



# Society for California Archaeology Newsletter

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September 1998

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## Substrate

*Newsletter 17(2-3):1 (August 1983):*

### How We Dug Our Own Hole

*"Californians tend not to be aware of, or take much heed of, useful models being developed, and problems being grappled with, elsewhere...California becomes a sort of independent laboratory for the study of problems in archaeological management. If something is going to happen, one can pretty much expect it will happen first in California. Because of your relative isolation, such events can be observed under somewhat controlled conditions, and the rest of us can figure out strategies for dealing with them. On the other hand, we remain in a state of constant nervousness about what "those California wackos" may do next."*

- Thomas F. King

## Use Of The Global Positioning System To Document Cultural Resources

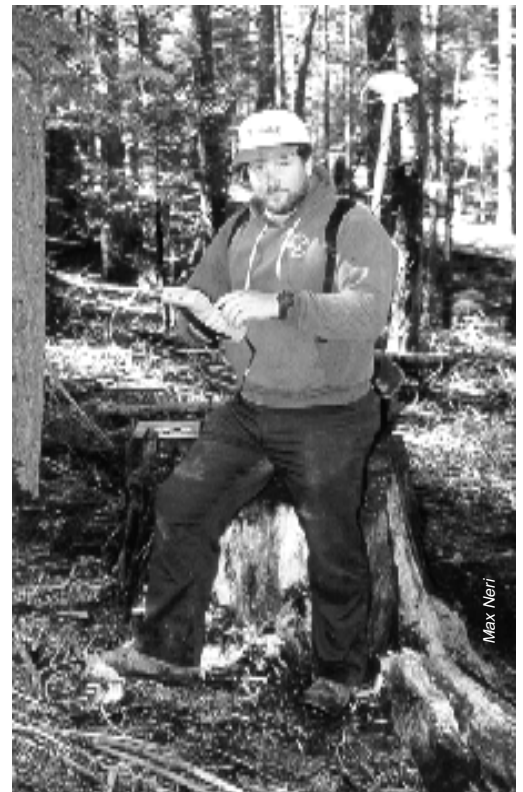
*Max Neri*

Accurate spatial documentation is critical to the effective interpretation and analysis of cultural resources for both research and resource management purposes. To this end, the increasing use of the Global Positioning System (GPS) in the documentation of archaeological resources is proving to be an efficient and extremely accurate method of collecting both spatial and descriptive data.

### How GPS Works

The GPS is a satellite-based radio navigation technology developed and maintained by the US Department of Defense. It consists of a constellation of 24 satellites in sun-synchronous orbit that continually broadcast locational data, providing all-weather capability, 24-hour operation, and worldwide coverage.

Any GPS unit operating autonomously, regardless of type, is only accurate to 100 meters 95% of the time when not differentially corrected (generally accurate to around 30 meters). This is due to two primary limitations, selective availability, which is internationally introduced by the US government for security reasons, and interference from the ionosphere and troposphere that causes smaller but additional inaccuracies. These inaccuracies are rectified through the process of *differential correction*, which can be accomplished in real-time (in the field) with a differential correction signal, or through post-processing of the data using a commercially available software program. In either case, the uncorrected data obtained with the rover unit is compared with temporally synchronous measurements from a fixed base-station for which the exact location is known, and the resulting measurement used to correct the rover data.



*Jeff Hamilton demonstrates the use of a typical mapping grade (sub-meter) receiver.*

*(continued page 11)*



A quarterly newsletter of articles and information essential to California archaeology. Contributions are welcome. Lead articles should be 1,500-2,000 words. Longer articles may appear in installments. Send submissions as hard copy or on diskette to: SCA Newsletter, Department of Anthropology, CSU Chico, Chico CA 95929-0400 or as e-mail or attachments to:

<gwhite@faculty.csuchico.edu>

The SCA Executive Board encourages publication of a wide range of opinions on issues pertinent to California archaeology. Opinions, commentary, and editorials appearing in the Newsletter represent the views of the authors, and not necessarily those of the Board or Editor. Lead article authors should be aware that their articles may appear on the SCA web site, unless they request otherwise.

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#### Newsletter Deadlines

*For Issue* ..... *Deadline*  
March ..... February 1  
June ..... May 1  
September ..... August 1  
December ..... November 1

#### Calendar Submissions

Donna Day, Tahoe National Forest, P.O. Box 6003,  
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#### Advertising Rates

1/2 column or less ..... \$40  
1/4 to 1/2 page ..... \$70  
1/2 to full page ..... \$125

Ads that run three or more consecutive issues receive a 15% discount.

# Society for California Archaeology Newsletter

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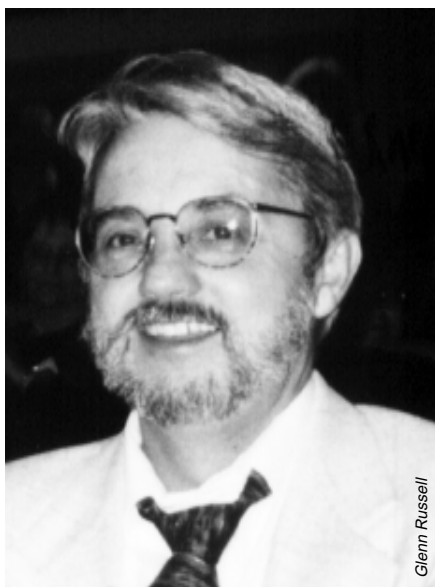
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## From the President

I hope the summer of 1998 has been fruitful and enjoyable for all members of the Society. The SCA Executive Board, as well as the many committee members and volunteers, have been busy over the summer dealing with Society business. Immediately after the June Board Meeting, we teamed up to formulate comments to the California State Resources Agency regarding proposed revisions to the CEQA Guidelines. The conduct of projects under CEQA will change as a result of the Resources Agency's actions. Lynn Dunbar and Mike Moratto, in particular, are to be commended for their efforts in producing a timely response on behalf of the SCA. Many other individuals were also very helpful in this important issue. The Society must become more active in responding to governmental actions with potential effects on the practice of Archaeology. I urge members to be vigilant at the local level in a concerted effort to effect positive initiatives for historic preservation.

The SCA Executive Board has been giving mindful consideration to the infrastructure of the Society, with emphasis on the duties of the various offices and committees. We certainly welcome the suggestions of all members concerning how to make the SCA operate more efficiently and more effectively. Currently, the



Glenn Russell

duties of the Treasurer and the Business Office Manager and the Society fiscal year are under careful scrutiny; look for some well-researched changes to be brought before the membership in the months ahead. Similarly, the work of each committee should be reevaluated to look for ways to improve on the product. Nancy Fox, the SCA Coordinator for California Archaeology Week, has asked the Board to consider some important changes in its operation. I urge members to contact Nancy or the Board with ideas for California Archaeology Week and interest in volunteering to produce an event. California Archaeology Week represents a highly significant



program, in particular, for its potential to reach the general public throughout the state with information on Archaeology and historic preservation. I hope all practitioners of Archaeology feel an obligation for public outreach; certainly, the general public has the interest to learn more about California's heritage.

Please keep in mind the upcoming meetings sponsored by the SCA. They include the Southern Data-Sharing Meeting on October 10th in Santa Barbara, the Northern Data-Sharing Meeting on October 24th in Sacramento, and the 1999 Annual Meeting on April 22-25 in Sacramento. Consult the *Newsletter* and SCA Website for more details. I urge members to attend and to participate

as presenters. All of us benefit from hearing about new research and sharing the results of our work.

Many more important issues are facing our organization at this time. I will continue to discuss them in future messages in the *Newsletter*. I hope members of the Society will feel free to contact me or other Board Members and committee members to discuss concerns about various issues facing Archaeology in California. Remember, also, our organization functions better as more members become involved!

— Michael Sampson

### SCA Executive Board 1997-98

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## SCA Business and Activities

### My Book

*by Josh*

*I won a contest at school.*

*My picture was a submarine.*

*It was cool.*

*Phyllisia won too.*

*It was designs.*

*I like the other people too.*

*I got a poster because I won.*

*I got a book with all the people too.*

*Alex won last year.*

*She was the only one.*

*I like everybody in my class.*

*I hope I win the contest next year.*

*I got my book from my teacher.*

*I got to read my book to the office too.*

*I like my book.*

*It is special to me.*

*My book is white.*

*Phyllisia's is white too.*

*I said I want to win, and I won.*

*Phyllisia didn't know that she was going to win.*

*I like my book. It has 20 pages.*

Dedicated to Mrs. Ritter's First Grade Class

Blossom Hamusek, who sent this to the Newsletter, received this poem from one of the first grade winners of the Archaeology Week Bookmark Contest. The student's name is Joshua Padgett, a first grader from Cottonwood (Evergreen Elementary School). "Mrs. Ritter" is Pat Ritter, wife of Dr. Eric Ritter, Archaeologist for BLM, Redding Resource Area.

### EXECUTIVE DEPARTMENT STATE OF CALIFORNIA



#### A PROCLAMATION by the Governor of the State of California

**WHEREAS**, California's culturally rich and diverse history is represented by numerous archaeological and historic sites throughout our state; and

**WHEREAS**, preservation of these sites provides everlasting educational and cultural benefits for all, and all Californians must be concerned that they are not damaged and destroyed; and

**WHEREAS**, many Californians volunteer their time to preserve and protect our unique archaeological and historical resources; and

**WHEREAS**, the society for California Archaeology has joined with federal, state, and local officials, local archaeological societies and private citizens to enhance public awareness of the need for protecting our cultural heritage and archaeological sites by sponsoring the Seventh Annual California Archaeology Week; and

**WHEREAS**, this year, Archaeology Week will again be celebrated in conjunction with National Preservation Week by all those dedicated to the preservation of our state's past and the special scholarship that details California's history;

**NOW, THEREFORE, I, PETE WILSON**, Governor of the State of California, do hereby proclaim May 11-17, 1997, as California Archaeology Week in California and encourage all citizens to participate in activities to promote the preservation and learning of California's past.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 40th day of April 1997

*Pete Wilson*  
Governor of California

ATTEST:

*Bill Jones*  
Secretary of State



*The Governor's Proclamation in Support of Archaeology Week, 1998*

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*Committee Reports*


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## Archaeology Week 1998

*Beth Padon*

Many of you participated in SCA's Archaeology Week 1998. The SCA Executive Board and the Archaeology Week Committee thank you all for your time and good efforts. Each year we have more events, more different types of events, and more success stories to share about how the public views archaeology.

We also thank our sponsors this year; they make Archaeology Week possible. The 1998 sponsors include: the US Department of Interior, the Bureau of Land Management, California State Office; the US Department of Agriculture, Forest Service, Pacific Southwest Region; the California State Department of Parks and Recreation, Office of Historic Preservation; the US Department of Interior, National Park Service; and the California Department of Transportation.

A special thanks to Christian Gerike, who worked with the Governor's office to obtain this year's Governor's Proclamation on Archaeology Week. We have included it in this newsletter for everyone to appreciate (see facing page). We also thank Blossom Hamusek, who engineered the bookmarks for 1998. They continue to delight many people, including librarians, teachers, and museum docents. Thanks also to Thad Van Buren for managing our poster production. Thad has served as poster coordinator for the past several years, with great results.

The SCA Archaeology Week posters are becoming collector items now, and the SCA business office still has a few from past years. Posters signed by the artist are \$10 each, while unsigned ones are \$5. Call

Kristina Roper at the business office for more information.

It is not too soon to start planning an event for Archaeology Week 1999. Please contact Nancy Fox, the new coordinator for Archaeology Week, with your ideas, support, and events. Nancy Fox can be reached at the Education Department, Los Angeles County Natural History Museum, 900 Exposition Blvd., Los Angeles, CA 90007, (213) 763-3335, nfox@nhm.org. She is already working towards a great California Archaeology Week 1999.

## Education Committee Project Archaeology Update

*Anne Stoll*

Project Archaeology — what is this all about, anyway? You've been hearing Mary Manieri, Mary Gorden and me talk about this for a few years now. Project Archaeology is a DOD-funded BLM program designed to provide teachers with training and materials to help them teach about the concepts and issues in archaeology. The long-term goal is to promote archaeological awareness and the preservation of cultural resources. A few years back, the SCA entered into a partnership with and received a grant from BLM to do two things: 1) create three California Student Handbooks which are supplements to the Project Archaeology teaching guide for teachers that summarize California prehistory for three areas of the state and 2) hold two Facilitator workshops to teach the use of these materials. OK, so the first part is just about complete now. Thanks to over 3000 hours of volunteered effort by over 100 avocational, professionals, teachers, and Native Americans across the state, and with much help from BLM, the three Student Handbooks have been written and are in production. They are amazing creations, full of stories, illustrations, games, lesson

plans, historic photographs — even original music! The SCA should be justly proud of our accomplishment. Now we are working on the second phase. Two three-day Facilitator workshops are scheduled for this September. The first will be held at Lemoore Naval Air Station on Friday, Saturday, and Sunday September 18, 19, and 20. The second will be held September 25, 26, and 27 either at the Twenty-nine Palms Marine Corps Air/Ground Combat Center or at Joshua Tree National Park HQ. Attendance, which is free, is limited to 40. The workshops will be conducted by BLM's Project Archaeology training staff, Megg Heath and Jeannie Moe. All classroom and support materials will be provided. At this time (7/98), there are still spaces available in both workshops. We are especially looking for archaeologists and teachers who will sign up as pairs and who will use the area-specific California supplement to conduct their own teacher workshops. For more information or to sign up for the Lemoore workshop, contact Mary Gorden at (209) 597-2373. For the 29 Palms workshop, contact Anne Duffield Stoll at (909) 621-7521 or Mike Mitchell at (760) 251-4821. These are the ONLY Facilitator workshops being planned, so here's your chance!

## Call for Papers and Sessions 1999 SCA Annual Meeting

*Kathleen L. Hull, Program Chair*

The 33rd Annual Meeting of the Society for California Archaeology will be held Friday April 23 through Sunday April 25, 1999 at the Red Lion's Sacramento Inn, 1401 Arden Way in Sacramento. This central and convenient location promises to attract a large portion of our membership to the meetings, which should be both stimulating and informative. The meetings will include organized thematic and/or area symposia, forums, workshops, general sessions

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## SCA Business and Activities

### SCA Committees 1998-99

Archaeology Week Representative  
 ..... Nancy Fox (213) 763-3335  
 ..... e-mail: nfox@nhm.org

Annual Meeting, 1999  
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 Arrangements ..... Bill Hildebrandt (530) 756-3941  
 ..... Kelly McGuire (530) 756-3941

Avocational Society Representatives  
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 ..... Myra Herrmann (619) 222-1881

Curation Representatives  
 ..... Lynne Christenson (619) 594-2305  
 ..... Andy Yatsko (619) 545-1131

Development  
 ..... Tom Origer (707) 792-2797

Easements  
 ..... Trudy Vaughn (530) 224-0515

Education Committee  
 ..... Mary Gorden (209) 597-2373  
 ..... Anne Duffield-Stoll (909) 621-7521

Heritage Task Force Representative  
 ..... Thad Van Buren (916) 653-1427

Information Center Advisory Group  
 ..... Mary Manieri (916) 739-8356

ISTEA Advisory Council Representative  
 ..... Paul Chace (714) 540-0800

James Bennyhoff Memorial Fund  
 ..... Terry Jones (916) 653-0516

Legislation  
 ..... Lynn Dunbar (916) 448-1892

Local and Regional Planning  
 ..... Laurie Warner (916) 874-7914

Membership  
 ..... Tom Wheeler (916) 332-1508

Native American Programs  
 ..... Phil de Barros (619) 484-3478

OHP Liaison  
 ..... Sandra Elder (916) 653-0877

Proceedings  
 ..... Judyth Reed (760) 371-1320

Publicity  
 ..... Kerstine Johnson (818) 388-8363

Resource Banking Task Force  
 ..... Jim Woodward (916) 323-0964

SCAnet Webmasters  
 ..... Kristina Roper (209) 224-0201  
 ..... Steve Dondero (916) 653-8117

SHA Liaison  
 ..... Rebecca Allen (916) 563-7800

of contributed papers, and poster sessions. This varied format will provide for traditional research presentations and information exchange, as well as more informal discussions and hands-on participation and learning. The institution of such alternate venues in recent years has proven particularly useful and thought-provoking. As noted in the June *Newsletter*, several sessions are already in the planning stages. These include a forum on the affects of fire on obsidian; symposia on Gold Rush archaeology, Department of Defense cultural resources management, zooarchaeology, and the Sierra Nevada; and an archaeological education workshop. In addition, initial efforts for a plenary session on the use of ethnography in California archaeology are underway, and there have been several suggestions for field trips highlighting Native and non-Native archaeology in the Sacramento and greater Delta region. Your participation in the annual meeting is encouraged, and forms for submittal of paper, session, and poster abstracts are included (pp. 15-17).

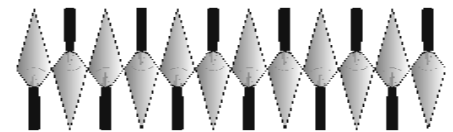
The deadline for session (symposium, forum, workshop) abstracts is October 15, 1998, while symposia paper, contributed paper, and poster abstracts are due December 31, 1998. In response to participant feedback on past annual meetings, the submission forms have a space for preferred presentation length of either 15 or 20 minutes. For workshops and forums, however, discussants may require only 5 to 10 minutes for a formal presentation. Different venues may facilitate presentations of various length and, to the extent possible, preferred presentation lengths will be incorporated into the program schedule. Please remember that scheduling conflicts necessitate limiting all participants to just two papers and/or discussion presentations, so anticipate and plan your participation carefully. I know that it is often difficult to think ahead to April when it is only now just September, but ideally, you have found inspiration in recent summer

fieldwork or ongoing collaborative efforts with colleagues throughout the state and abroad that you will want to share at the annual meeting. The northern and southern Data Sharing Meetings in October can also serve as a preliminary platform for identifying and/or meeting with potential symposium or forum participants, so consider using those opportunities to finalize your annual meeting plans. Deadlines for submissions will be strictly adhered to, so please submit your abstracts soon, either on the forms provided or via the SCA website <<http://www.scanet.org>>. The website will also have updated information on the preliminary program as it develops.

For more information, contact:

Kelly McGuire/Bill Hildebrandt,  
 Local Arrangements Chairs, Far  
 Western Anthropological Research  
 Group (530)756-3941

Kathleen L. Hull, Program Chair  
 Dames & Moore 60 Declaration  
 Drive, Suite B Chico, California,  
 95973 (510)465-4962 e-mail:  
[hull@qal.berkeley.edu](mailto:hull@qal.berkeley.edu).



### Secretary's Report

## Minutes of the June 6, 1998 SCA Executive Board Meeting

*Rebecca Apple*

The Society for California Archaeology (SCA) Executive Board Meeting was held at the California Department of Parks and Recreation Office, Mission Valley, San Diego on Saturday June 6, 1998. Mike Sampson

## SCA Business and Activities

(President) called the meeting to order at 9:30 a.m. Present at the meeting were Lynn Gamble (Immediate Past President), Tom Origer (President-Elect), Kathy Dowdall (Treasurer), Mark Basgall (Northern Vice President), Kristina Roper (Business Office Manager), and Rebecca Apple (Secretary). Steve Horne (Southern Vice President) did not attend.

First item of business was approval of the Minutes from April 11, 1998. Sampson moved that the Minutes be approved and Roper seconded the motion. It passed unanimously.

The Business Office report was provided by Roper. The process of membership renewals is proceeding well, although sales of items such as the mugs have been slow.

Dowdall distributed the Treasurer's report and check register. The report does not include the 1998 Annual Meeting, except for some seed money. Collection of membership dues is going well. However, Roper noted that there are around 200 members that have not renewed.

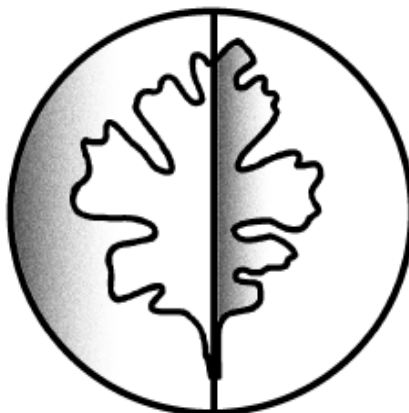
Sampson reported on the past and future Annual Meetings. All the bills for the 1998 meeting are paid except the hotel. Gamble suggested that for future meetings there needs to be a report from the Local Arrangements Committee about what they are planning on spending, and there should be more communication between the Executive Board and the Local Arrangements Chairperson to warn them of potential pitfalls. The discussion also addressed the travel costs for the keynote speaker and suggestions regarding keynote speakers for the upcoming years. Status reports were provided for Annual Meetings in 1999, 2000, and 2001. The dates for 1999 meeting in Sacramento are April 22-25.

Gamble noted that the Annual Meeting this year was great with various group sessions: Chinese

symposium, Baja symposium, and the Native American workshop. These sessions brought a lot of people to the meetings.

At 10:40 the Board took a 15 minute break.

Sampson passed out a letter from Greg White (*Newsletter* editor) covering ideas White had for the *Newsletter*. White's first two items dealt with his schedule, editing of the *Newsletter*, and producing the *Newsletter* as an Adobe Acrobat file. Overall response to the new format had been positive. The third item was the lack of ethical or political issues. Suggestions were made about addressing the standards issue and including topical articles on California Archaeology.



Current advertising rates in the SCA *Newsletter* were discussed, as well as ways to increase the number of ads. Basgall suggested a Corporate membership to SCA. It could include for instance, a set amount of advertising, the *Newsletter*, *Proceedings*, and a mug. A discussion of existing membership categories and potential new categories followed. Basgall offered to draft a proposal outlining the idea of a Corporate membership for the Board.

Roper inquired about putting the *Newsletter* on the SCA website. A motion was made that the entire *Newsletter* be put on the web, PDF downloadable. There was a discussion of several topics related to this, including the need to obtain author permission. Roper noted that this has

been "noticed" in the *Newsletter* already. Some Board members were not comfortable with moving ahead. Origer suggested that we contact the Society for American Archaeology (SAA) to see if they have any problems. The motion was tabled until additional research is conducted.

Copies of the faxed committee report for Archaeology Week from Committee Chairperson Nancy Fox were distributed. The Archaeology Symposium in Palm Springs (sponsored by Coachella Archaeological Society and SCA) had gone well. Sampson brought up the issue of making the Archaeology Week Calendar more regional. Roper reported that the Office of Historic Preservation (OHP) puts the calendar on the web and identifies the local contact for each county. That way when they get calls they can direct people to the web for a local contact.

Gamble noted that it is the responsibility of the President to go through the *Newsletter* and notify the *Newsletter* Editor of changes in names and phone numbers of Committee chairs. Sampson said he would contact White regarding updating the committee information. He also asked other Board members to contact White if they see things that need to be changed in the *Newsletter*.

At 12:00 lunch arrived. The Board continued to meet though lunch.

Fox has asked about the timing of Archaeology Week. She is conducting a survey of California Archaeology Week participants. It was agreed that the current timing was based on coordination with National Historic Preservation Week. Fox has been told by individuals she polled that the current time (early May) is bad for students. One of her questions is, who is our intended audience? Gamble identified three goals: to highlight the issue of looting, the value of preservation, and respect for people. In the past the activities have been primarily directed toward adults. Sampson stated that it should be for both kids

## SCA Business and Activities

and adults. Sampson asked Board members to provide ideas on Archaeology Week, and to send copies to the rest of the Board if they contact Fox with ideas.

Native American Programs Committee report was given by Gamble. She had spoken with Committee Chair Phil de Barros. The Native American workshop at the 1998 Annual Meeting went better than expected. There was standing room only.

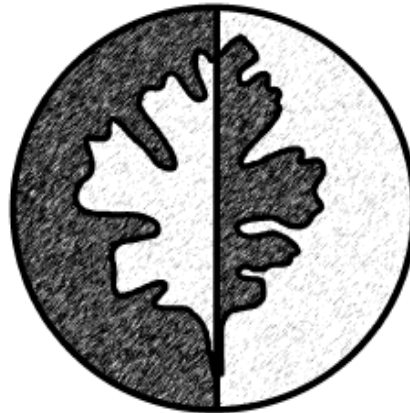
Roper reported she had no information from Tom Wheeler (Membership Committee Chair), but there are currently 525 members. She will be sending out the second renewal notices. Roper asked if the Board wanted to consider regional chapters like some wildlife societies and the American Institute of Archaeology (AIA). SCA could even offer to provide speakers. Gamble commented that a lot of members were already doing this informally. Roper pointed out that this was a way to increase local support. Gamble suggested SCA offer special membership rates and contacts for local speakers. Roper stated that liability insurance was an issue for avocational groups, and that Larry Weigel is researching it. Origer asked if there was a membership category for an avocational society as a whole? He also suggested they be sent a copy of the *Newsletter* when they are mentioned. SCA should send letters to the avocational societies and offer to list their scheduled events. Roper noted that putting information on the web is not as effective a tool with avocational societies. Gamble suggested we "beef up" the calendar of events in the *Newsletter*.

Gamble presented the Legislation Committee report. She had talked with Lynn Dunbar regarding California Environmental Quality Act (CEQA) Guidelines revisions. The public comment period for the proposed CEQA Guidelines revisions has been extended to June 18. Sampson will work with Lynn Dunbar

to formulate comments by the SCA. A copy of the revisions is available on the internet.

Sampson gave the report for the Local and Regional Planning Committee. Laurie Warner, the chair of this committee, is tracking the proposed reorganization of State Office of Historic Preservation.

The Board moved on to the next Agenda Item, the State Parks letter. Gamble passed out a letter from Richard Rayburn at State Parks (he supervises the archaeologists). This letter is a response to the letter Gamble sent regarding damage to archaeological sites (damage noted by John Parker). Sampson said he was



encouraged by the first paragraph and recommended a thank you letter requesting the SCA be kept informed of further developments. Origer suggested that SCA could offer to help with the training referenced in the letter. A discussion of phasing and the goals of such an offer followed. Gamble noted that the lack of oversight for State Parks is still an issue. Gamble said she would send her response to the Board and would continue to take responsibility for following up on this matter.

Sampson mentioned that there is interest in expanding SCA's educational effort. A general discussion followed. Roper pointed out that the Bureau of Land Management (BLM) education project was the biggest

thing SCA has done recently. Sampson asked if SCA wants more education workshops like the one this year at the Annual Meeting? Roper stated that John Pryor holds workshops several times a year for teachers. Sampson added that more of an emphasis on education could mean more funds for education. Sampson commented that education is a good way to interest legislators in archaeology and a good public relations tool for SCA. Sampson said he would put education coordination on the Agenda for the next Board Meeting.

The next Agenda Item dealt with oversight of the Annual Meeting. Sampson suggested that one or more Board member should contact the Local Arrangements Chairs for upcoming Annual Meetings. He said that he will be discussing plans with the 1999 Local Arrangements Chairpersons. Roper suggested that each Local Arrangements Chairperson provide a written report after the meetings. Origer added that the Northern or Southern Vice President could take a role in this, depending on geography. Gamble suggested that this responsibility be made clear; put it in the Procedures Manual as a duty of the Vice Presidents. The Board agreed to ask the appropriate Vice President to regularly check on the status of the Annual Meeting plans.

Next order of business concerned the State Historic Resources Commission (SHRC). Origer reported that he attended the May meeting and presented the State Board Members with Archaeology Week posters. Sampson asked if the SHRC mentioned the reorganization at the State Office of Historic Preservation. Origer replied no, that this was not a business meeting, but a gathering focused on resources that were being nominated. The August meeting in Mendocino/Ukiah would be a business meeting and address the issue of the Yurok Information Center proposal.

The next report dealt with the SCA Business Office and accounting



## SCA Business and Activities

procedures. Dowdall distributed a one page handout that outlined proposed changes in SCA accounting. She reported that the joint checking was not working. Her recommendation was that the Treasurer keep the master accounts and the Business Office have a checking account for operating funds. The Treasurer would disburse \$3,000 quarterly for a total of \$12,000 to go to the Business Office. The Business Office has been keeping the records and the Treasurer has not had access and this has hampered tracking. Dowdall pointed out these changes need to be put into the By-Laws.

Dowdall also reported that her personal accountant had prepared the Society's taxes for free (she does this for non-profits). Dowdall had given her a mug and a poster. Sampson asked Dowdall for the name and address of the accountant so SCA can send a certificate of appreciation. Roper offered to print the certificate.

Dowdall moved that the proposals in her memo be accepted. Basgall seconded the motion and it passed unanimously. There was a brief discussion of which bank was better for the Business Office account. It was agreed that Roper and Dowdall would look into Glendale Federal Bank.

Gamble reported on the status of Peer Review Initiative and Standards. SHPO has given the go ahead to SCA to develop peer review on a voluntary basis in conjunction with the Information Centers. Topics to be addressed include guidelines for selecting reviewers, selection of reviewers, and liability issues. She added that there will be a charge for the review. There is also the issue of conflict of interest that will need to be addressed.

The discussion moved on to duties of the Board Members. Sampson pointed out that earlier discussions had already covered Treasurer, Business Manager, and Vice Presidents. He suggested further discussion be tabled until the next meeting since Basgall and Origer

were just now receiving their Executive Board Manuals.

Break 2:25 to 2:30.

Sampson began the discussion of the next item – Reevaluation of the SCA Budget. It does not appear that we made any money on the Annual Meeting. Dowdall stated that there are funds set aside for the Archaeological Conservancy. Gamble noted that the Board can't make budget decisions until there is an accounting for the Annual Meeting. The budget discussion included the benefits/lack of benefits from membership in the Planning Conservation League (PCL). Sampson pointed out that legislators will listen to PCL. Roper



said that PCL had told the Board that they would need more money if they were going to do more for archaeology. Sampson stated that the consensus of the Board is that the affiliation with PCL needs to be closely examined and a determination made whether it is an effective use of funds or not. Dowdall passed around her copy of the 2<sup>nd</sup> Quarter Budget (with corrections).

Sampson suggested the SCA not print the statewide Archaeology Week publication as a cost saving measure. County coordinators can produce the schedules, as Committee Chair Fox had suggested. Dowdall said she would follow up on Archaeology Week sponsor's donations. The Board agreed that the Archaeological

Conservancy should get their money. Roper stated that Archaeology Week expenses should be reimbursed. Gamble suggested that the Executive Board expenses could be cut.

The discussion then moved to the California Environmental Quality Act (CEQA) proposed revised guidelines. June 18 is now the deadline for comments. There has been concern expressed that urban areas had been removed as areas of concern, since there are still archaeological concerns. The Board agreed that SCA should send a comment letter, to be signed by SCA President Sampson. Origer suggested that comments should be sent to Sampson by Thursday June 11.

Dowdall said resource banking may come up at the SHRC August meeting. At some point SCA will need to address this issue. It was noted that Jim Woodward's reporting on the Office of Historic Preservation Resources Banking Committee has been very good. Roper suggested having a representative at the Fall Data Sharing Meeting.

A discussion of future Board Meetings followed. The next Board Meeting is scheduled for October 23 in Sacramento. Currently the January Board Meeting is set for January 15 and 16. It was suggested that due to potential travel conflicts this tentatively be rescheduled to January 23 and 24. The first day will be a Board Meeting and the second day will address the Strategic Plan, both accomplishments and goals. It was reported that the Southern Data Sharing Meeting will occur on October 10 and the Northern Data Sharing Meeting is scheduled on October 24.

Sampson reported on a conversation he had with Mary Gorden and the Education Committee report she had sent him. The committee feels the SCA should be more involved in teacher training. SCA is currently involved in the BLM Legacy grant. Two workshops are also planned, one

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## Reports and Announcements

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in Lemoore and the other at Twentynine Palms. Roper copied and distributed the fax of the Education Committee report.

Sampson adjourned the meeting at 5:00 p.m.

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### Meetings

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## State Historical Resources Commission Meeting

*Russ Kaldenberg*

The State Historical Resources Commission will hold its quarterly meeting on Thursday April 22, 1999 in conjunction with the Society for California Archaeology's Annual Meeting. This is the first time the commission has held one of its meetings in conjunction with the SCA. Commissioner Kaldenberg will coordinate the logistics. It is a rare opportunity for SCA members to mingle with the commissioners and express their opinions on statewide preservation issues. It is also a wonderful opportunity for the commissioners to attend sessions and meet SCA members.

The Bureau of Land Management will also hold its annual workshop in conjunction with the SCA on Tuesday April 20 and Wednesday April 21.

## SHA to Meet in the West

*Robert L. Schuyler*

The Society for Historical Archaeology (SHA) is coming west for its 1999 Annual Meeting. The 32<sup>nd</sup> Conference will be held between January 5 and 10, 1999 at the Hilton Hotel in Salt Lake City, Utah. Its major theme, "Crossroad of the West: 19<sup>th</sup> Century Transportation, Mining and Commercial Development in the

Intermountain West," will be accompanied by other sessions on such topics as Historic Native American Sites, Overseas Chinese Archaeology, Mission Archaeology, and many others directly of interest to SCA members. Of course, there will also be full coverage of historical archaeology back East, including the recently discovered 1607 Fort at Jamestown, as well as projects outside of North America.

The SHA now has more than 2,000 members and at its 1998 January Meeting in Atlanta, Georgia over 1,000 people attended to hear 405 papers organized in 60 sessions. I urge all SCA members to come up to Salt Lake City for what will be a large and enjoyable meeting. The easiest way to find out about the conference is to join the SHA (\$75 regular membership; \$40 student – SHA PO Box 30446 Tucson, Arizona 85751) so you will get the quarterly journal, *Historical Archaeology*, and the quarterly *SHA Newsletter*, which contains all information on the upcoming annual meeting. Or visit the SHA's web site at <http://www.sha.org>. Conference chair Michael R. Polk may be reached at: Sagebrush Archaeological Consultants, 3670 Quincy Avenue Suite 203, Ogden, UT 84403; Tel: 801-394-0013, Fax: 801-394-0032, E-mail: [sageb@aol.com](mailto:sageb@aol.com).

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### Opinion and Comment

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## Some Thoughts on Cultural Resource Mitigation Banking

*Larry Weigel*

The concept of Cultural Resource mitigation banking has been discussed by an OHP sponsored task force and not all parties agreed on just how it would work but most agreed

that the first step would require the development of a context to use in evaluating resources prior to applying the banking process. As a member of that task force it became clear that we were facing two value systems: (1) potential cultural values associated with the community (ethnic and historic) and (2) scientific values (archaeology, history, architecture). Thus far the only source of disagreement seems to stem from specifics of how the resources would be evaluated. The actual implementation of the program is an issue with enough flexibility to negotiate remaining problems. Returning to the points of agreement, the development of regional overviews is not something new and the development of regional research designs would be a positive step. The concept of adding a surcharge to cultural resource compliance activities was discussed as a potential funding source for the necessary development of the context. Will developers pay the surcharge; can they be convinced that it will benefit them in the long run? Can a regional research design be developed with a structure that will accommodate new questions and avenues of inquiry? I think it's all possible but unlikely to happen quickly or without great effort. Does anyone have any alternative approaches we have overlooked? Let's hear about them.

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## Use Of The Global Positioning System To Document Cultural Resources

*(cont'd from Page 1)*

The use of a rover unit receiving a corrected signal from either a terrestrial or satellite radio beacon is termed "Differential GPS" (DGPS), and can provide the user with highly accurate real-time locational data in the field. One example is the RTCM (Radio Technical Commission for Marine Services) correction signal broadcast by the US Coast Guard from several stations along the California coast. Using this capability, the GPS receiver is no longer operating autonomously in the field, as it is receiving both the uncorrected signals from the satellites and the corrected signal from the beacon. By comparing the two, the unit is able to correct for any given location to a correspondingly higher degree of accuracy depending upon the capabilities of the receiver used. The DGPS link requires that the beacon and receiver are "seeing" the same satellites and that the receiver is capable of accessing the beacon. The link from a land beacon is sometimes problematic to maintain as it is based on line-of-sight transmission through variable terrain.

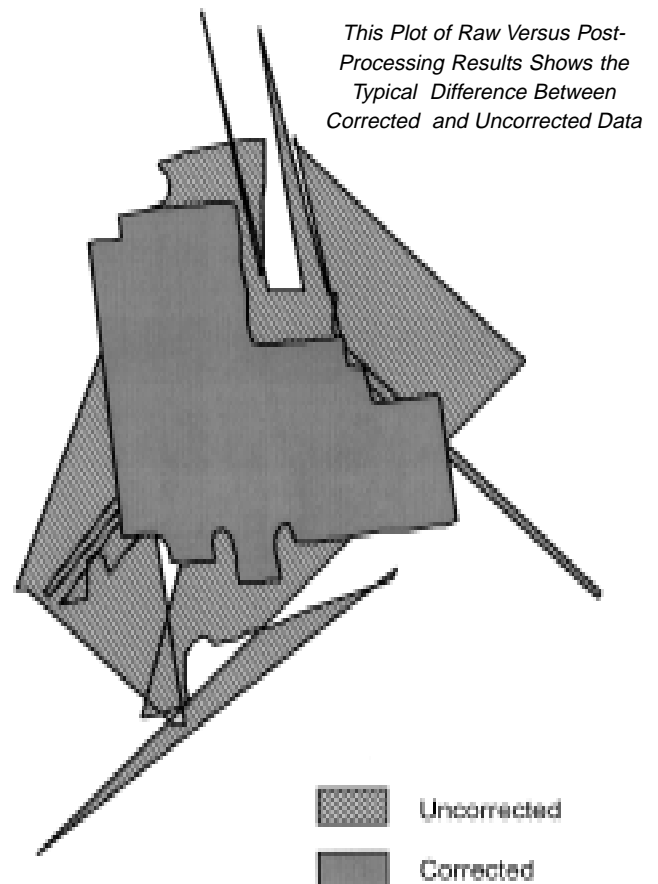
In order to produce results suitable for archaeological documentation, post-processing of the data is almost always required, even in the case of data obtained with the DGPS link. The correction provided by the beacon in the field is not as accurate as that obtained through post-processing. This is because, while in the field, errors from selective availability are corrected, those attributable to atmospheric interference are not. While data obtained in conjunction with a DGPS link will be more accurate than that obtained without, to achieve maximum accuracy all data obtained in the field should be corrected through post-processing. Having access to a DGPS link is especially helpful for the relocation of previously discovered resources, as the navigational coordinates in the field are much more accurate than those obtained with an autonomous receiver.

### Receiver Types

In order to achieve results appropriate for archaeological investigations, the correct type of GPS receiver must be considered. Various types of receivers can be effectively used for a wide range of tasks. "Consumer" grade GPS receivers are generally not capable of differential correction, and are only accurate to within 100 meters 95% of the time due to selective availability. This limits the effectiveness of these receivers for the purposes of documenting cultural resources, as this level of accuracy can often be met or surpassed in the field by an experienced archaeologist using traditional mapping methods.

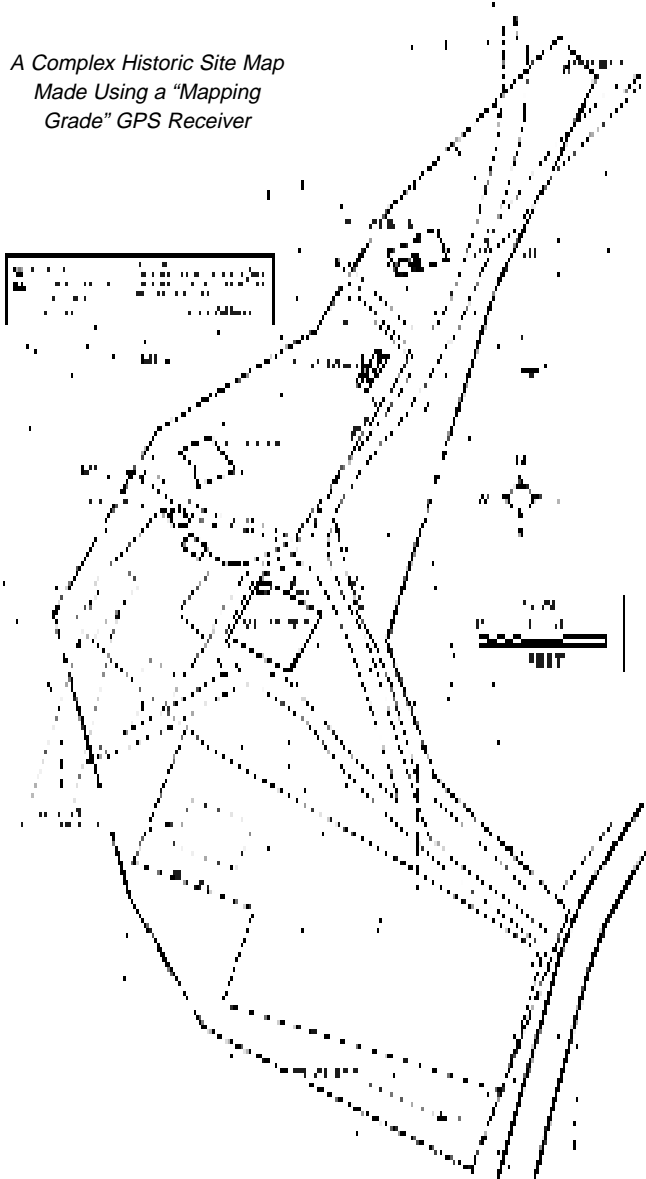
The "mapping grade" receivers provide a much wider and effective array of services, as they are capable of accuracy at less than 5 meters when differentially corrected, and with better models less than 1 meter. The former receiver types are well suited to provide site or resource locational data for presentation on a standard 1:24,000 scale topographic quadrangle, and can provide for the mapping of features such as large site boundaries or linear features. The latter, more accurate, models can provide for the mapping of site boundaries, datums, photo locations, artifacts, and associated features such as midden or rock alignments; in short, everything required for standard site and feature documentation. At the present time, these are the most common systems being employed for archaeological documentation.

The third type of receivers, generally termed "survey grade," are capable of sub-centimeter accuracy as required for extremely precise engineering and architectural applications. These receivers are especially well suited to the intensive mapping of features and resources which require extremely detailed documentation such as subsurface excavation, stratigraphic and feature exposures and architectural or structural components.



## Articles

A Complex Historic Site Map  
Made Using a "Mapping  
Grade" GPS Receiver



### Data Collection and Storage

Spatial data is collected and stored by the GPS receiver (and eventually displayed within a GIS or graphics application) as point, line and area (polygon) features. For example, an individual artifact would be stored as a point feature, a road or creek as a line feature, and a site boundary or structure as an area feature.

Point features require a minimum of one GPS position however at least 10 positions are recommended, as the location is determined by averaging the individual positions recorded at a fixed occupation. Thus, if the antenna is situated over a projectile point and allowed to collect 20 positions, the resulting feature will be assigned a location which is an average of those positions. The number of positions obtained for a particular location results in correspondingly higher degrees of accuracy.

Line features are obtained by recording a series of point positions which are automatically linked to form a linear representation of the data. A minimum of two positions are required to create a line feature, with the more positions recorded along the course of the feature resulting in a higher degree of accuracy and detail.

Area features are similar to line features, but the initial position taken serves by default as the as last position, thus creating a closed feature. In documenting an area feature a minimum of three points is necessary, as the receiver will automatically "close the loop" between the last position taken and the first. It is thus not necessary to return to the initial starting point to record an area feature; this is especially helpful in documenting large areas such as survey coverage blocks, agricultural fields or property boundaries.

In addition to the spatial or graphic data, most mapping grade receivers are capable of collecting textual or descriptive (non-graphic) data. At the most basic level this is accomplished by simply entering a numeric or textual description of the resource being mapped. For example, prior to mapping an prehistoric rock alignment (linear feature), the user could elect to enter a textual and/or numeric description such as "Site or Feature #, prehistoric rock alignment, 4-5 courses, tabular basalt, 1 meter high, .75-1 meter wide, excellent integrity, etc."

The collection of non-graphic data is further enhanced by the use of a data dictionary, in which a customized database can be stored within the receiver to simplify data collection and feature description. Data dictionaries are designed around attributes and attribute values, with the former representing "questions" about the resources and the attribute values representing the "answers". The attributes are generally formatted in the following types:

(1) Menu, in which the attribute is defined by a particular value chosen from a list of options. For example a point feature may contain attributes such as projectile point, groundstone, unmodified flake, lithic material. On choosing one of these options, the user would be prompted to enter an attribute value from a menu of options. The values of the attribute "projectile point" could consist of choices such as "Gunther-Barbed" or "Desert Side-Notch". Similarly, for "lithic material" the user would be prompted to enter from a choice of values such as "Napa obsidian" or "Monterey chert." Obviously, some of the attributes would be mutually exclusive in recording any given resource, as a given point feature cannot be both a "projectile point" and an "unmodified flake," and the user would simply ignore those attributes which do not apply.

(2) Textual, in which a textual or numeric descriptions may be entered with the keypad. This is helpful in describing resources that may not have been accounted for within the various menu attributes, as it is very

common to encounter resource types which fall out of the predictive model that served as the basis for the data dictionary. For example, if a projectile point type that had not been entered into the menu values was subsequently discovered, then a new description could be entered.

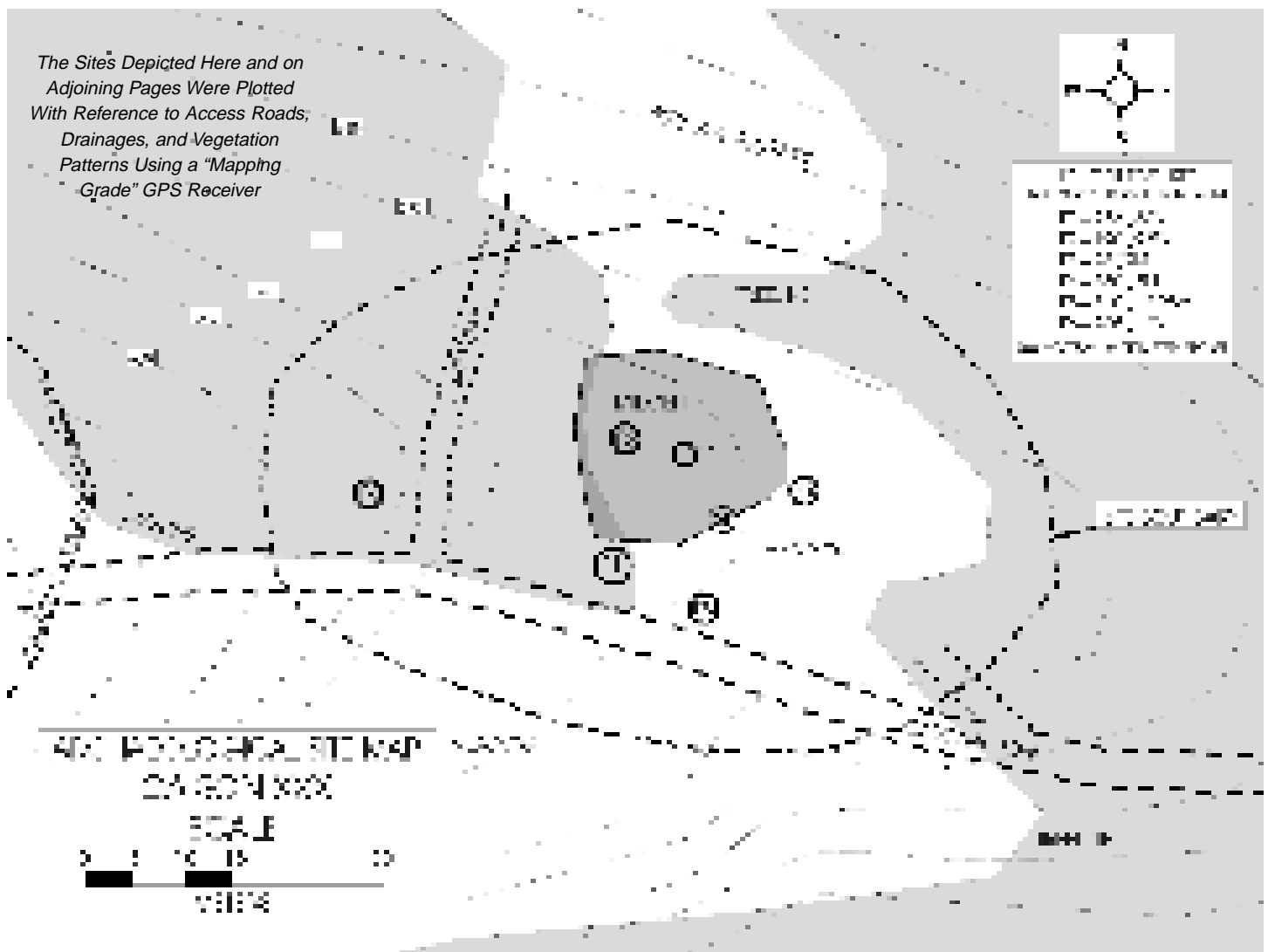
(3) Numeric, in which additional spatial data that the GPS receiver may be unable to adequately document can be entered, such as the height or angle of a rock outcrop or the depth of a well. Several different numeric attributes, such as length, height, width, depth, or slope, could be stored. For example, some of these different numeric attributes could be used to document the physical dimensions of a petroglyph boulder (length, height, and width).

(4) Time and Date. These attributes are generally set by default to enter the time and date the feature was documented by the user, however they can also be set to

manual entry. In the latter case, an alternate date could be entered such as when the feature was originally discovered or recorded, or when it needs to be revisited for further inspection.

(5) File Name. This attribute provides for the linking of the feature with a document or file created outside of the GPS system. For example, a feature collected by the GPS, such as the site datum, could be linked to the site record by entering the file name of the text document. Similarly, a digital photo taken from a location mapped with the GPS could be linked. When downloaded into a Geographic Information System, the link would provide instant access to the document by launching the appropriate application and opening the file.

Several different data dictionaries can be stored within the receiver to provide for a wide range of data collection options, as the archaeological resource types encountered within different regions may be highly variable. Similarly, a



## Articles

receiver used by a diversified natural resource company may contain data dictionaries to document a wide array of resource types such as wetland areas, habitat types, vegetation stands, soil types, or roads and infrastructure.

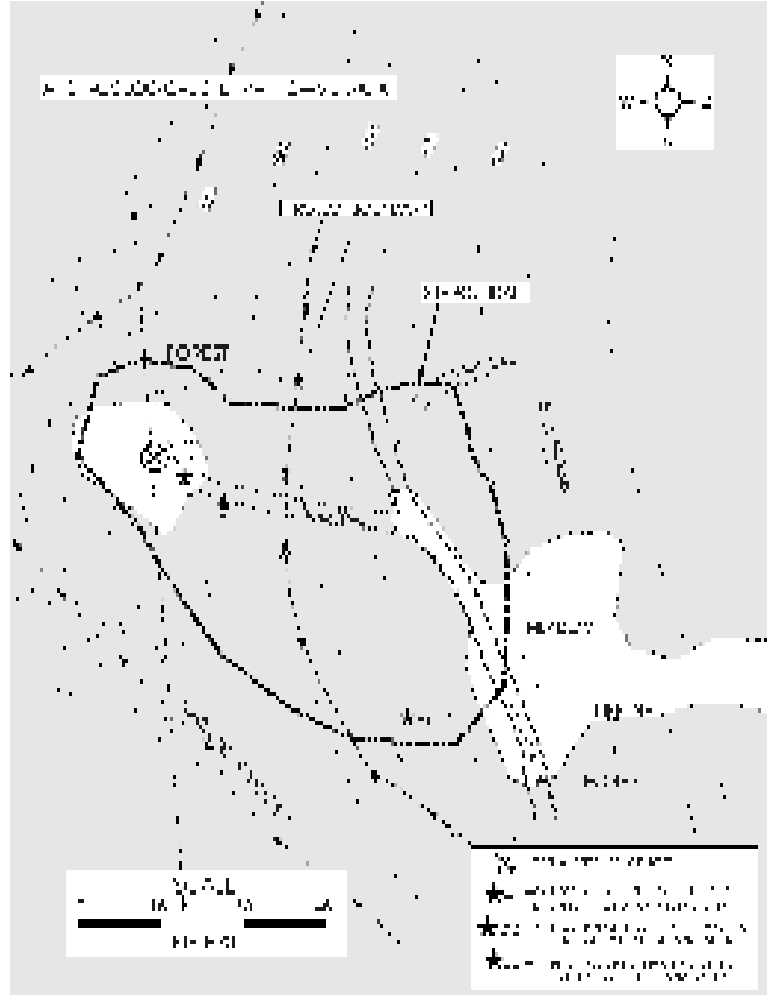
### The Advantages of GPS Over Traditional Mapping Methods

For most archaeological applications GPS is a single-user system, unlike a transit or total station that requires at least two people, and often more, to efficiently gather spatial data. All of the mapping and survey grade receivers can be used as autonomous units which provide corrected data through post-processing. In some cases, the units can provide real time corrected data which improves the on-ground ability of the investigator to assess various aspects of any given resource or resources.

It is not necessary to maintain or reference a fixed terrestrial datum during mapping operations. A traditional site datum (such as a tree) should, however, be designated and the location recorded in order to facilitate site relocation and possible future investigations using either the GPS or traditional methods. Similarly, GPS can vastly simplify the relocation of datums or features for which accurate coordinates, such as universal transverse mercator (UTM) or latitude/longitude designations, exist. The appropriate coordinates can be entered in to the GPS system and the user will be guided to the position, often to within accuracies of less than 1 meter. For example, a tree that was designated as a site datum ten years ago may no longer exist. The GPS unit is capable of relocating this point regardless of its current condition.

Although usually requiring differential correction software for maximum effectiveness, the graphic and descriptive data captured in a GPS application does not require a GIS program for graphic presentation. While GIS provides the framework for large scale databases, it is not necessary for the construction or presentation of typical site or locational maps.

Using GPS is generally much faster than using traditional methods, especially for documenting large or complex resources. Rather than initially spending time to determine the nature and extent of a given archaeological site or resource, the mapping of a site or feature can often be accomplished as the resource is initially discovered, inspected, and described. Similarly, these receivers are ideal for mapping large features such as historical roads, railroad grades, mining sloughs, or fence lines which are difficult to record using standard methods. These resources can often extend many hundreds of meters if not miles, and could otherwise prove to be time consuming to accurately map in difficult or variable terrain. Similarly, these models allow for the mapping of multiple sites within a study area and the presentation of these data within a single unified database.



Thus survey coverage, archaeological sites and isolates, protection zones, and non-historical but potentially relevant features such as watercourses, roads, or skid trails and study area boundaries, can all be documented through the GPS. The included site maps were mapped and produced in a fraction of the time required by traditional methods, with a degree of error of less than one meter.

### Summary

While this article presents only a basic overview of the use of the GPS to document archaeological resources, this technology has already begun to revolutionize the manner in which spatial data is collected. The accuracy of the system, significant savings in time and personnel required, and the ability to link both graphic and non-graphic data within a single collection and editing method are proving to be powerful tools in assisting archaeological investigations. Recent advances in this technology are making this tool accessible to a much wider range of private, governmental and scholarly institutions, and the benefit to both theoretical research and resource management has only just begun to be realized.

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*SCA Business and Activities*

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**1999 Annual Meeting  
Society for California Archaeology  
Abstract for Paper**

Paper Title: \_\_\_\_\_

Symposium / Workshop / Roundtable Session (if known) or Subject Area(s): \_\_\_\_\_

Author(s): \_\_\_\_\_

Affiliation: \_\_\_\_\_

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

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

Phone: ( ) \_\_\_\_\_-\_\_\_\_\_ Fax: ( ) \_\_\_\_\_-\_\_\_\_\_ E-Mail: \_\_\_\_\_

Abstract (No more than 150 words, typed, single spaced. Please also include an electronic copy on disk [IBM-compatible files preferred])

Would you consider presenting your paper as a poster session?      \_\_\_\_\_ Yes      \_\_\_\_\_ No

Audio-Visual equipment requirements (a slide projector will be provided to every room).

Paper presentation length (symposia and roundtable sessions will be structured to allow time for questions and discussion):

15 minutes \_\_\_\_\_ 20 minutes \_\_\_\_\_ Other (please explain) \_\_\_\_\_

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*Paper abstracts MUST be submitted by December 31, 1998. Send to Kathleen Hull, Program Chair, Dames & Moore 60 Declaration Drive, Suite B, Chico, California, 95973 (510) 465-4962 e-mail: hull@qal.berkeley.edu*

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*SCA Business and Activities*

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**1999 Annual Meeting  
Society for California Archaeology  
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Poster Title: \_\_\_\_\_  
\_\_\_\_\_

Poster Organizer(s) / Presenter(s): \_\_\_\_\_

Affiliation(s): \_\_\_\_\_

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

Phone: ( ) \_\_\_\_\_-\_\_\_\_\_ Fax: ( ) \_\_\_\_\_-\_\_\_\_\_ E-Mail: \_\_\_\_\_

Abstract (No more than 150 words, typed, single spaced. Please also include an electronic copy on disk [IBM-compatible files preferred])

Suggested date and time slot when organizers and presenters will be available on-site to discuss poster:

Dimensions, square-footage, and mounting requirements:



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*SCA Business and Activities*

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**1999 Annual Meeting  
Society for California Archaeology  
Conference Session Outline**

Title of Session: \_\_\_\_\_

\_\_\_\_\_

Chairperson(s): \_\_\_\_\_

Affiliation(s): \_\_\_\_\_

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

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

Phone: ( ) \_\_\_\_\_ - \_\_\_\_\_ Fax: ( ) \_\_\_\_\_ - \_\_\_\_\_ E-Mail: \_\_\_\_\_

Discussants / Panel (if planned): \_\_\_\_\_

Abstract (No more than 150 words, typed, single spaced. Please also include an electronic copy on disk [IBM-compatible files preferred])

List of Papers and presenters (if known at this time). Separate paper abstracts must be submitted for each by December 15, 1998:

Recommendation: conference sessions will usually run a maximum of 3 hours, from 9:00 AM - 12:00 noon and 1:30 - 4:30 PM. For read papers, assume a standard allowance of 15 minutes per paper. Plan at least 15 minutes for audience discussion for every five papers being presented. Beyond this, innovation is encouraged in the format for conference sessions. Session chairs are encouraged to create contexts which encourage audience participation.

*Session abstracts MUST be submitted by October 15, 1998. Send to Kathleen Hull, Program Chair, Dames & Moore 60 Declaration Drive, Suite B, Chico, California, 95973 (510) 465-4962 e-mail: hull@qal.berkeley.edu*

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## *Data-Sharing Meetings*

### 1998 Northern California Data-Sharing Meeting

October 24, 1998

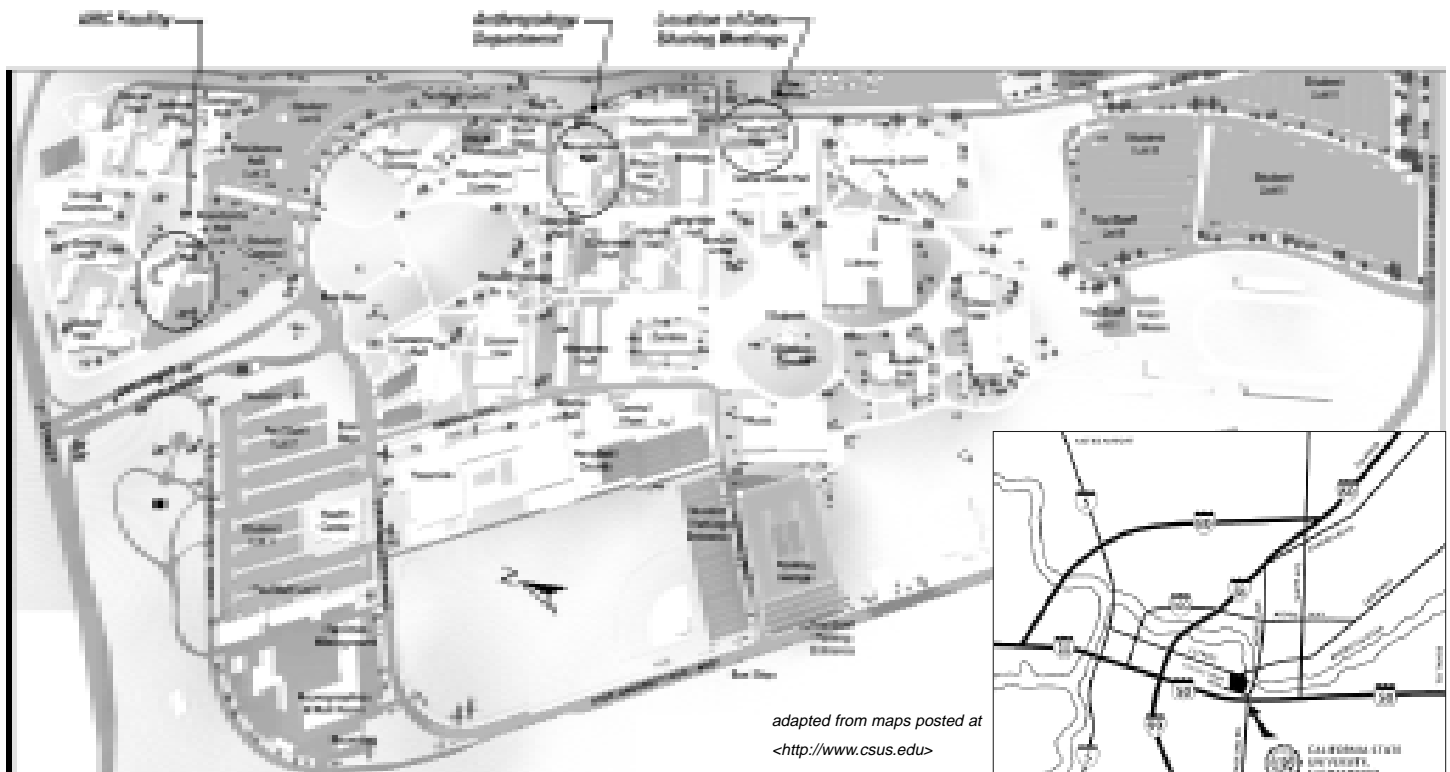
California State University, Sacramento

ECS 1015 (Engineering II Building, Riverside Hall)

8:00-8:30	.....	Coffee and Pastries
8:30-11:30	.....	Papers Presented
11:30-12:45	.....	Lunch
12:45-4:15	.....	Papers Presented
4:15-5:15	.....	CSUS Archaeology/ARC Open House
6:00-10:00	.....	Potluck/Dinner Party at Basgall's House

Daily parking permits are available for several lots on the CSUS campus. Directions to local eateries, to ARC and Anthropology facilities, and to Basgall's house will be provided at the meeting. Please forward paper titles and abstracts by mail to Mark Basgall at: Department of Anthropology, 6000 J Street, California State University, Sacramento, CA 95819-6106; or via e-mail to: [mbasgall@saclink.csus.edu](mailto:mbasgall@saclink.csus.edu).

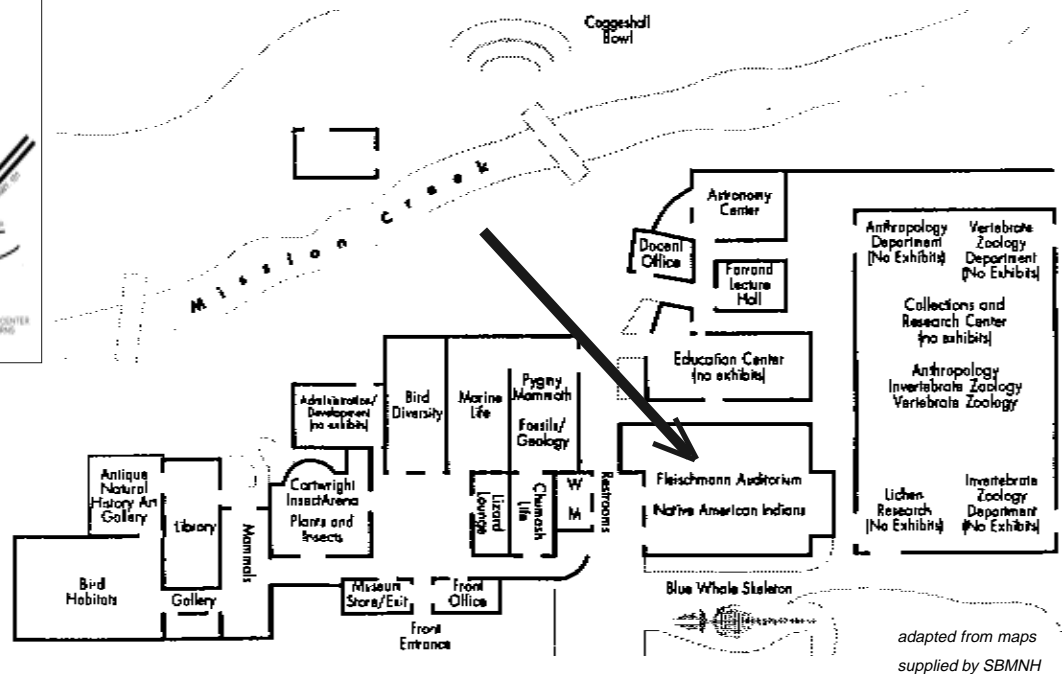
### California State University, Sacramento



## Data-Sharing Meetings



**Directions:** From 101 Freeway, exit at Mission, head east (toward the mountains) on Mission nine blocks to Laguna Street, continue two blocks to Olive Street. Turn right, proceed past the Santa Barbara Mission (on your left), take Mission Canyon Road at the fork, cross the bridge over Mission Creek and turn left on Las Encinas. Turn left again on Puesta del Sol, then right into the well-marked, free parking lot. Go through the gate to the left of the whale skeleton display—the auditorium will be on your right. No food is available at the Museum.



### Santa Barbara Museum of Natural History

adapted from maps  
supplied by SBMNH

## 1998 Southern California Data-Sharing Meeting

October 10, 1998

Santa Barbara Museum of Natural History

Fleischmann Auditorium, 9:00 am — 4:00 pm

**Presenters:** If you are interested in presenting a paper, please submit your paper title, your name and affiliation, and an abstract of no more than three sentences to Program Chair Steve Horne. Deadline for submittals is September 28, late submittals will be considered on a space-available basis..

Papers are limited to 15 minutes. A carousel slide projector will be available. Contact the Program Chair for other audiovisual needs.

Abstracts should be sent to:

Steve Horne  
Heritage Center  
Los Padres National Forest  
HC58 Paradise Road  
Santa Barbara, CA 93105  
PHONE: (805) 683-1421  
FAX: (805) 967-7312

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## Calendar of Events

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**September 6-12, 1998.** International Rock Art Congress (IRAC), Vila Real, Portugal. A session on Computer and Rock Art is planned, go to <http://www.10mb.com/rupestre/cyber.html> For more information on the Congress contact: Andrea Arca', Footsteps of Man Piazzale Donatori di Sangue, 1 25040 CERVENO (Bs) - ITALY Fax: 0039.364.434351 or [aarca@inrete.it](mailto:aarca@inrete.it)

**Sept 23-27, 1998.** EAA 4th Annual Meeting - Goteborg, Sweden. Computer Visualisation and the Internet: Archaeology, Heritage and Accessibility. For information contact Steve Dobson [sd20@york.ac.uk](mailto:sd20@york.ac.uk) or Tony Eddison [tony.eddison@onyxnet.co.uk](mailto:tony.eddison@onyxnet.co.uk)

**September 28 to October 3 1998.** The Third experience of Tracing the past, full-immersion Rupestrian Archaeology Professional Workshop, will be held in Valcamonica Italy. All information online at <http://www.10mb.com/rupestre/works/trpast.html>. Detailed program at <http://www.10mb.com/rupestre/works/program.html>. Online application form (deadline August 30 1998) at <http://www.10mb.com/rupestre/works/trpast.html#iscr>

**October 8-10, 1998.** Twenty-sixth Great Basin Anthropological Conference, Bend Oregon. For more information contact Dennis L. Jenkins, Museum of Natural History, 1224 University of Oregon, Eugene, Oregon 97403-1224

**October 10, 1998.** Southern California Data Sharing Meeting. The meeting will be held at the Santa Barbara Museum of Natural History's Fleischmann Auditorium from 9am-4pm. Map and directions appear elsewhere in this issue of the *Newsletter*. For more information contact Steve Horne at (805) 683-1421 or [shorne/r5\\_lospadres@fs.fed.us](mailto:shorne/r5_lospadres@fs.fed.us)

**October 15-18, 1998.** Society for the History of Technology (SHOT) will meet in Baltimore MA. For information visit their website at <http://www.auburn.edu/Academic/societies/SHOT>

**October 24, 1998.** Northern California Data Sharing Meeting. TBA. Map and directions appear elsewhere in this issue of the *Newsletter*. For more information contact Mark Basgall at (916) 278-530 or [mbasgall@saclink.csus.edu](mailto:mbasgall@saclink.csus.edu)

**November 1, 1998.** "Discourse" is a new paper format peer-reviewed journal dedicated to publishing the research of students working at the graduate level in all four fields of anthropology or related disciplines. At this time, we are seeking articles and book reviews for our premiere issue, scheduled for a Spring 1999 release. For submission guidelines or more information, please contact the editors at [anthro-discourse@acsu.buffalo.edu](mailto:anthro-discourse@acsu.buffalo.edu) or visit our website: <http://wings.buffalo.edu/anthropology/Discourse>

**November 12-15, 1998.** 31st Annual CHACMOOL Conference. Calgary, Alberta, Canada on Being First: Cultural Innovation And Environmental Consequences of First Peoplings. For more information contact: James W. Helmer at [helmer@acs.ucalgary.ca](mailto:helmer@acs.ucalgary.ca)

**December 1998.** The National Center for Preservation Technology and Training has issued its 1999 Call for Proposals for NCPTT's Preservation Technology and Training Grants program. The Call for Proposals is available via e-mail. Send a blank message to [pttgrants@ncptt.nps.gov](mailto:pttgrants@ncptt.nps.gov) and the call for proposals will return automatically. Fax-on-demand: Call 318/357-3214 and follow the recorded instructions to receive a catalog of documents that includes the call for proposals. Visit the web site at <http://www.ncptt.nps.gov/> and click on "Preservation Technology and Training Grants." Request a printed brochure by sending an e-mail message to [ncptt@ncptt.nps.gov](mailto:ncptt@ncptt.nps.gov), telephoning 318/357-6464, or writing NCPTT, NSU Box 5682, Natchitoches, LA 71497. For more information, contact John Robbins, NCPTT Executive Director; telephone 318/357-6464, facsimile 318/357-6421, e-mail [john\\_robbins@ncptt.nps.gov](mailto:john_robbins@ncptt.nps.gov)

**January 5-10, 1999.** SHA Annual Meeting. Salt Lake City Hilton Hotel, Salt Lake City, Utah. For more information go to <http://www.sha.org/cfp-99.htm>

**January 7-14, 1999.** The Inspiration of Astronomical Phenomena ("INSAP II"), to be held on The Mediterranean Island of Malta. For more information contact: Raymond E. White, Steward Observatory, University of Arizona (Chair) at [rwhite@as.arizona.edu](mailto:rwhite@as.arizona.edu); George V. Coyne, S.J., Vatican Observatory at [gcoyne@as.arizona.edu](mailto:gcoyne@as.arizona.edu); Rolf M. Sinclair, National Science Foundation, Arlington VA at [rsinclair@nsf.gov](mailto:rsinclair@nsf.gov); Frank Ventura, Malta at [fven@cis.um.edu.mt](mailto:fven@cis.um.edu.mt) or go to <http://ethel.as.arizona.edu/~white/insap.htm>

**January 10-14, 1999.** The World Archaeological Congress will be held at the University of Capetown, South Africa. For more information contact the Congress Secretariat at Global Conferences, P.O. Box 44503, Claremont, 7735, South Africa. Telephone: +27 (21) 762-8600, Fax: +27 (21) 762-8606 or e-mail: [wac4@globalconf.co.za](mailto:wac4@globalconf.co.za). The conference has a website at <http://129.78.16.135/~wac99/>

**January 24-February 14 & February 14-March 7, 1999.** Ometepe Petroglyph Project Field Survey. Visit the project website at <http://ourworld.compuserve.com/homepages/jrmartin> or for an application and information contact Suzanne Baker, Archaeological/Historical Consultants 609 Aileen St. Oakland CA 94609 (510) 654-8635 or at [SuzanneBaker@compuserve.com](mailto:SuzanneBaker@compuserve.com) or James Martin at [jrmartin@dnai.com](mailto:jrmartin@dnai.com)

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## Calendar of Events

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**February 12-14, 1999.** The California Mission Studies Association will hold its 16th annual conference at Mission Santa Inés, 1760 Mission Drive, Solvang, CA 93463. For more information, write the California Mission Studies Association, P. O. Box 3357, Bakersfield, CA 93385-3357 or e-mail [cmsa@lightspeed.net](mailto:cmsa@lightspeed.net). Additional conference information and an abstract form can be found at CMSA's web site, <http://www.ca-missions.org>

**March 24-28, 1999.** SAA Annual Meeting Sheraton Chicago, Chicago, IL. For more information go to <http://www.saa.org/meetings/>

**March 29 - April 1, 1999.** Fifth Annual California Islands Symposium will be hosted by the Minerals Management Service and the Santa Barbara Museum of Natural History. For more information, visit the website at <http://www.mms.gov/omm/pacific/public/public.html> or at <http://www.sbnature.org/symposium99.htm>. Inquiries may be sent to MBC Applied Environmental Sciences, 3000 Redhill Avenue, Costa Mesa, CA 92626. (714) 850-4830.

**April 23-25, 1999.** Society for California Archaeology Annual Meeting. Red Lion's Sacramento Inn 1401 Arden Way. For more information contact the meeting organizers. Program Co-chairs are Bill Hildebrandt and Kelly McGuire (530) 756-3941. Program Chair is Kathleen Hull (510) 465-4962, FAX (510) 465-1138 or e-mail [hull@qal.berkeley.edu](mailto:hull@qal.berkeley.edu)

**May 5-9, 1999.** Vernacular Architecture Forum 1999 Annual Meeting, Columbus, Georgia. For more information about the annual meeting, contact Julie Turner, 3039 Star Point Road, Franklin, GA 30217; (770) 854-8813; e-mail: [jturner648@aol.com](mailto:jturner648@aol.com) To participate, contact Julie Nicoletta, Assistant Professor, Liberal Studies Program, University of Washington Tacoma, Box 358436, 1900 Commerce Street, Tacoma, WA 98402-3100; (253) 692-4468.

The CRM editors wish to include in the 1999 production schedule issues devoted to the following themes: Hispanic Heritage, Asian-American History and Historic Railroads. If you are interested in contributing an article and/or you are interested in serving as a guest editor (issue coordinator), please contact Ron Greenberg at Editor, CRM, National Park Service-NC 350, 1849 C. Street, NW, Washington, DC 20240 202-343-3411 or via e-mail [Ron\\_Greenberg@nps.gov](mailto:Ron_Greenberg@nps.gov)

The **Federal Preservation Forum** is now online at <http://www.ca.blm.gov/cdd/fpforum.html>. The FPFORUM listserv promotes and facilitates communication and information exchange among cultural resources professionals working with federal preservation programs. FPFORUM is hosted by the Bureau of Land Management in conjunction with Federal Preservation Forum,

an organization dedicated to fostering communication and information exchange among preservation professionals and improving federal preservation programs nationwide. For subscriber information, list archives, and membership information visit the website.

The editors of **Internet Archaeology** <http://intarch.ac.uk/> are now seeking material for forthcoming issues. Internet Archaeology, Department of Archaeology, University of York, King's Manor, York YO1 7EP, Tel: +44 1904 433 955, Fax: +44 1904 433 939, E-mail: [editor@intarch.ac.uk](mailto:editor@intarch.ac.uk) E-mail discussion list: <http://www.mailbase.ac.uk/lists/intarch-interest/>

**Interested** in cataloguing and preserving archaeological data? Visit the Archaeology Data Service at <http://ads.ahds.ac.uk/>

**An on-line organization** dedicated to protecting cultural sites through letter and E-mail writing campaigns, called P.A.S.T. (Protecting Archaeological Sites Today), can be found at: <http://home.uleth.ca/geo/jasweb/jasweb.htm>

*Calendar listings include notices for meetings, lectures, museum openings, educational opportunities, etc. All submissions are welcome. For frequent updates and more background information visit the SCA web site <http://www.scanet.org>. Please send calendar listings to Donna Day, Tahoe National Forest, P.O. Box 6003, Nevada City, CA 95959-6003 or e-mail [day@jps.net](mailto:day@jps.net).*

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