

The Grapevine

Newsletter

June 13, 1992

FOR CULTURAL RESOURCES MANAGEMENT

Vol 2:5

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GOVERNMENTAL NEWS

Alabama

On March 13, 1992, the Scott Paper Company deeded 157 acres in Baldwin County known as the Bottle Creek Site to the Alabama Historical Commission. The site is significant in that "Bottle Creek is believed to be the key to understanding the growth and development of the Mississippian tradition over a large span of the Gulf Coast stretching from northwest Florida to east Louisiana," said Larry Oaks, Alabama Historical Commission executive director.

The site is located in the middle of a swamp in the Mobile-Tensaw delta and is one of the largest mound centers in the Southeast. While the site's existence has been known since the mid-nineteenth century, the first archaeological investigations were not undertaken until 1932. More recent investigations have been undertaken by the University of South Alabama (1990) and the University of Alabama (1991). Future investigations of Bottle Creek will be conducted under the guidance of the AHC and the University of South Alabama.

Alaska

A new Alaska Historical Commission has been proposed. Representatives from the present Alaska Historical Commission (AHC), the Historic Sites Advisory Committee (HSAC), the Alaska Historical Society (AHS), and the Alaska Association of Historic Preservation (AAHP) met in November to discuss merging the AHC and the HSAC, which are

administered by the Office of History and Archaeology. The board members for this new entity, to be called the Alaska Historical Commission, consist of an historian, archaeologist, architect, architectural historian, indigenous Alaskan, two public members selected from AHS recommendations, the SHPO, and the Lieutenant Governor.

The proposed board would carry out all the presently-mandated duties of the AHC and HSAC. In addition, the new board would be responsible for an historic marker program, for commemorations of historic events and individuals, and for coordination with the State Museum and State Archives. While the proposed board has the approval of the Governor's Task Force on Boards and Commissions, action on the proposed mergers is not expected during this legislative session. In the meantime, the Office of History and Archaeology is inviting comments on the proposals. Contact: The Office of History and Archaeology, Alaska Division of Parks and Outdoor Recreation, PO Box 107001, Anchorage, AK 99510-7001.

Connecticut

One of this year's recipients of The Connecticut Trust for Historic Preservation's special merit awards was the Mashantucket Pequot Tribe. The award was given for the Tribe's efforts to preserve an unmarked Pequot cemetery. The Long Pond Cemetery, which was located during a modern house construction, was used between 1667 and 1721. The Tribe was commended for their efforts to obtain the cooperation of professional archaeologists, a private property owner, and local and state governments in planning and implementing procedures that allowed for the archaeological investigation of the disturbed graves and preservation of the intact graves, while at the same time enabling the landowner to continue the house construction. These procedures are a model for other situations throughout the Northeast. It should be noted that all archaeological investigations at the Long Pond Cemetery were funded by the Mashantucket Tribe.

Illinois

The Illinois Historic Preservation Agency (IHPA) has developed forms to assist applicants submitting requests for comments to the IHPA. Prospective applicants should submit the completed form, with required maps and photographs, as early as possible in their planning process. Contact the IHPA staff for copies of this form at ☎ 217-785-4998.

READERS' CORNER

The Grapevine encourages comments on any of our articles and invites suggestions on topics for future articles.

PRIVY DIGGERS

In response to our editorial on the *Country Living Magazine* article, "Privial Pursuits" (March 12, 1992), Bill Green, the Iowa State Archaeologist, sent us a copy of a feature article with color pictures that appeared in *The Des Moines Register* last year. The article, entitled "Iowa-Style Archeology: Privy-diggers Excavate Outhouse Sites In Hunt For Antique Bottles," evoked a series of letters to the newspaper's editor from professional archaeologists and subsequently from privy diggers themselves.

One professional response noted that

"It is unfortunate that the activities of these two individuals is implicitly given credibility by *The Register's* story. In our minds, ruining important historic archeological sites in order to find whole bottles and calling it 'amateur archeology' is commensurate with shooting an albino deer, stuffing it and calling yourself an amateur wildlife biologist interested in taxidermy" (Derrick Marcucci, Susan Gad and James Huerter, The Cultural Resource Group, Louis Berger & Associates, Inc., Cedar Rapids).

In response to the professional archeologists' comments, a privy digger berated those scientists for letters that were "...neither well-researched nor well-reasoned". However, this same individual failed to grasp the scope of archaeological investigations when he stated that archaeologists were only

"...interested in the micro-view of a particular household or person using the artifacts. Examples of the information we [privy diggers] can provide the archeologists are a quantitative look at the druggist trade in Iowa, or the types of soda bottles used from 1860 through 1910, and how large these companies were and the dates these companies were in business."

The issue posed by these articles is the portrayal of "privy diggers" as part of the accredited archaeological community. Maybe historic archaeologists could learn a lesson from their prehistoric colleagues by working with these groups in symbiotic relationships, where both parties could learn, work, and benefit from the other's knowledge. If anyone has knowledge of programs that have been successfully developed to establish these kinds of relationships, *The Grapevine* would like to pass such information along to our readers.

GLOBAL POSITIONING SYSTEMS

The May issue of *The Grapevine* included an article outlining the operations and applications of Global Positioning Systems (GPS). The article concluded with a request for personal experiences from members of the CRM community currently using GPS for field reconnaissance. In response, Tom Wheaton, New South Associates, submitted a copy of an article published in the April 1992 *GPS World Magazine*. The article, entitled "Recovering History with GPS," was written by Mark Druss, formerly of the BLM, Boise, Idaho. The article detailed his experiences with GPS while conducting a 40,000-acre archaeological survey which recorded more than 600 sites. *The Grapevine* has contacted Dr. Druss and he has agreed to write an article for our August issue concerning his past and ongoing experiences with GPS.

PUBLICATIONS

The Kuhlman Mound Group and Late Woodland Mortuary Behavior in West-Central Illinois. Edited By Karen A. Atwell and Michael D. Connor. This report details excavations at a large burial site dating to AD 600-900. Over 250 burials were recovered in five of the project's defined areas. Available through The Center for American Archeology Press, Kampsville (350pp, \$15.95).



Cultural Variability in Context. Edited by Mark F. Seeman. A collection of papers presented at the 54th Annual Meeting of the Society of American Archaeology (1989), which document and explain the varied settlement and subsistence practices found in the prehistoric mid-Ohio Valley during the Woodland Period, ca. 100 B.C.-A.D. 1000 (128pp, \$14.50 + \$3.00 S&H). Available through The Kent State University Press, Kent, OH 44242, ☎ 216-672-7913.



The Profile Papers. Compiled by Patrick H. Garrow and George S. Lewis. The Society for Georgia Archaeology, Special Publication Number 1. This publication is a compilation of all of the technical articles that appeared in the newsletter for the Society of Georgia Archaeology from 1968 to March 1992. The 83 articles included in *The Profile Papers* are, with few exceptions, about aspects of Georgia archaeology (124 pp). Price: \$10.00 - Members, \$12.00 -

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CALENDAR OF MEETINGS

June 18-21 - New England Antiquities Research Association Conference, Brown University, Providence, RI. Theme: Americans Before Columbus.

August 6-8 - Society For Commercial Archaeology, Conference, Los Angeles, CA. Theme: "Driving In and Moving Out: Auto Mobility in Postwar America." Contact H. Lee David, 4901 Murietta Ave., Sherman Oaks, CA 91423, ☎ 818-788-3533.

October 21-24 - Southeastern Archaeological Conference, Little Rock, AR. Deadline for proposals August 1, 1992. Contact John House, PO Box 136, UAPB, Pine Bluff, AR 71601, ☎ 501-535-4509.

Nov 5-8 - Eastern States Archaeological Federation, Annual Meeting, Pittsburgh, PA. Contact Richard George, Carnegie Museum Annex, 5800 Baum Blvd, Pittsburgh, PA 15206-3076, ☎ 412-665-2600 FAX 412-665-2751.

November 20-21 - First Discovery of America: A Conference on Ohio's Early Inhabitants, Columbus, OH. Sponsored by The Ohio Archaeological Council, the conference will be held at the Ohio Historical Center. The theme will be research on the Paleo-Indian and Early and Middle Archaic periods. Contact: Bill Dancey, OAC Conference Coordinator, Dept. of Anthropology, The Ohio State University, 245 Lord Hall, 124 W. 17th Avenue, Columbus, OH 43210-1364.

Non-members. Special prepublication prices: \$8.00 - Members, \$10.00 Non-members (+ \$2.00 S&H). Available September 1, 1992. Contact: ATTN Profiles Papers, Garrow & Associates, Inc., 3772 Pleasantdale Rd., Suite 200, Atlanta, GA 30340.

Chris Jackson and Kimberly Burkhart, of Cincinnati, OH, were married May 23, 1992, in Bedford, IN.

FOR YOUR INFORMATION

Amy Spies has joined the staff of the Illinois Historic Preservation Agency. Amy is assisting with the tremendous volume of State 707 recordation and documentation.



Garrow & Associates, Inc., announce four new additions to their staff. **Daniel Elliott**, **Dr. Robert Fryman** (former Director, Museum of Ceramics, East Liverpool, OH), and **Garry Guan** (Ph.D. candidate, University of Pittsburgh) have joined the staff as Principal Investigators. **Geraldine "Poppy" Baldwin** (University of London) has joined the staff as a Field Director.



Gray & Pape, Inc., announces the opening of their new Richmond, VA office, managed by **Mark Wittkofski**, formerly of the staff of the Virginia Department of Historic Resources, (see corporate listing for address & phone number).



Tom and Pat Baker, of Atlanta, GA, are pleased to announce the birth of their daughter, Catherine Louise, born June 8th.

CORPORATE PROFILES

AF CONSULTANTS, a woman-owned consulting firm headed by **Dr. Lesley M. Drucker**, specializes in cultural resources services for public and private clients in the southeastern United States. Based in Columbia, South Carolina, the company provides overviews, archaeological and historic architectural surveys, site testing, data recovery, National Register nominations, and public education. AF Consultants maintains a small staff with expertise in prehistoric and historic archaeology, education, and journalism, and conducts joint projects with other small specialty firms in its region. Consultant specialists in history, architecture, geology, and other fields are brought in as needed.

Since 1989, AF Consultants has completed a number of historic preservation and education projects in the southeastern United States, primarily focusing on the Carolinas and Georgia. Major projects include documentation, inventory, mapping, and testing of coastal plantation slave quarter sites; mapping and testing of prehistoric sites on national forests; settlement studies for industrial, residential, commercial, agricultural, and highway areas; design and instruction of community short courses; and publication of a Sec. 106 compliance handbook for the business community. Inquires about AF Consultants can be addressed to 6546 Haley Drive, Columbia, South Carolina 29206, ☎ 803-787-4169.

JOB ANNOUNCEMENTS

GRAY & PAPE, INC., has a position open for an Assistant Laboratory Director/Analyst. Position requires minimum B.A. or B.S. in anthropology or related field, thorough background in historic artifact analysis, and supervisory experience. Knowledge of prehistoric artifact analysis and database management skills preferred. Competitive salaries, as well as a benefits package and profit-sharing retirement plan for qualified personnel. Send vitae to:

Gray & Pape, Inc., 1318 Main Street, Cincinnati, OH 45210.

For information contact Jeanne Harris ☎ 513-287-7700.

REQUESTS FOR INFORMATION

Beverly Bastian, assistant review editor for *The Public Historian*, has issued a request for information on new historical archaeology gray literature for potential review in *The Public Historian*. If you have an historical archaeology report you wish to submit for review, please contact Beverly at the following address:

Beverly E. Bastian
The Public Historian
Department of History
University of California, Santa Barbara
Santa Barbara, CA 93106
☎ 805-893-3620

GEOGRAPHIC INFORMATION SYSTEMS

By: Robert C. White, Jr.

Personal computer software and database managers have been in widespread use for several years now, but only recently have the specialized programs, known collectively as "Geographic Information Systems" (GIS), been available in the PC environment. Previously, these programs could cost tens of thousands of dollars and would run only on large computers. In 1992 the average price of sophisticated GIS software (without data) is within the three to five thousand dollar price range.

GIS is a natural technology for cultural resources management, since each item of information is usually linked to a specific location on the ground, often at varying depths below the surface. In a GIS system, the user can point to a site on the screen, and bring up specific information about that site. Traditional database managers really have no concept of three dimensions and are poor tools, when used by themselves, for cataloging, displaying, updating, and interpreting cultural resource information.

GIS addresses this problem by linking each piece of data to its corresponding location on a map. A GIS then provides the capability to ask questions about both the map and the underlying data. For example, assuming you have a database of existing sites on a map, you can ask a GIS system to delineate Paleo-Indian sites within 50 meters of a spring head or a 1st order stream that are situated on a certain soil type. The GIS can be used not only to catalog existing sites, but also to identify potential new sites or to examine interrelationships between sites.

The type of questions asked of a GIS are limited only by the creativity of the user, and the quality and quantity of data put into the computer. Once cultural resource data have been loaded into a GIS, the data can be queried, viewed and interpreted in ways never before feasible.

Judy Bense, Phd, and M.J. Smith, Phd, two investigators at the University of West Florida Archaeology Department in Pensacola, are taking a systematic approach with a GIS system to catalog known sites and identify sensitive areas in the Florida panhandle. Input data include the Florida Archeological Site Master File, soil types provided in digital form from the US Soil Conservation Service, slope information and planimetric data from the USGS, flood plain data from FEMA, and manual input of field surveys.

Benefits of their research include a streamlined review process for plans submitted by developers to the state of Florida. Any time a developer proposes a project that disturbs the ground, the state requires an authorized group to perform an archaeological review to determine the sensitivity potential of the proposed development area. A GIS system loaded with appropriate data can provide an overview of the potential of a given area, and more importantly an idea of what information still needs to be collected. Therefore, the GIS can be used to plan the costs of field surveys and to increase efficiency.

For reviews, the GIS also fulfills a variety of presentation requirements, including the ability to display the entire state of Florida for a generalized map, a more detailed county map, and, finally, a detailed site map in three dimensions. Under the old system, transect lines and shovel tests were recorded on paper and then later inked in.

Under the new system, the map is digitized into the computer using "real world" coordinates so that the map displays in true position relative to other information such as soil type or flood plain information in the GIS database. Using this technique, researchers can create a wide variety of map overlays that incorporate all or part of the underlying data.

The University of West Florida's system has an interesting capability which permits three dimensional modeling of a site. To create the model, the user first digitizes the site contours using a digitizing tablet attached to the computer. The resulting "fishnet" can be displayed or rotated from the viewpoint of any remote vantage point. Moreover, a user can set up a plane in the GIS to slice through the model at a user-specified elevation. The result is an interpolated contour line generated in seconds that would have otherwise been

cumbersome to digitize. The contour line can also be used in plan view with diagrams appropriate for that elevation.

Although a GIS system can be a powerful tool, in reality it is difficult and requires sustained effort to set one up. The trend in the software manufacturing business is to make these systems as generalized as possible to serve as large a market as possible. This means that you can't expect to pick one up at the local discount software store. Rather, you pick a package that has a reasonable reputation and that can be readily customized.

For repetitive tasks, you will need a good consultant or an expert on staff to customize and maintain it. There is a false economy in going through ten lengthy steps to accomplish a particular task, for example creating a standard set of overlays for cultural resource management, when a sharp programmer can write a macro to accomplish the same task in a single step from a custom menu.

There is also considerable confusion concerning the distinction between a Geographic Information System such as Arc/Info and a drafting package such as AutoCAD. Originally, the distinction was that Arc/Info relates map features together and ties them directly to a database, while a CAD package makes files consisting of line work only. Over the past 18 months or so, the distinction has blurred, particularly with Arc/Info's recent announcement of a package for AutoCAD that will add most of Arc/Info's capabilities.

Finally, the quality and quantity of data are often the most overlooked and, yet in the long run most expensive, part of a GIS system. The federal government offers a wide range of digital information from soil survey data to roads, lakes, and rivers to survey benchmarks for the cost of reproduction. Unfortunately, these data are often in bizarre formats on byzantine media.

The costs of downloading and converting raw map data to a form useable on your GIS may far exceed the original cost of the data. As a general rule of thumb, the cost of a data file also increases exponentially with decreasing scale. For example, the United States Geological Survey publishes raw map data at the 1:2,000,000 scale on a compact disc containing roads, hydrography, and political boundaries for about \$30. Similar data files exist, of course in an entirely different data format, at the 1:100,000 scale from the United States Census Bureau (Tiger Line files). Each state costs \$250.

On the other hand, acquiring data from a relatively small 1:500 map can run in the thousands of dollars on account of the high degree of accuracy required. Federal agencies generally do not have large databases of maps at these scales, which means having to create them from scratch using various digitizing and quality control techniques or hiring a contractor to perform the work.

Many high-quality databases such as public land surveys, oil and gas wells, private benchmarks, or detailed street maps are available from private-sector sources. Such files typically command higher prices since they are constantly updated, marketed, and supported. The private sector also lacks the tax dollar subsidies that federal and state agencies often enjoy. Data from a private source is also not owned by the GIS user, but rather licensed to run on one computer or network.

GIS systems will become increasingly more powerful and widespread in the years to come. The development costs, quality, and availability of map data remain the big issues. In the cultural resources field, agreements to share development costs and databases will increase the overall benefit to everyone using a GIS for cultural resource management.

Robert C. White, Jr., President, The WhiteStar Corporation, 333 W. Hampden Ave, Suite 604 Englewood, CO 80110. The WhiteStar Corporation specializes in computer map databases.

Grapevine Update..

During our six months of publication, *The Grapevine* has received subscriptions from 39 states, and two Canadian provinces. Introduction to our newsletter has been achieved by sending complimentary copies to approximately 2000 corporations, individuals, institutions, and government agencies involved in CRM. Responses to *The Grapevine* have been very positive. Over 40 percent of our subscriptions are from consulting firms; 34 percent are from individuals; and 25 percent are from institutions, government agencies, and other associated companies (potential clients).

Unfortunately, the subscriptions received to date are not sufficient to maintain the publication of the newsletter. We are renewing our efforts to promote circulation by enlarging our mailing list. Furthermore, we are taking on a more aggressive advertising campaign, in the hopes that added revenue generated by advertising will supplement production costs.

The Grapevine could use our readers' help to increase circulation, and thus enable us to continue to bring you current CRM news. If anyone has a mailing list they would be willing to share, it would be greatly appreciated. Share personal copies with friends, colleagues, and clients. Any help will be welcomed.

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The Grapevine

Subscription Information

CORPORATE LISTINGS:

\$30.00 Each corporate subscription is entitled to be included in the newsletter's corporate listing for one year. This corporate listing, giving address, phone number, and contact person, will be printed at the back of each monthly issue.

INDIVIDUAL RATES:

\$20.00 An individual subscription includes one free monthly classified ad per year (request for information, special services, job announcement, or position wanted).

ACADEMIC/GOVERNMENTAL RATES:

\$15.00 This newsletter is designed for private sector contractors. However, our colleagues from academic and governmental sectors are welcome to subscribe.

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