. Working on these projects, student Janine Rowsey (2001) completed her Master's thesis two years ago in Materials Science, and another is working on her Master's degree in Geochemistry.

### **IPCAS Executive Board Meeting - Thursday, August 7, 2008**

**Meeting called to order** at 7:30 PM at the Reynolds Branch Library in Boulder.

**Attendees:** Turner, Pitre, McComb, Damon. No minutes available for May board meeting.

**Treasurer:** Account balance is \$2991.62 with several renewals and a few new members.

Speaker list filled through February but topics not yet defined.

Discussed plans for special September Chapter meeting to celebrate IPCAS Silver Anniversary. Steve Lekson behind the scenes museum tour is confirmed, as is flint-knapping demonstration by Keith Bilby. Need to assure appropriate split of attendees between tour and demonstration. Limited number of attendees will go behind scenes, to be decided by drawing names. Will also provide prize for longest membership in IPCAS. Refreshments will include cake and pot-luck appetizers. Turner will write short article for Calumet about Sept meeting.

Approved expenditure for website of \$186 to maintain site for 2 years. Reimbursement is to be sent to Cyndi Cree. Need to find out if there is additional charge for registration of domain name (per Cyndi, next payment due is in Feb 2010.)

**Meeting adjourned** at 8:45 PM  
Cheryl Damon, IPCAS President  
Secretary Pro Tem

## 2008 IPCAS Officers, Board Members, and major functions

President	Cheryl Damon	(303) 678-8076	<a href="mailto:cheryl_damon@msn.com">cheryl_damon@msn.com</a>
Vice-President	Open		
Treasurer	Katherine McComb	(303) 666-7448	<a href="mailto:kmccomb@comcast.net">kmccomb@comcast.net</a>
Secretary	Open		
Professional Advisor	Dr. Robert Brunswig	(970) 351-2138	<a href="mailto:robert.brunswig@unco.edu">robert.brunswig@unco.edu</a>
Professional Advisor	Pete Gleichman	(303) 459-0856	<a href="mailto:pjgleichman@yahoo.com">pjgleichman@yahoo.com</a>
PAAC Co-Coordinator	Cecil Fenio	(303) 442-4869	<a href="mailto:cfenio@hotmail.com">cfenio@hotmail.com</a>
PAAC Co-Coordinator	Anne Robinson	(720) 890-3944	<a href="mailto:annerco@yahoo.com">annerco@yahoo.com</a>
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Archivist/Librarian	Kris Holien	(970) 586-8982	<a href="mailto:kjholien@aol.com">kjholien@aol.com</a>
Board Member	Peg Finucane	(303) 444-5912	<a href="mailto:pfinucane@co.boulder.co.us">pfinucane@co.boulder.co.us</a>
Board Member	Rick Pitre	(303) 673-0272	<a href="mailto:rpitre9@yahoo.com">rpitre9@yahoo.com</a>
Board Member	Joanne Turner	(303) 494-7638	<a href="mailto:joanne.turner@colorado.edu">joanne.turner@colorado.edu</a>

### MEMBERSHIP APPLICATION - INDIAN PEAKS CHAPTER

**Individual** \$28.50 / Year       **Family** \$33 / Year       **Student** \$14.25 / Year

**New**       **Renewal**

**Tax-Exempt Donation**  \$10,  \$25,  \$50, **Other** \_\_\_\_\_

**NAME** \_\_\_\_\_ **TELEPHONE** (\_\_\_\_) \_\_\_\_\_

**ADDRESS** \_\_\_\_\_ **E-MAIL** \_\_\_\_\_

**CITY** \_\_\_\_\_ **STATE** \_\_\_\_\_ **ZIP** \_\_\_\_\_

Please make check payable to: Indian Peaks Chapter, CAS

Mail to: PO Box 18301, Boulder, CO 80308-1301

I(We) give CAS permission to :

Yes  No  disclose phone numbers to other CAS members

Yes  No  publish name/contact information in chapter directory

Yes  No  publish name in newsletter (which may be sent to other chapters, published on the internet, etc.)

#### CODE OF ETHICS

As a member of the Colorado Archaeological Society, I pledge:

To uphold state and federal antiquities laws. To support policies and educational programs designed to protect our cultural heritage and our state's antiquities. To encourage protection and discourage exploitation of archaeological resources. To encourage the study and recording of Colorado's archaeology and cultural history. To take an active part by participating in field and laboratory work for the purpose of developing new and significant information about the past. To respect the property rights of landowners. To assist whenever possible in locating, mapping and recording archaeological sites within Colorado, using State Site Survey forms. To respect the dignity of peoples whose cultural histories and spiritual practices are the subject of any investigation. To support only scientifically conducted activities and never participate in conduct involving dishonesty, deceit or misrepresentation about archaeological matters. To report vandalism. To remember that cultural resources are non-renewable and do not belong to you or me, but are ours to respect, to study and to enjoy.

Signature: \_\_\_\_\_ Signature: \_\_\_\_\_