

The Grapevine

Newsletter

December 14, 1992

FOR CULTURAL RESOURCES MANAGEMENT

Vol 2:11

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STATE NEWS

Connecticut

In the most recent publication of *Local Preservation*, prepared by the National Park Service, the featured article was "Subdivision Regulation and Historic Preservation." This article provides guidance for the protection of archaeological resources at the local planning level. In particular, the document highlights the well-crafted subdivision ordinance of the Town of Ledyard, Connecticut. This ordinance, which was detailed in a previous issue of *The Grapevine*, was a recommended approach for protecting archaeological resources. The Town of Ledyard's subdivision regulations reflect the professional cooperation of the Mashantucket Pequot Tribe, the office of the State Archaeologist, and the Ledyard Town Planner.

Maryland

The Maryland Historical Trust, an agency of the Department of Housing and Community Development, is now accepting applications for the 1993 (Fiscal Year 1994) Historic Preservation Grant Fund. The application deadline is December 31, 1992, for grant funds available after July 1, 1993.

The maximum grand award is \$40,000 and nonprofit organizations, local jurisdictions, business entities, and individuals may apply for these matching funds. Funds may be used for pre-development and development activities associated with the acquisition, rehabilitation, or restoration of historic properties listed in or eligible for listing in the Maryland Register of Historic Properties, or for a variety of historic preservation research, survey, education, and promotion activities.

For further information, applications, and copies of the Open Project Selection Criteria, contact William J. Pencek (Capital Projects) or Michael K. Day (Non-Capital Projects) at the

Trust, Division of Historical and Cultural Programs, 100 Community Place, Crownsville, MD 21032-2023, or call 410-514-7600.

Wyoming

The Office of State Archaeologist is in the process of going through the entire University of Wyoming Archaeological Collection to provide a comprehensive inventory of all artifacts from more than 25,000 sites presently curated at the university. This inventory is needed by the curation facility, and by several federal agencies who curate under a federal antiquities permit and the curation agreement (Memorandum of Understanding [MOU]) with the University of Wyoming. During preliminary preparation of this inventory, it was recognized that copies of field notes for collections are not being submitted for curation and storage with the artifacts. This requirement is noted in Statement 11 of Attachment A in the 1990 curation policy, which is an integral part of the MOU and federal permit.

Field notes contain more detailed information about sites and their artifacts than are reported in CRM reports. Therefore, to ensure that all information about collections is available, field notes for each collection must be submitted.

Judy Brown, Curator, recognizes that in the past this policy was not strictly enforced. However, in an effort to rectify this situation, permittees will need to include field notes with their future submissions in order to receive certification to federal agencies that the curation requirements have been fulfilled. Furthermore, submission of field notes for collections submitted prior to 1992 would be greatly appreciated.

If you have any questions, consult the stipulations on your federal permit. If further questions arise, please contact Judy Brown, Office of State Archaeologist, Department of Anthropology, University of Wyoming, PO Box 3431, Laramie, WY 82071, ☎ 307-766-5301.

PUBLICATIONS

Announcing *Lithic Technology*, a new journal published biannually by the University of Tulsa. This journal features lithic analysis manuscripts, requests for or exchanges of information, and announcements on upcoming conferences, knap-ins, and other lithic events. Annual subscription rate is \$17.00. Send to: George H. Odell, Dept. of Anthropology, University of Tulsa, Tulsa, OK 74104-3189, ☎ 918-631-3082 or FAX 918-631-2540.

Exploring Gender Through Archaeology: Selected Papers from the 1991 Boone Conference, Cheryl Claassen, ed., Monographs in World Archaeology, No 11. Prehistory Press, Madison WI, 1992, 174 pp., \$25.00 (paper).



Houses Beneath the Rock: The Anasazi of Canyon De Chelly and Navajo National Monument, David Grant Noble, ed., Reprint. Ancient City Press, Santa Fe, NM, 1992, 60 pp., \$7.95.

CALL FOR PAPERS

The Tenth Annual Kentucky Heritage Council Archaeological Conference will be held February 27-28, 1993 at the University of Kentucky, Lexington. Those interested in presenting papers should send an abstract no later than January 4, 1993, to:

David Pollack
Kentucky Heritage Council
300 Washington Street
Frankfort, KY 40601
☎ 502-564-7005



American Airpower Heritage Museum and Midland College announce an International Symposium entitled A SLEEPING GIANT AWAKES to be held November 11-13, 1993, in Midland, Texas. Proposals are invited from individuals or groups to deal with issues relating to the United States' experiences in World War II on both the battle front and home front. Deadline for proposals is March 15, 1993. Notification of preliminary acceptances will be given by May 1, 1993. For further information contact:

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THE ARCHAEOLOGIST AS A SURVEYOR

By Jim Henson

Although the relationship may not be obvious at first, most archaeologists must take a page from the surveyor's manual in order to perform his/her tasks in the field. If a large portion of allotted time is spent locating points in relation to a baseline or grid, maybe you should take a page from the surveyor's field book, as well. That is, his electronic field book.

Over the course of the last seven or eight years, new technology has eased into the surveyor's arsenal of tools, eliminating many hours of drudgery, recording, computing, calculating, and plotting for a typical topography project. You may or may not call your product a topo, but in reality, the two tasks are similar.

The ideal system to perform this work efficiently would include the following components: an electronic total station (with accessories), an electronic field book (data collector), mapping/plotting software on a reasonably powerful computer, and a high speed plotter.

The total station should be of at least 10 second angle accuracy, with a built in electronic distance meter (EDM), digital display of angles and distances, with a data port to send information directly to an electronic field book for storage.

The electronic field book is the link between the field and the office. Since the data is transferred electronically, directly from the total station, reading and recording errors are virtually eliminated. A brief description or code may be entered to identify each point and the unit may calculate the coordinate value of each shot in relation to a baseline or other coordinate system. Additional calculations may be performed on the field data, such as inverse, area, and intersection calculations. The information stored in the collector may then be transferred (directly or via a modem) into the office computer. Since this procedure is electronic, the manual entry and transpositional errors are eliminated and the time involved in the transfer is a few minutes instead of several hours.

A good mapping/plotting software package should allow the point coding done in the field to be automatically translated in the program library into standard symbols for plotting, thus arriving at a completed site drawing with a minimum of hand drafting. With practice, a rough plot may be obtained in approximately a half hour. The time involved in the final plot is dependent on the detail required in the drawing.

A 'field to finish system' as described is capable of saving 50-75% of the time normally involved in completion of a topo project, depending on the skill level of the crew and field conditions.

This brings to mind one of the most important factors in using this equipment. Training! This aspect cannot be over-stated. The instructor must have a thorough understanding of the use of the equipment under field conditions. This may mean the

CALENDAR OF MEETINGS

January 6-10 - Society for Historical Archaeology, Annual Conference on Historical and Underwater Archaeology, Kansas City, MO. Contact William Lees, 120 W. 10th, Topeka, KS 66612-1291, ☎ 913-296-2625.

February 27-28 - The Tenth Annual Kentucky Heritage Council Archaeological Conference will be held at University of Kentucky, Lexington, KY. For further information contact: David Pollack, Kentucky Heritage Council, 300 Washington Street, Frankfort, KY 40601, ☎ 502-564-7005.

If you have a meeting you would like to include on our calendar, The Grapevine will be glad to list it for you. Please remember to submit your listing by the 10th of each month.

difference between professional graphics production in a few weeks or spinning your wheels for six months.

If you would like further information on 'field to finish surveying systems,' contact Jim Henson, Ellerbusch Instrument Company, Cincinnati, OH, ☎ 800-582-2644. Our area of operation is approximately a 100-mile radius around Cincinnati.

ARCHAEOLOGICAL APPLICATIONS OF THE LEITZ TOTAL STATION

By John W. Picklesimer

We at Gray and Pape, Inc., have been using the **Leitz Set 5**, the **SDR-33 Data Collector**, and **Sokkia's Map 4.0** software for approximately two years now. We are not completely familiar with all the potential applications made available by

this extremely versatile set of equipment, many of which are not applicable to archaeological field work. As with any piece of high-tech equipment, you learn something new everyday. However, with a minimal amount of training and practice, these three products have become an efficient and indispensable mapping tool for our company. The use of these has alleviated a great deal of the tedious work associated with the generation of site plan views and topographic maps. When used in concert, the three previously mentioned products allow for the production of a report-quality topographic site map in a matter of hours.

All the information necessary for the electronic generation of topographic maps and plan views is collected and stored in the Data Collector while in the field. User-defined feature codes allow for all major features (i.e., buildings, trees, units, and trenches) to be shot in with the transit, and stored in the Data Collector. The topographic information for each point is also calculated and stored in the Data Collector.

Once the field work has been completed, the information gathered in the Data Collector can be transferred into the Map 4.0 software utilizing an ordinary parallel port; however, the software should be loaded onto a computer with a least a 80386 16mhz processor (the faster, the better). Once these data have been transferred, the remainder of the computations and drawing are handled by the software program, allowing for almost instant production of topographic and plan view maps of the entire site area.

Prior to producing a hardcopy of the map, the entire plot can be previewed for accuracy on the computer monitor, and in the event that there are any discrepancies, the data can be edited in both text and graphic modes. This feature allows for the deletion, addition, and modification of all the collected data. Additional information from previous phases of the investigations can also be added to the plot as either text or graphical information, allowing for the generation of an extremely comprehensive rendering of the site area, and the investigation methods utilized.

Once all of the necessary corrections have been made, the final product can be plotted out utilizing a multi-pen plotter, which allows for the use of a variety of colors for differentiation between symbols, investigative phases, and



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major and minor contour lines. Although a normal laser printer can be utilized for the production of the output, it has been our experience that the plotter performs this task much more efficiently, and provides a clearer hardcopy version of the final product.

The use of this equipment requires training, as well as a certain period of time necessary to become familiar with all the features available to the new user. The equipment quickly paid for itself by dramatically cutting data-handling and production time. This time saving occurs in the field, with the elimination of hand-written notes, and in the office with the automated calculation of topographic data, and the computer generation of camera-ready graphical images. This equipment may not be needed by all contracting companies or academic institutions, but in our situation, it has proven efficient and has become an essential piece of field equipment.

ARCHAEOLOGICAL EQUIPMENT FOR SALE OR RENT

ARCHAEOLOGICAL SOIL FLOTATION DEVICE

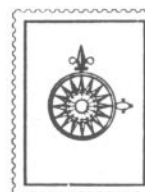
These flotation devices are perfect for recovering the small artifact, floral and faunal remains that go right through your screens. In use throughout the world, they are built largely of plastic for lightweight durability. They can be operated using any standard garden hose. A single operator can process hundreds of liters of soil per day. The device comes fully assembled and complete with instruction manual, bung tool, one heavy fraction collector, and one light fraction collector. Two sizes are available: 50 gallon (\$350.00) and 30 gallon (\$350.00) capacity. Also available are a Bucket Flotation System, Finder Probes, and extra heavy & light fraction collectors. For further details and free brochure contact: William Sandy, RR 3, Box 120, Newton, NJ 07860 ☎ 201-383-6355

POST CARDS FROM THE EDGE OF THE FIELD

Dear Fred,

Thank you for sending along the per diem and the xeroxes of the Munsell sheets, they should be very helpful. We have rigged the pipestem bore bits to a Black & Decker. This should take care of our dating problems. Do you remember that Suburban we used to have? Well, it kinda broke so we traded it to these really cool guys we met at a Dead concert. The Microbus has lots of room and never needs coolant (unlike the Suburban).

See ya soon, Syd



Fred La Boss
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