



The Grapevine Newsletter



Volume 7:09

For Cultural Resources Management

September 1997

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State News

Alaska

Alaska's Office of History and Archaeology Online

The Alaska Division of Parks and Out Door Recreation Office of History and Archaeology (OHA) now has its own web page. Visit OHA's web page at <http://www/int/parks/oha/index.htm>.

National Historic Area in Aleutians Designated

The Aleutian Campaign in World War II dramatically touched the lives of tens of thousands of American, Canadian, and Japanese troops and civilians. The bombing of Dutch Harbor in 1942, the Battle of Attu, and the invasion of Kiska Island in 1943 were crucial events of this campaign, an offshoot of the Battle of Midway and the larger war in the Pacific. These events forced the relocation and internment of over 800 Aleuts for the duration of World War II. The internment, a national disgrace and tragedy, led to the death of nearly 8 Aleut leaders and elders, which had a devastating effect on Aleut culture and demographics in the Aleutians. For thousands of years, the rich natural resources of these windswept, yet magnificently beautiful islands, have provided sustenance for the Aleuts.

Section 513 of the Omnibus Parks and Public Lands Management Act of 1996 (H.R. 4236) designates an 81-acre parcel of land at Ulakta Head, Unalaska, an Aleutian World War II

National Historic Area. During the war, Ulakta Head formed the kingpin of the defensive iron ring around Unalaska Bay. The site is within the boundaries of the Dutch Harbor Naval Operation Base and the U.S. Army Fort Mears National Historic Landmark (designated in 1987). It retains very high integrity as a nationally significant cultural landscape.

The Unalaska Corporation plans to establish a World War II visitor center in Unalaska in conjunction with the area and use other properties and sites around the city to interpret the resources on Ulakta Head. Local and statewide groups, among them the Alaska Historical Commission, supported the designation.

Missouri

Archaeology Month

September is Archaeology Month in Missouri. The Missouri Department of Natural Resources; Historic Preservation Program (HPP) and the Missouri Archaeological Society (MAS) are please to announce the cosponsorship of this second annual event. For a free full color poster and calendar of statewide public programs and events call 573-751-7860 or write HPP, PO Box 176, Jefferson City, MO 65102.

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Conference Calendar

September 18-20, 1997 - Afro-American Historical and Genealogical Conference at the Marriot at Metro Center, 775-12th Street, N.W., Washington, DC. Call Barbara Walker for information 202-829-8970.

September 18-21, 1997 - Rocky Mountain Anthropological Conference will hold its third biennial meetings at the Holiday Inn in Bozeman, Montana. For more information, contact John W. Fisher, Jr., Department of Sociology, Montana State University, Bozeman, MT 59717-0238; 406-944-5250; FAX 406-994-6879; E-mail isijf@msu.oscs.montana.edu.

September 18-21, 1997 - The Society for Commercial Archaeology (SCA) will hold its conference celebrating the resort architecture of the 1950s in Wildwood, NJ. To receive a conference brochure, write or call Daniel Vieyra, conference chair, 3290 Warrington Road, Shaker Heights, OH 44120-3379; 216-751-8288.

September 19-21, 1997 - American Cultural Resources Association (ACRA) conference will be held in St. Louis, MO. Contact: Tom Wheaton, c/o New South Associates, Inc., 6150 Ponce de Leon Avenue, Stone Mountain, GA 30083; 770-498-5159.

October 1-4, 1997 - American Association of State and Local History Annual Meeting will be held in Denver, CO. For further information, contact Susan Goodell, AASLH, 530 Church Street, Suite 600, Nashville, TN 37219; 615-255-2971; E-mail aaslh@nashville.net.

October 2-5, 1997 - The Second Annual East Carolina University Civil War Symposium: Art, Artifacts, and Uniforms of the Civil War will be held in Greenville, North Carolina. Contact Civil War Symposium, Division of Continuing Studies, East Carolina University, Erwin Building, Greenville, NC 27858-4353; 919-328-6143 or 800-767-9111; FAX 919-328-1600.

October 15-19, 1997 - National Trust for Historic Preservation Annual Meeting will be held in Santa Fe, NM. Contact: National Trust, 1785 Massachusetts Avenue NW, Washington, DC 20036; 202-747-6455.

October 24-25, 1997 - Constructing Identity: Between Architecture and Culture is a conference addressing political, social, and historical issues. For more information contact HAUS, 143 E. Sibley Hall, Ithaca, NY 14853.

March 25-11, 1998 - the 63rd Annual Meeting of the Society for American Archaeology will be held in Seattle, WA. Contact: the Society for American Archaeology at 900 Second Street, N.E., #12, Washington, DC 20002-3557, telephone 202-789-8200; FAX 202-789-0284; or E-mail meetings@saa.org.

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Managing Editor: W. Kevin Pape
Newsletter Editor: E. Jeanne Harris
Copy Editor: Lora L. Anderson

Editorial address:

The Grapevine
1318 Main Street
Cincinnati, OH 45210
Telephone 513-287-7700
FAX 513-287-7703
E-mail: Ejharris@aol.com or
Gray_Pape@compuserve.com

Call For Papers

Eighth Annual Southern Appalachian Man And the Biosphere (SAMAB) Conference

**November 5- 7, 1997
Holiday Inn Sun Spree,
Gatlinburg, Tennessee**

The planning committee for this year's conference invites you to submit abstracts that emphasize 'Working with Communities.' We want this to be an educational event and a working meeting of community leaders, private organizations, industry, land managers, government agency representatives, scholars, and students. Our intent is to share information and to work with our communities to promote sustainable development and healthy ecosystems in the Southern Appalachians.

Topics for concurrent sessions, workshops, symposiums, and poster sessions include but are not limited to the following:

- * Ecosystem Restoration
- * Natural Resources Management
- * Riparian Restoration, Ecotourism
- * Environmental Education
- * Research and Monitoring
- * Exotic Species and/or Native Plants
- * Cultural Heritage
- * Sustainable Community Development
- * Environmental Coordination
- * Community-based Environmental (NEPA and ESA) Protection

Guidelines for Papers and Presentations:

Individual presentations must not exceed 20 minutes. Those wishing to make a presentation are requested to send their 1-page abstract by E-mail or FAX (use plain font so that we can scan the text), or send hard copy to the address below. Please include a cover sheet with: author(s); phone number; FAX number; E-mail address;

affiliation/organization; and a description of your audiovisual needs in the text of your message. Also indicate your subject area. All abstracts must be received no later than September 30, 1997. We will include printed abstracts in the conference materials. Please mail abstracts to:

SAMAB Annual Conference
1314 Cherokee Orchard Rd.
Gatlinburg, TN 37738

Phone: 423-436-1701
FAX: 423-436-5598
E-mail: samab@ix.netcom.com

Society for History in the Federal Government

1998 Annual Meeting

The annual meeting of the Society for History in the Federal Government (SHFG) will be held on Thursday and Friday, March 19-20 1998, at Archives II, National Archives and Records Administration, College Park, Maryland. The theme of the meeting will be "Interpreting Federal History: Documents, Artifacts, and Structures."

Members may submit proposals for complete sessions or individual papers on topics of general interest to Society members. Nonmembers may also submit proposals but must pay the non-members' registration fee to attend the meeting. Proposals should include a 1-page abstract of the session or paper and brief resumes of proposed participants. In 1998, the Society will launch publication of a series of occasional papers. Speakers at the annual meeting will be encouraged to make their manuscripts available upon request for consideration by the editor of this series.

The deadline for submissions of proposals is November 15 1997. They should be mailed to:

SHFG 1998 Program Committee
Society for History in the Federal Government
Box 14139 Ben Franklin Station
Washington, DC 20044-4139

Conferences

Afro-American Historical and Genealogical Conference

This is a reminder to register for the upcoming AAHGS (Afro-American Historical and Genealogical Conference). Call Barbara Walker for information 202-829-8970. Her E-mail address is BADBDW@aol.com. The conference will be September 18-20, 1997, at the Marriott at Metro Center, 775-12th Street, N.W., Washington, DC, 800-228-9290. Some of the workshop topics are:

- * Did Slavery Destroy the Black Family?
- * Black Church History
- * Historic Black Communities in Baltimore County, MD
- * The Darkest Tears on the Trail of Tears
- * The Nitty Gritty of Slave Ancestral Research
- * The Rosewood Story Caribbean Research
- * The Family History Library
- * Neglected Records at the Alabama
- * Archives for Researching African Americans
- * many workshops on the Civil War involvement of African Americans

Internet News...

The American Association for State and Local History (AASLH) has a new website address: - www.aaslh.org and a new e-mail address: aaslh@aaslh.org.

Archaeological Field Supervisor

Responsible for overseeing and supervising day to day field work. This individual must have the ability to manage and organize all field notes and maps for final report preparation. Applicants should have an M.A. in anthropology or related field, two years experience in a supervisory capacity, and demonstrated abilities in completing medium to large scale archaeological projects. Knowledge of surveying methods, field photography, mapping (CAD, Surfer). ASC offers a competitive salary, a benefits package (health, dental, life, 401(k), and a bonus program). Interested applicants should forward a cover letter and resume, writing samples, and three references to:

Michele Haller
ASC Group, Inc.
 4620 Indianola Avenue
 Columbus, Ohio 43214
EEO/AAP

Job Announcements

Immediate Opening: Computer Graphics Specialist

The William & Mary Center for Archaeological Research is soliciting applications for the position of Computer Graphics Specialist. We seek an individual proficient in using graphics software to produce maps and other drawings for technical reports. The applicant must have experience using AutoCad version 12 or higher, Corel Draw and Photopaint, and be familiar with ArcView and ArcInfo, scanning, and digitizing. Important qualifications are good organizational skills, attention to detail and accuracy, and an ability to work within deadlines.

This is a full-time, salaried position that includes health benefits. Competitive salary is based on experience and training. Submit resume and letter of interest to Dennis Blanton, Center for Archaeological Research, The College of William & Mary, P. O. Box 8795, Williamsburg, VA 23187-8795. FAX: 757-221-2564, Phone: 757-221-2584, email: dbblan@facstaff.wm.edu.

The Santa Barbara Trust for Historic Preservation

Curator

The Santa Barbara Trust for Historic Preservation seeks a curator for its historic sites, including eighteenth century Spanish Presidio, nineteenth century Casa de la Guerra adobe, and recently acquired Santa Ines Mission mills. The successful applicants must have a MA with one degree in history or related fields, specialty in European/Spanish Colonial/Mexican/Borderlands history; two years museum employment and training; and the ability to speak, read, and write Spanish. Curator will be involved with planning, acquisition, care, display, use and interpretation of collection. This person will be under supervision of Executive Director and Chief Curator, in conjunction with education and living history programs. This person needs to be outgoing,

articulate, productive, professional, and resilient. Salary: \$31,000 with benefits. Send letter of application and resume to: Dr. Jarrell C. Jackman, Executive Director, Santa Barbara Trust, P.O. Box 388, Santa Barbara, CA 93102-0388.

Director of Development

The Santa Barbara Trust for Historic Preservation seeks a Director of Development who will be responsible for creating and implementing annual and multi-year fundraising plans in support of the Trust's restoration and interpretation programs at El Presidio State Historic Park, Casa de la Guerra Adobe, and the recently acquired Santa Ines Mission mills. Director of Development will organize capital, year-end, endowment, and membership recruiting campaigns and oversee individual donor solicitation, grant writing, direct mail solicitation, fund raising events, and charitable trusts and bequests. Experience in California fundraising essential and history background desirable. Salary: \$45,000 with benefits. Send letter of application and resume to: Dr. Jarrell C. Jackman, Executive Director, Santa Barbara Trust, P.O. Box 388, Santa Barbara, CA 93102-0388.

Historian

Alaska Division of Parks and Outdoor Recreation, Office of History and Archaeology (OHA) has a position opening for a permanent part-time Historian I. The position will be available this fall to work with several Historic Preservation Fund programs. Because the state is implementing a new hiring system, individuals interested in being considered for the position should contact OHA for details on how to apply.

OHA
 3601 C. Street, Suite 1278
 Anchorage, Alaska 99503-5921
 907-269-8721
 E-mail oha@alaska.net

AVD Archaeological Services, Inc.
305 South Briton Road
Union Grove, WI 53182
414-878-0510; FAX 414-878-0717
E-mail: avd3@internetmci.com

AVD Archaeological Services, Inc., is an archaeological consulting firm located in Union Grove, Wisconsin 925 miles south of Milwaukee). We are seeking archaeologists for projects in Wisconsin and the Upper Peninsula of Michigan. Archaeological positions are seasonal and run from May to about mid-November. Employment is continuous, not project to project. We are also seeking a field director. This position may be permanent, depending on the individual. Send resumes to the Above FAX or E-mail.

Allen P. Van Dyke

Employment Opportunity

Position: Professional Archaeologist (Principal Investigator)
Starting Salary: \$30,000

Description of Work

Landmark Archaeological & Environmental Services, Inc., is seeking a qualified, self-motivated individual to join our professional staff to perform archaeological investigations for various construction projects throughout Indiana, Kentucky, and the Midwest. The successful applicant must work well alone or with other professionals, travel extensively, devote long but flexible hours to meet often unrealistic deadlines, and always maintain the highest standards of conduct personally and professionally.

Minimum Qualifications

1. An M.A., M.S. (Ph.D. preferred) and two (2) years field and lab experience in North American Prehistoric Archaeology or Historic Archaeology.
2. The ability to complete archival research, reconnaissance, testing, laboratory analysis, site forms, archaeological reports, and other related work as required in a timely manner.
3. Extensive knowledge of computers.
4. The strength of spirit to reach for excellence, the wisdom to learn from mistakes, and the courage to do what you enjoy.

Qualified applicants should respond with a resume by October 15, 1997, to:

Thomas C. Beard
President
Landmark Archaeological & Environmental Services, Inc.
5640 N. SR 421
Lebanon, IN 46052
317-758-9301
FAX 317-758-9322

Employment Opportunity

Temporary Position: Archaeological Field Technician
Starting: \$9.00 per hour, (\$20.00 per diem)

Description of Work

Landmark Archaeological & Environmental Services, Inc., is seeking 10 qualified individuals immediately to assist the principal investigator in a Phase III investigation in western Indiana. The fieldwork is ongoing and is expected to be completed no later than December 1, 1997.

Minimum Qualifications

1. B.A., B.S., or higher degree and one (1) year field experience.
2. Completion of an Archaeological Field School.

Interested applicants should respond immediately with a resume to:

Thomas C. Beard
President
Landmark Archaeological & Environmental Services, Inc.
5640 N. SR 421
Lebanon, IN 46052
317-758-9301
FAX 317-758-9322

World Monuments Watch Second Biennial List

The World Monument Watch, a nonprofit preservation group that has published its biennial list of the 100 most endangered cultural sites in the world.

This year endangered U.S. sites added to the list include:

- The South Pass Cultural Landscape in Wyoming, which lies along the Oregon Trail, is threatened by mining.
- Fort Apache, Arizona, where the U.S. Cavalry launched attacks against Geronimo and other Apache leaders, needs 29 buildings restored.

- Cliff dwellings in Mesa Verde National Park, Colo., are in danger of eroding.
- The Bodie State Historic Park, a Gold Rush settlement in California's Eastern Sierra Nevada Mountains, is threatened by mining exploration.

U.S. sites removed from the endangered list because of preservation work are: the south end of Ellis Island; the Golden Gate Park Conservatory of Flowers in San Francisco; the Eastern State Penitentiary in Philadelphia; adobe churches in New Mexico; Holy Ascension Church in Unalaska, Alaska; Lafayette Cemetery No. 1 in New Orleans; and Chaco County National Historic Park in New Mexico.

Tools of the Trade

Contributing Editor - Tim King

Digital Photography: Wave of the Future or Technological Toy?

In the last five years digital photography has made advances, in both quality and cost effectiveness, which have brought the technology within reach of the preservation community. This has raised questions concerning the use of digital data to record and archive our cultural heritage. This article will attempt to frame the debate over the use of digital formats within the preservation community, offer differing opinions on the subject from those involved in the fields of cultural resource management (CRM), conservation and photography, and conclude with some insights into the future of photography in CRM.

For thirty years CRM reports have contained photographic records of historic structures, excavation units, and artifacts. In most cases these are the only remaining images of areas that were destroyed by super highways, well pads, and pipelines. The preservation of these images is tantamount to future generations being able to evaluate the data we collected and the subsequent conclusions we reached. In SHPO offices across the country literally millions of photos lie in repose in filing cabinets. Generally, these photos are not kept in archivally stable areas. In turn many photos, glued in reports in the 70s and 80s, have fallen off their appropriate pages leaving future researchers the task of piecing together the photographic record of CRM's past.

The Internet explosion of the late 1990s has increased the popularity of digital camera technologies. Digital images can be sent relatively easily to any computer in the world connected to the web. Coinciding with the popularity of the web is the decrease

in the cost of storing digital data. Digitized photos and maps can now be stored on 100MB Zip disks or 650MB CD-Roms. In turn, this data can be readily accessible to those doing research using the so-called "gray literature." The use of digital cameras for archaeological surveys could cut costs and turnaround time significantly. Photos taken in the field could be checked for accuracy the same day they were taken and then sent over the web to the office for inclusion in finished reports. This is all well and good until we realize that at the present time digital imaging is a relatively new technology in comparison with the 100+ years traditional photography has been around. The seeming inherent instability of today's modern computer systems could to an accidental loss of photographic images with a power outage or a couple of key strokes. This takes us directly into some of the questions and reservations about using digital imaging for recording our cultural heritage.

Mike Polk, current president of the American Cultural Resource Association and owner of a CRM firm, stated during an interview for this article that he "needed to be convinced of the quality, the stability and the retrieveability of the digital data by future generations." He went on to add, "The technology looks great, but you can't go back." One of Polk's greatest concerns was the lack of quality compared to present photographic techniques and the possibility that CD-Roms and Zip disks may become the punch cards or BETA tapes of the twenty first century. In the end, Mike agreed that the possibilities for using digital are enormous, but we need to move slowly in adapting new technologies in reference to the preservation of the past.

J.M. Conway of Timemark Photo

Conservators has been a professional photographer for 50 years and has been involved in the protection and conservation of images that have been involved in disasters including the results of fire and water damage. When asked his opinion of digital images being used to store historic data, Mr. Conway stated that "the best system alive for cataloguing images was a 4 x 5 inch film format." These can be stored, enlarged, and archived very easily and they contain what the National Archives deemed necessary for photo preservation, a human readable record. This implies that using CD-Roms for archival purposes will need to be supplemented with the 4" x 5" film file format that Mr. Conway mentioned. This would most definitely lower the efficacy of using digital storage devices for historic preservation purposes. Unfortunately, for those of us in CRM we may be at the mercy of the marketplace and its decisions as to the future of traditional and digital photography.

In my opinion, an interesting comparison can be made between, the arrival of the CD in the early 1980s and the arrival of digital photography today. Compact discs were heralded as the best way to listen to recorded music. No more, pops, scratches or warps to ruin the listening experience. Yet digitally recorded music is not an exact duplicate of the original source. This led to much criticism of early CDs as being too harsh and tinny sounding. Yet despite the cries of the audio elite, within a decade the vinyl LP became a distant memory. Most of us probably have a record collection dating back to the pre-CD days, but when you go back to listen to them the experience is more of a chore than a delight. We have been spoiled by the technology. In the same way digital photography is looked upon as

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a means to replace traditional photography with an inferior product that will not have the quality of a traditional image. Instead of decrying this new medium, and in turn ignoring its obvious applications, I feel the preservation community should discuss and develop contacts within the photographic industry to voice our concerns. If we wait too long to do this we may be forced to accept what the industry and the market determine to be the "best" of the two mediums.

For more information regarding digital photography and CD-Rom Archiving and permanence and general preservation issues visit these web sites:

- Kodak Inc. @ www.kodak.com
- The CD-Info Company @ www.cd-info.com
- TDK Inc. @ www.tdk.com
- American National Standards Institute @ www.ansi.org
- Library of Congress @ www.loc.gov/preserv

Announcements

John Milner Associates, Inc., (JMA) is pleased to announce that **Dr. Joel I. Klein** has joined our staff in the capacity of Senior Project Manager in the Cultural Resources Department. Dr. Klein received his Ph.D. from New York University in 1981. Prior to joining JMA Dr. Klein served for 18 years as Manager of the Cultural Resources Group of Foster Wheeler Environmental (formerly EBASCO Environmental) where his most recent responsibilities included serving as the cultural resources lead for the Federal Energy Regulatory Commission's (FERC) environmental support services contractor. Prior to his service with Foster Wheeler he served as staff archeologist for the New York State Historic Preservation Officer and as a special consultant to the U.S. Department of Housing and Urban Development.

Texas

Herb Uecker Joins DAP Review Staff

On June 1, Herb Uecker became the newest reviewer to join DAP's staff. Herb is a native of San Antonio who became seriously interested in archeology after attending the 1966 TAS field school in Crockett County, where he excavated a prehistoric hearth with Dr. E. Mott Davis. It was Anne and Danny Fox, however, who got Herb stuck on archeology. He excavated at the Alamo and at several prehistoric sites in the Central Texas area with the Foxes and others while still a high school student. The Alamo excavation was sponsored by the Witte Museum and the Texas State Building Commission (which later became the THC). The prehistoric site excavations were undertaken by Herb's high school archeology club.

After attending Trinity University as a geology major/philosophy minor, he worked as a CRM field and lab technician from 1977 to 1980 at the Center for Archeological Research, University of Texas at San Antonio (CAR-UTSA). He again worked for CAR as a graduate teaching assistant and CRM project director at the Research Associate level from 1989 to 1992. Major projects in which he participated during his two stints at CAR-UTSA include Choke Canyon Reservoir, Coletto Creek Power Plant near Victoria, 41BX228, 41BXI, the Alamo Dome, the Dos Republicas coal mine survey near Eagle Pass, and three additional excavations at the Alamo. In 1989, he worked with Prewitt & Associates, Inc., as project historical archeologist for a major survey at Camp Bullis, and he directed the Alamo Wells Project for St. Mary's University in 1995. He has also worked at Ft. Clark in Brackettville, in San Angelo, in Laredo, at Falcon Lake, and in Hudspeth County.

"Tom Hester is my original, and long-suffering, academic mentor," says Herb, who received his B.A.

degree in anthropology from UTSA in 1989 and his M.A. in 1996. His graduate focus at UTSA was the paleoecology of Texas and the Southwest Culture Area. His undergraduate studies in geology fostered his present avid interest in geoarcheology.

Since about 1990, Herb has led several archeology "walks" and given slide presentations each year as a volunteer in public and decent education at Friedrich Wilderness Park in San Antonio, at Cibolo Wilderness Trail in Boerne, and at Honey Creek State Natural Area. He developed the archeology "walk" as a teaching format in about 1990 at Friedrich Wilderness Park. The park naturalist and other educational staffers were already using the peripatetic method for teaching ethnobotany and ecological sciences.

During his excursions, Herb talks about the different human adaptations to the local landscape, which relates very well to what visitors learn in the basic ecology and ethnobotany walks. He also carries along a small bag of demonstration materials and some chipped stone tools as teaching aids. At the end of each walk, he sets up a cardboard target and lets the group practice spear throwing with an atlatl and darts.

His slide presentation, "Ice Age to Alamo: Eleven Thousand Years of Culture History in Bexar County," has become a favorite among many groups in the San Antonio area, and he enjoys this volunteer work very much. He is currently serving as lecturer in archeology and guidebook author for the San Antonio Parks and Recreation Department's Master Naturalist Program.

Corporate Profile

"Corporate Profiles" is a service available to all corporate subscribers. The Grapevine would like to feature more of our corporate subscribers and encourages them to submit their profiles for publication.

Lab Profile for Paleo Research

Paleo Research. This archaeobotanic company has been in existence for over 25 years under the direction of Dr. Linda Scott Cummings. Paleoenvironmental and paleosub-sistence reconstruction, including paleonutrition, are emphasized. Reconstruction of both prehistoric and historic landscapes is of intense interest. Large reference collections of pollen, seeds, phytoliths, wood and charcoal are maintained at Paleo Research to facilitate the accurate identification of archaeological and modern materials. We use microcomputers for the quantification and comparison of data, as well as report production. We generate pollen diagrams using Tilia, a computer program designed especially to handle these complex diagrams, and occasionally produce even macrofloral data as a diagram. We use an imaging program on our Mac to provide images of wood cross-sections and other remains, when they are important to the report.

We examine material from a variety of sites ranging from Paleo-Indian to Historic in age, as well as acultural contexts. Geographic distribution of our work includes the continental United States, Alaska, Hawaii and various other Pacific islands, portions of Central and South America, and the Mediterranean area, as well as portions of Europe. Our work includes preparation, analysis, and reporting of pollen, phytolith, starch granule, macrofloral, PET, and protein residue data in an integrated format. Our IBM-compatible computer system facilitates transmitting reports on 3.5" disks.

Our goal is the study of man-plant relationships, an understanding of prehistoric subsistence and economy, and a definition of both prehistoric and historic environments. We seek to make constant improvements in archaeobotanic techniques and introduce new technology into the field.

We are prepared to work with archaeologists and cultural resource managers in the development of research designs to include paleoethnobotanical and paleoenvironmental questions. Further communication with archaeologists following the interpretation of ethnobotanic data will facilitate a full integration of this material with the archaeological data. Field consultation and training in sampling techniques are also offered. The final product of each project is a complete report, including appropriate pollen and/or phytolith diagrams, macrofloral tables, protein residue results tables, and an interpretation of the results.

The field of archaeobotany has changed dramatically within the past 25 years, even gaining a name that is accepted as descriptive throughout the archaeological industry. Archaeobotanic sampling (that may include such diverse remains as pollen, phytoliths, starch granules, macrofloral samples, charcoal samples, and/or fiber samples) has become an integral part of archaeology. In this relatively young field, advancements in technique and analyses are numerous.

New Techniques and Analyses:

Personnel at Paleo Research strive to do more than routinely examine and report on remains submitted. We also explore new techniques and introduce new analyses into the field. In addition to the standard reference collections for pollen, phytoliths, seeds, and charcoal, we are building starch granule and fiber reference collections. We have completed our study of all starches in our reference collection and are expanding the reference collection to include other plants that might have been utilized by prehistoric and historic people, as well as plants

expected as part of the native vegetation. We feel that starch analysis should be a routine part of both pollen and phytolith analysis, since starch granules are often recovered in these samples. Starches may be present as the result of economic activity, such as processing domesticates like maize, or native foods including grass seeds, beans, and/or starchy roots/tubers.

We are excited to participate in analysis of challenging material and to expand our capacities. The following paragraphs review some of the new analyses that we have undertaken or are developing.

We have been looking at the contents of human tooth calculus for evidence of diet through the presence of phytoliths and starch granules. Pollen is present only rarely. Occasionally fibers or hair fragments are recovered from the tooth calculus that might indicate animals processed or occupation of the person represented.

We have been developing antisera to fish as part of our expanding protein residue analysis. Initial testing indicates that we can separate families of fish and that recovery of proteins on artifacts with a possibility of having been used to process fish is good.

Charred PET starchy fragments (those anomalous-looking charred hunks of material) recovered during macrofloral analyses may be subjected to acid digestion to recover starch granules and/or silica phytoliths that assist in identifying the charred PET starchy fragments. We are charging a small amount (\$20-\$50/PET) for this analysis to cover our costs. Charred PET starchy fragments are recovered during flotation or may be sent for analysis as botanic specimens.

Identifying the presence of beans. Bean pods produce hook-shaped hairs that are recoverable and identifiable in the phytolith record. They have been recovered in abundance in Anasazi coprolites. Few phytolith samples are examined from the American Southwest or other areas of North America where beans were domesticated, so there is little evidence of the presence of hook-shaped bean hairs in features or on floors. We hope to change this through the analysis of more phytolith

Paleo Research..

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samples. In addition, charred bean hila may be recovered from macrofloral samples to indicate processing beans.

Identifying charcoal prior to radiocarbon dating. We are identifying charcoal recovered from archaeological and stratigraphic proveniences prior to submission for radiocarbon dating. The advantage is that you know exactly what wood is being dated -- whether it is a short-lived shrub or a long-lived tree. From this you should have a better idea of whether you might be dealing with an "old wood" problem or not. Dates on single types of wood generally are "tighter" than dates on the total mixed assemblage of charcoal recovered from a site.

We are providing **diatom** analysis in conjunction with any of our archaeobotanical analyses as a service to broaden paleoenvironmental interpretations.

Services Offered:

- Pollen and Starch Analysis for prehistoric and historic sites
- Phytolith and Starch Analysis for prehistoric and historic sites
- Diatom analysis for prehistoric and historic sites
- Starch and Phytolith Analysis of calculus from human and animal teeth
- Macrofloral (Flotation) Analysis for prehistoric and historic sites
- PET identification
- Individual Identifications of wood and charcoal (including radiocarbon samples prior to submission for dating.
- Protein Residue Analysis for prehistoric and historic sites
- Field Consultation and Sample Collection
- Consultation concerning Research Designs and Sampling Designs

Paleo Research
15485 W. 44th Ave., Suite A
Golden, Colorado 80403
303-277-9848 Phone
303-216-9616 Fax
e-mail: LSCummings@aol.com
Contact: Linda Scott Cummings

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Prosperity, PA 15329
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New Service

The Quick Fix



Need to know the correct magnetic declination for your site or project area? Then you better not use a USGS topo map. Declinations on USGS maps are only accurate for the year the map was made! And yes, declinations do change.

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The Grapevine
1318 Main Street
Cincinnati, OH 45210



Michael Polk
Sagebrush Archaeological Consultants
3670 Quincy Avenue, Suite 203
Ogden, UT 84403

