

Antiquities Centennial Data Call

1. Antiquities Centennial Projects Using Volunteers and Requiring Partners/Sponsors: Please identify on-the-ground cultural and paleontological projects you would like to implement with the use of volunteers as part of the Antiquities Centennial in FY2006. Projects could include stabilization, installation of protective barriers, interpretive development, and other activities. To accomplish this, please complete the fill-in form available at <http://web.wo.blm.gov/surveys/wo600/volreq.htm> for each project. The fill-in form requires that you describe the project and list the materials, supplies, and professional expertise needed to complete the project. The information provided on each project will be used to compile an opportunities catalog for use in seeking partner/sponsor support at the national and local levels. For example, the opportunities catalog will be used at the national level to solicit support from “Take Pride in America” national partners. It could also be used at the State level to invite support from local entities. It will not, however, be used as a volunteer recruitment tool.

2. Virtual Exhibits. Please identify any virtual (web-based) exhibits you have developed or will develop by FY2006 that focus on archaeological or paleontological collections, or on specific historic, archaeological or paleontological sites. Use the following example as a format:

Virtual Exhibits of Collections or Sites

Office	Subject of Virtual Exhibit	Heritage Resources Featured	Already Posted on Website?
Tucson	BLM archaeological collections curated at Arizona State Museum	Collections from the Silverbell Mission Mine District and the Santa Cruz County Courthouse Site Complex	Will be on Arizona State Museum website by end of FY2004
Safford	Graham County Historical Society Museum, Thatcher, AZ	Fossils from 111 Ranch ACEC	Yes, on BLM Cultural Heritage Program Website

3. Research Projects. Please provide a description, not to exceed one page, of current research projects that are being conducted on BLM lands or using BLM heritage resources (e.g., archaeological or fossil collections). Include one or two digital photos for each project, sent separately. An example is provided below.

EXPERIMENTAL LASER SCANNING OF PREHISTORIC ROCK ART IN THE AGUA FRIA NATIONAL MONUMENT, ARIZONA

Project Description and Objectives. BLM's Agua Fria National Monument (AFNM), in partnership with Arizona State University's Deer Valley Rock Art Center (DVRAC), is supporting research to conduct experimental laser scanning of prehistoric rock art. The research will use three-dimensional (3D) laser scanning, a relatively new and innovative method of rock art recording. The study will evaluate the suitability of this technology to digitally record rock art and its environmental context. The study will also evaluate whether laser scanning can help determine age differences among rock art elements at a particular location.

An additional objective of the study is to compare the cost effectiveness, efficiency and accuracy of alternative recording methods including (1) traditional approaches using 35 mm photography and drawings from string grids or related tools; (2) digital photography with measurements obtained from images stored in a computer database; and (3) high-resolution laser scanning and 3D modeling.

In 2003, the DVRAC and the AFNM established a partnership to document, research, and protect the large number of impressive rock art sites in the national monument. DVRAC staff and volunteers have contributed more than 1,500 hours in the documentation and analysis of rock art at the Baby Canyon Pueblo. Volunteers from the Arizona Archaeological Society have also recorded a number of rock art sites. These efforts have sparked the creation of a new organization, the Arizona Rock Art Coalition, where members meet several times a year to discuss recording techniques and methodological issues.

Study Methods. The study will take place at the Badger Springs site (AZ N:16:180 (MNA)) and the Arrastre Creek site (AZ N:16:70 (MNA)). Both sites contain petroglyphs, the type of rock art produced by pecking images into the surfaces of rock outcrops and boulders. Volunteers from the Arizona Archaeological Society have recently documented rock art at both sites using traditional, labor-intensive recording methods. Two of these volunteers have also developed a computerized database from digital photography at the Badger Springs site. They are determining how useful it is to take various measurements directly from the photographs. These volunteers plan to participate in the work at the Arrastre Creek site. The previous recording efforts will provide important data for the laser scanning tasks, as well as useful information for comparing the recording methods.

Laser scanning instruments will be used to record the majority of individual rock art panels at the Badger Springs site. The scanning tasks at the Arrastre Creek site, which is much larger and more complex, will focus on specific collections of panels within the site. Scanning tasks will be conducted during both daytime and nighttime hours to evaluate differences in utility and accuracy. All panel locations will be geo-referenced to allow horizontal grid coordinates and elevations to be obtained from the data.

Want to Learn More? For more information about this research project, contact Dr. Connie Stone, Bureau of Land Management, Phoenix Field Office, 21605 North 7th Avenue, Phoenix, AZ 85027; email: Connie.Stone@blm.gov. Attachment 3-2

4. **Site Steward Programs.** Please describe (in one paragraph) active Site Steward programs in your State, along with any website links.

5. **Avocational Groups.** Please provide a list of avocational groups that are active in your State, along with any website links.

6. **Resource Explorers.** Please list the name(s) of any BLM cultural resource specialist(s) or paleontologist(s) who could be profiled as a “Resource Explorer.” These “Resource Explorers” could be involved in research on the public lands, Section 106 compliance, working with volunteers and partners, museum work, educational outreach, or the myriad other tasks that BLM archaeologists, historians, and paleontologists perform that are of interest to the public.

7. **State Archaeology Week/Month Events.** Please provide a web link, if possible, to State Archaeology Week/Month events planned within the next 12 months.

8. **Featured Heritage Site.** It is our intention to highlight a different BLM heritage (archaeological, historic, or paleontological) resource each quarter beginning with the first quarter of FY2005 (October-December 2004). We intend to rotate the featured site among all 12 BLM States over the course of the next three fiscal years. We are particularly interested in presenting sites that offer as many of the following as possible: educational materials for teachers and/or students; volunteer opportunities; ongoing scientific research; and heritage-tourist attractions.

We ask that you please tentatively identify a feature site for your State in the table below; the table should be returned as part of your response to this IB. Please be sure to provide the name and telephone number of a contact person for that site; as your State’s quarter approaches, WO-240 will work directly with the site contact person to develop narrative materials for the feature. States will be featured in the following order:

<u>STATE/FISCAL YEAR/ QUARTER</u>	<u>SITE NAME</u>	<u>SITE CONTACT NAME/ TELEPHONE</u>
----- FY 2005 -----		
<u>Arizona—Quarter 1</u>		
<u>Oregon—Quarter 2</u>		
<u>Idaho—Quarter 3</u>		
<u>New Mexico—Quarter 4</u>		
----- FY 2006 -----		
<u>Alaska—Quarter 1</u>		

<u>Utah—Quarter 2</u>		
<u>Montana—Quarter 3</u>		
<u>Colorado—Quarter 4</u>		
----- FY 2007 -----		
<u>Wyoming—Quarter 1</u>		
<u>California—Quarter 2</u>		
<u>Nevada—Quarter 3</u>		
<u>Eastern States—Quarter 4</u>		