

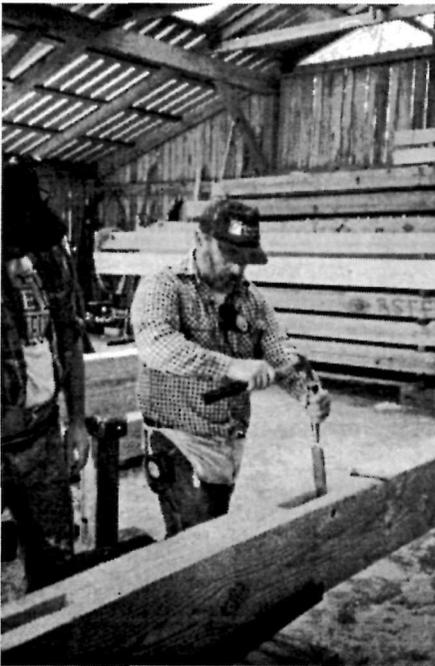
# NCPTT

NATIONAL CENTER FOR PRESERVATION TECHNOLOGY AND TRAINING



## NOTES FROM THE CENTER

MAY 1996



### FROM THE EDITOR

This edition of *Notes* from the Center focuses on preservation training.

Through the PTTGrants program, training sessions on a variety of topics have been developed and several are described in this edition of *Notes*. Training activities that the Center has undertaken in collaboration with other organizations outside the PTTGrants program also are featured. Our Preservation Profile

is of **F. Blair Reeves**, PTTBoard member, founder of the Preservation Program at the University of Florida and leading preservation educator.

The Center plans to play an important role in preservation training in

the future. During the past 18 months we have made progress in identifying organizations offering training. We intend to make information about training opportunities in the historic preservation disciplines readily accessible. Toward accomplishing this goal, training programs and workshops are now featured on our electronic "gopher" and through our fax-on-demand system.

— Fran Gale

Comments and items of interest for the next newsletter should be sent to the editor of the upcoming *Notes*, Mary Striegel.



## THE CENTER

The National Historic Preservation Act Amendments of 1992 established the **National Center for Preservation Technology and Training** at Northwestern State University of Louisiana in Natchitoches.

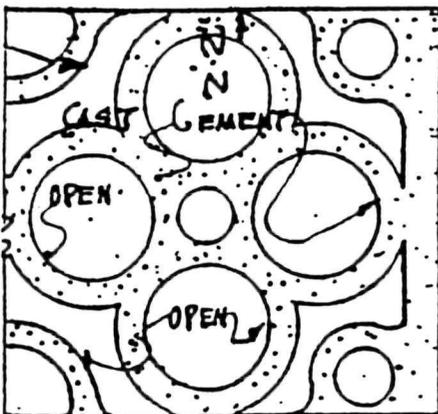
The Center and its advisory board – the **Preservation Technology and Training Board** – were organized throughout 1993 and 1994, and the Center's charter staff arrived in Natchitoches by January 1995.

The Center is an interdisciplinary effort by the **National Park Service** to advance the practice of historic preservation in the fields of archeology, historic architecture, landscapes, materials conservation, and history. The Center's mission is implemented through its three components – research, training, and information management.

The Center's **research** component emphasizes innovative, practical solutions to current preservation and conservation questions.

The Center's **training** component emphasizes preservation skills enhancement, life-long learning at all levels of preservation practice, and continuing education for preservation professionals.

The Center's **information management** component emphasizes cultural resources data management and information distribution that is innovative and appropriate for the electronic age.



## PRESERVATION PROFILES

*This feature is the seventh profile in an occasional series that highlights the careers of people who motivate and guide preservation practice in the United States.*

**F. Blair Reeves, FAIA** is a PTTBoard member, serving on its Training and Education Subcommittee and as an advisor on the Rehabilitation of the Center's new headquarters – Lee H. Nelson Hall. Reeves trained at the University of Texas and the University of Florida and began his career as an educator in 1949, teaching design, building technology and design theory at the University of Florida. In 1958 Turpin Bannister, then dean of the College of Architecture, recruited Reeves to supervise an Historic American Buildings Survey (HABS) summer field office in Harpers Ferry. Other HABS summer projects followed in Maryland, Maine, Puerto Rico, Florida and Massachusetts. Reeves served as chairman of the HABS Advisory Board and, in 1987, received the Department of the Interior's Conservation Award.

His work with the American Institute of Architects has included serving as preservation officer for local and state chapters, chairing its national committee on historic buildings, and acting as state preservation coordinator. As coordinator, Reeves involved architects in publishing a guide to Florida's historic architecture. Reeves was a founding member of the Florida Trust for Historic Preservation and chaired the state's review board for National Register nominations.

At the University of Florida Reeves used courses in architecture to teach students the techniques of architectural documentation, preservation law and regional preservation. The availability of these courses to students in other disciplines lead to the creation of the Research and Education Center in Architectural Preservation. RECAP developed a series of multidisciplinary preservation electives such as museology and photogrammetry.

In 1972 Reeves and Walter Beinecke, Jr. established the Preservation Institute: Nantucket which continues to offer graduate courses each summer using Nantucket as a laboratory. Reeves has served as a board member of the National Trust for Historic Preservation and, with Beinecke, received its Louise du Pont Crowninshield Award. In 1995 a chair in historic preservation at the University of Florida was named in honor of Reeves and Beinecke.

Among other honors, Reeves was advanced to the AIA's College of Fellows and has received the National Council for Preservation Education's Award for Distinguished Leadership, the AIA Presidential Citation, Florida Trust's Distinguished Service Award and a resolution by Florida's Governor and Cabinet for his contributions to the preservation movement in Florida.

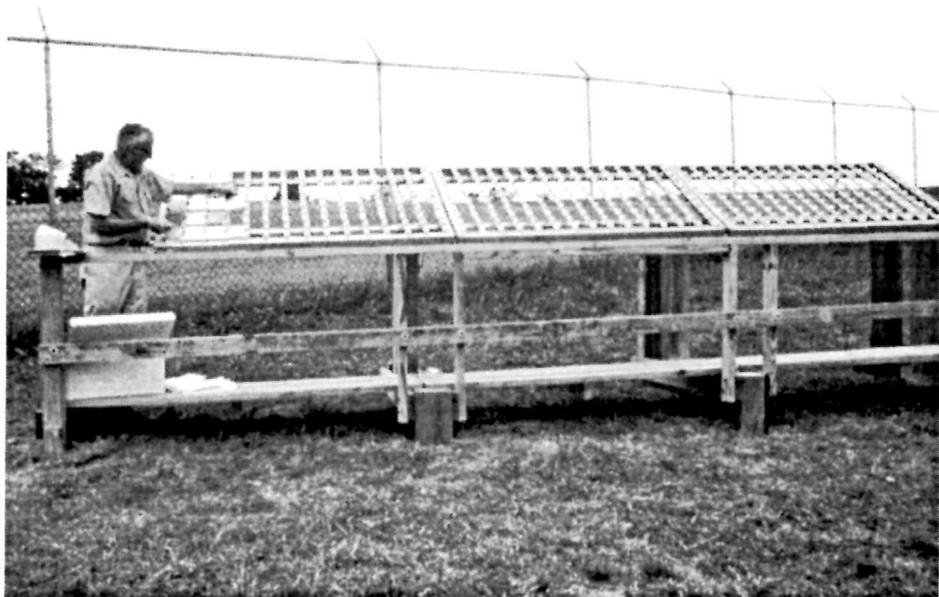
*The Center is pleased to have the opportunity to work with Blair Reeves and draw from his vast knowledge of the architectural field.*

## MATERIALS RESEARCH PROGRAM

*This article in the Materials Research Program Series highlights Karl Reimann's research at Argonne National Laboratory – work that focuses on changes seen in limestone and marble samples caused by exposure to the environment over a ten-year period. Long term studies like these have the potential to provide us with a better understanding of the natural processes and variabilities associated with field exposures that may not be seen in laboratory experiments or accelerated tests. Also, field exposures help us to test deterioration models in the real world.*

**Karl Reimann** is a retired electrical engineer and researcher at Argonne National Laboratory. Karl joined Argonne in 1970 in the Nondestructive Evaluation Section, working as a section manager until his retirement in 1991. He continues to work on Materials Research Program projects on a part-time basis.

The Center's **Materials Research Program** emphasizes research on the effects of acid rain and air pollution on calcareous stone. Limestone and marble contain calcite



*NAPAP field exposure site, Chester, New York.*

and are used in the construction of buildings, monuments, and carved stone ornament. These materials suffer from exposure to air pollution, and acid rain in particular.

As part of the National Park Service's contribution to the National Acid Precipitation Assessment Program (NAPAP), NPS has supported a long-term research program that began in 1984 with the exposure of limestone and marble briquettes to both acid deposition and natural weathering at several sites in the eastern United States. This research is nearing completion. Reimann's primary contribution has been tracking changes in samples caused by exposure to the environment, using chemical analysis, weight loss measurements, and surface recession studies. Reimann's research is concerned with the direct effects of gaseous pollutants, such as sulfur dioxide ( $\text{SO}_2$ ), and nitrogen oxides. In addition, concentrations of several metallic elements - such as vanadium and lead - on sample surfaces were initially monitored.

In Reimann's work, briquettes for exposure were cut from blocks of Salem limestone from Indiana and Shelburne marble from Vermont. The briquettes were exposed in the field according to a site

management plan issued by the National Park Service in 1984. This plan detailed a projected ten-year schedule of experiments, described stone procurement and sample fabrication, and contained protocols for handling and exposing samples. The field sites for exposure encompassed both rural and urban environments. Four test sites were established at Raleigh, North Carolina; Chester, New Jersey; Newcomb, New York; and Washington, DC. An additional site was later developed in Steubenville, Ohio.

Wet-chemistry analysis of field-exposed briquettes was performed according to quarterly, annual, and multi year schedules (as established in the site management plan), using ion chromatography (IC) and inductively coupled plasma spectrometry (ICP). Other analyses included measurements of weight change and material losses during exposure; color measurements to assess color changes on stone surfaces after exposure; and laser moire determination of roughness and recession on stone surfaces after exposure.

Results of wet chemistry analysis indicate that rinsing by rain keeps skyward surfaces relatively clean of reaction products, especially sulfates, the most

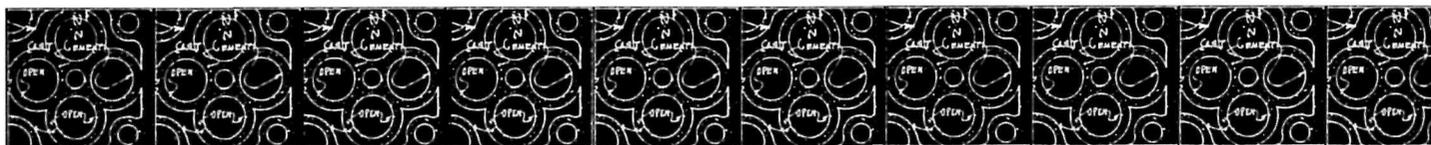
abundant products. During field exposures, the briquettes were exposed to natural cycles of rain water flowing over the skyward surfaces of the stone, running down the sides and eventually dripping off the groundward surface of the stone. In the process, sulfate pollution was deposited on the groundward surface of the stone and interacted with calcite to form the mineral gypsum (calcium sulfate dihydrate.) This was evidenced by wet chemistry analyses showing that sulfate concentrations were substantially higher on the groundward surfaces.

Reimann's results also showed that initial sulfate concentrations increased proportionally with exposure time. However, after a gypsum crust formed, the increase in sulfate concentrations on groundward surfaces leveled off. He also noted that sulfate concentrations found on limestone were always greater than those found on marble. Both stone types displayed a steep sulfate gradient from the surface to the interior.

Studies of sample weight loss show a linear relationship between cumulative losses and cumulative exposure periods. Laser studies also indicated a linear relationship between surface recession and exposure time. Results show that the rates of recession depend on the exposure site location, and have been attributed to differences in the amount of rain received in the area and other atmospheric conditions.

Color measurement results from the first six years of exposure indicate a yellowing of the marble and a darkening of limestone on both the skyward and groundward surfaces of exposed briquettes. Dark spots on groundward surfaces were measured with tristimulus color equipment prior to chemical analysis to determine if a correlation exists between darkening and  $\text{SO}_4$  concentration. A linear relationship may exist between exposure time, darkening,  $\text{SO}_2$  and  $\text{SO}_4$  concentrations can be established.

Changes to the limestone and marble briquettes have been studied further by Elaine McGee, a mineralogist with the United States Geological Survey. McGee uses optical and electron microscopy, as well as x-ray diffraction, to study the weathering crusts formed on exposed samples. McGee's results indicate that the



differences between limestone and marble weathering may result from differences in the porosity of the stone. Further discussion of her work will be presented in the next issue of *Notes*.

Currently a thorough statistical analysis of the measured changes in the stone and the environmental conditions observed is being initiated. This analysis will serve to strengthen the conclusions drawn by Reimann and unify our understanding of the processes taking place on stone surfaces upon long term exposure to acid deposition. This phase of the project is being coordinated through the Center with Dr. Terry Reedy, a leading statistician in the field of conservation.

*For more information regarding this work, contact -*

*Karl Reimann  
Argonne National Laboratory  
9700 South Cass Avenue  
Argonne, IL 60439*

*-Mary F. Striegel*

## FAX-ON-DEMAND

*Call 318/357-3214  
from a touch-tone phone.*

Fax-on-demand computer systems allow for the easy retrieval of documents via touch tone phones and fax machines. The user dials the fax-on-demand phone number and follows the voice prompts to order documents that are then faxed to the number entered by the user. The system is entirely automated. Except for the creation and maintenance of the online documents, no NCPTT staff is routinely involved in the process.

Fax-on-demand documents are organized by means of catalogs that list the documents available along with the assigned document numbers. Users order one or more catalogs during the first call. Subsequent calls are made to order individual documents by number. Since catalogs are modified over time, it is recommended that frequent users regularly

order catalog updates.

The Center's fax-on-demand system has been operational for several months. It was the primary source for the application guidelines for the Center's 1996 PTTGrants program. In addition several conference and workshop announcements have been disseminated via the fax-on-demand system.

Currently documents provided by the National Park Service, the American Institute for Conservation of Historic and Artistic Works, Historic Windsor's Preservation Institute, RESTORE, and the Association for Preservation Technology International are available via the Center's fax-on-demand system.

The Center's fax-on-demand system may be available to interested preservation organizations for no charge. An appropriate use of this system is distribution of announcements of workshops, training courses, conferences and symposia. Documents of prepared responses to frequent queries also may be appropriate. To discuss opportunities for your organization to post information on the Center's fax-on-demand system, call Mary Carroll, 318/ 357-3214 .

*-Mary S. Carroll*

## TRAINING

### PTTGrants in Training

The PTTGrants program supports training projects that develop and distribute preservation skills and technologies for the identification, evaluation, conservation and interpretation of cultural resources. 1995 awards for training projects were made to museums, universities, non-profit preservation organizations, SHPOffices and tribal organizations. The workshops that are described below are "products" of the PTTGrants program. The variety of topics addressed attests to the diversity of training needs in historic preservation disciplines.

### Landscaping to Support Historic Sites

*Vicksburg, Mississippi*

March 14-15

The **Southern Cultural Heritage Foundation** conducted a seminar on **Landscaping to Support Historic Sites** in Vicksburg, Mississippi, March 14-15.

Speakers included Edward C. Martin, Jr., FASLA, Professor Emeritus of Landscape Architecture at Mississippi State University; Neil G. Odenwald, Professor and former Director, School of Landscape Architecture at Louisiana State University; and Susan Haltom, former curator of exhibits at the Mississippi State Historical Museum. The host site for the seminar was the Southern Cultural Heritage Complex, a Mississippi Landmark and National Register property, comprised of buildings dating from the 1830s. The complex is being redeveloped as multi use center to showcase the cultural heritage of the Lower Mississippi Delta region.

### Preservation Workshops

*Natchitoches*

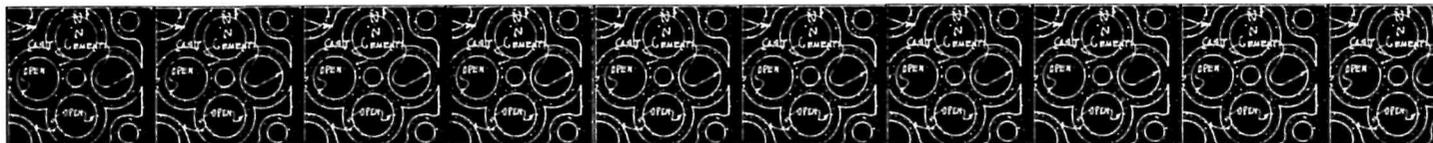
March 16-April 3

**Moldings: The Building Blocks of Classical Architecture**

The **Preservation Institute for the Building Crafts of Historic Windsor, Inc.** offered three workshops in Natchitoches, LA, during March. The first workshop "**Moldings: The Building Blocks of Classical Architecture**" was held March 16-17. **Don Rattner**, the workshop instructor, serves as Director of the Institute for the Study of Classical Architecture in New York. Workshop participants were from Louisiana, South Dakota and Texas. Through studio exercises and slide lectures, participants received instruction in identifying, designing and constructing classical moldings. A class assignment required students to survey existing molding elements of buildings in Natchitoches.

### Historic Plaster Repair: Ornamental and Flat Wall

The second workshop on Historic Plaster Repair was held March 19-22. Attending the workshops were participants from Louisiana, South Dakota and Vermont. Instruction was provided by **David**



**Flaharty**, sculptor and ornamental plasterer; **Andrew Ladygo**, architectural conservator with Preservation Services, Inc.; and **Rory Brennan**, plasterer. The workshop began with lectures on the plaster chemistry, properties and performance. Traditional plaster techniques and the use of adhesives in plaster repair were discussed and demonstrated. Participants were instructed in plaster application on flat surfaces and in casting and repairing ornamental plaster.

A site visit to the Natchitoches Parish Old Courthouse Museum provided an opportunity to evaluate historic plaster and to discuss traditional repair methods as well as the use of modern materials in repairing cracks and loose plaster. At the Prudhomme-Roquier House in Natchitoches, workshop participants inspected bousillage, a local plaster-like material composed of clay, dried Spanish moss, and hair that was used in constructing timber frame buildings in Louisiana.

### **Structural Evaluation and Repair: Wooden Frame Structures**

The third workshop on Structural Evaluation and Repair was held March 23-25 with participants from Louisiana, Missouri, South Dakota, Texas and Vermont attending. Instructors were **David Fischetti**, P.E. of DCF Engineering, Cary, North Carolina; **Jan Lewandoski** of Traditional Building, Greensboro Bend, Vermont; and **Andrew Ladygo** of Preservation Services, Inc., Fredericksburg, Virginia.

This three-day workshop began with a review of traditional construction including scribe and square rule timber framing, balloon framing, and plank construction techniques. Following a discussion of the physical and mechanical properties of wood, its use as a structural material was addressed. A site visit to the Prudhomme-Roquier House, a circa 1820 Federal style house in Natchitoches, supplemented the instructors' lectures on evaluating the physical condition of timber frames and trusses. Workshop participants examined the building's French scribe timber framing, its roof trusses and bousillage walls. During a second site visit, workshop participants inspected the structural condition of the Natchitoches

Parish Old Courthouse Museum, a circa 1890 Richardsonian Romanesque structure.

### **Conservation and Replication of Decorative Finishes**

Historic Windsor plans to offer Conservation and Replication of Decorative Finishes in Natchitoches during June. **Mary Lou Davis** is the instructor for Decorative Finishes, a three-day workshop for professional painters, maintenance personnel, architects and contractors. Topics covered in the workshop include documenting, conserving and replicating decorative finishes. In addition to classroom lectures, the workshop will provide hands-on training in creating faux finishes such as graining and marbling.

### **Care and Repair of Edge Tools**

Also planned for June in Natchitoches is a one-day workshop on Care and Repair of Edge Tools. Taught by **Michael Dunbar**, woodworker and author of several books on woodworking, the workshop will provide an overview of traditional woodworking tools, emphasizing planes and draw knives. Participants will learn about tool selection, reconditioning techniques, sharpening and using a lapping table. Contact Historic Windsor's Preservation Institute for more information, 802/674-6752.

### **Preservation Training for Local Governments**

*Savannah, Georgia*  
April 16

The **Georgia Department of Archives and History** will hold 6 day-long workshops for local records personnel seeking additional training in preservation. Workshop topics will include a discussion of reasons for preserving records, the records environment, preparing for disasters and evaluating services and suppliers. The first workshop will be held in Savannah on April 16. Additional workshop dates and locations will be announced.

In addition to the workshops, technical bulletins will be developed to address issues such as reformatting options for paper-based materials, machine readable records, and selecting an off-site storage facility.

The Georgia Department of Archives and History also plans to make a limited number of site visits to records repositories in Georgia to provide assessments of records storage conditions. For more information on the workshops, technical bulletins or site visits, contact David Walls, 404/656-2374.

### **Preserving Our Endangered Past: A Series of Workshops**

*Pawtucket, Rhode Island*

April 30, May 21, and June 25

A series of day-long workshops in preservation and conservation of buildings, textiles, furniture, photographs, and paper will be held at **Slater Mill Historic Site** in Pawtucket, Rhode Island. Designed for museum professionals and volunteers working in small museums or historical societies and for owners of historic properties, these workshops will offer low-tech and low-cost solutions to a variety of preservation problems. Recognized experts from the southern New England area provide informative lectures, hands-on demonstrations, and helpful reference guides. Participants are encouraged to discuss their own conservation needs.

The goal of the workshop series is to forge links between southern New England's professional conservators and the stewards of its many historic treasures. Because few small museums have the benefit of in-house conservators, these workshops are designed to supply professional support and training. The first workshop on **Building Conservation** will be April 30; **Textile Conservation** will be May 21; and **Furniture/Photographs/Paper Conservation** will be June 25. For more information contact Jeanne Zavada or Briann Greenfield at Slater Mill Historic Site, 401/725-8638.

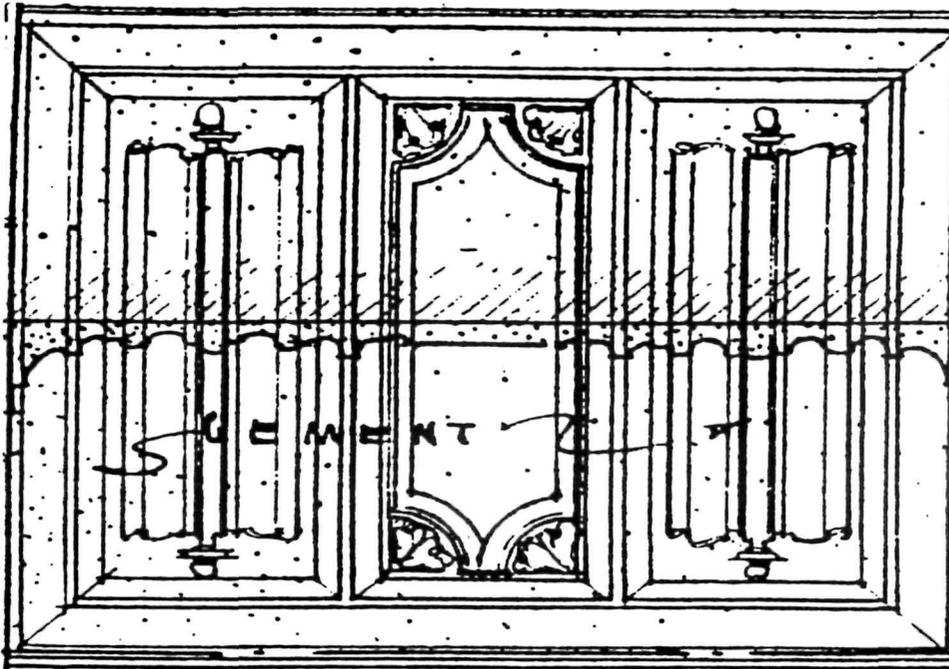
### **Diagnosing Moisture in Historic Buildings**

*Washington, DC*

May 6-8

A symposium on **Diagnosing Moisture in Historic Buildings** will be held in Washington, May 6-8. This symposium, funded through a PTT Grant for FY 1995 to the **Friends of Meridian Hill**, will be the model for future seminars offered in other parts of the country. Co-





**Lee H. Nelsen Hall:  
NCPTT Headquarters**

When NCPTT arrived on the campus of **Northwestern State University of Louisiana** in the Fall of 1994, our offices were on the ground floor of Kyser Hall, a large classroom building in the center of the NSU campus. We outgrew our Kyser Hall home nearly immediately and relocated to a second temporary location on the upper floor of South Hall – which NSU renovated to suit NCPTT's needs. South Hall is a 1940s barracks-renovated-as-college-dormitory with continuous windows on the long north and south sides that provide excellent natural lighting and, overall, our South Hall location is quite good. This, however, is not our last move.

Early plans for NCPTT's operations on the NSU campus included renovating an historic structure as NCPTT headquarters. The building selected by NSU and the National Park Service is a gymnasium designed in 1922 by Favrot & Livaudais Ltd. Architects of New Orleans and completed in the Fall of 1923. The gymnasium occupies a prominent site along College Avenue, part of a row of 1920s and 1930s academic buildings, most of which have been rehabilitated.

Under an agreement with NSU, the National Park Service is funding the gymnasium rehabilitation for exclusive NCPTT use. The rehabilitation design and construction are managed by the State of Louisiana's Office of Facility Planning and Control. The new headquarters will be known as **Lee H. Nelson Hall** in honor of an historical architect who was instrumental in developing preservation professionalism within the National Park Service.

The gymnasium rehabilitation project includes two major components: facilities for NCPTT's research, training and information management programs, and a new **Museum of the Red River Valley**.

NCPTT facilities comprise offices,

sponsors of the Symposium are the **National Park Service**, the **Washington Chapter of the Association for Preservation Technology**, **Friends of Meridian Hill**, and **Friends of Great Falls Tavern**.

The symposium will focus on diagnosing sources of moisture in historic buildings including ground moisture, moisture penetrating building envelopes and moisture generated inside the building generally as a result of climate control systems. The use of technical instruments and monitoring devices in diagnosing complex problems will be demonstrated at Meridian Hill Park in Washington, Great Falls Tavern on the C&O Canal in Maryland, and Gunston Hall, Colonial home of George Mason, in Virginia. The workbook for the symposium will be available for purchase following the symposium. Registration will be limited to 60 to allow for hands-on training; the course fee is \$150.00. For more information, contact Steven Coleman, President of Friends of Meridian Hill, 202/ 387-9128, or Brooks Prueher with the National Park Service, 202/ 343-1185.

**Preservation Education Skills for Building Trades Teachers**

*Burlington, Vermont*

July 8-12

**Preservation Education Skills for Building Trades Teachers** is a week long pilot course that will explore methods for integrating hands-on building conservation and historic preservation instruction into building trades curricula. Developed by the **University of Vermont Historic Preservation Program** and **Historic Windsor, Inc.**, the course will be held in Burlington at the **Historic Preservation Summer Institute**.

In addition to studying preservation philosophies, standards, strategies, and conservation techniques, participants will examine how these instructional programs can be implemented and recognized. Designed for high school and post-secondary building trades instructors, as well as other teachers interested in historic preservation, this three credit course is intended to meet continuing education requirements for teacher certification. This limited enrollment week-long course is scheduled for July 8-12. For more information contact Tom Visser at University of Vermont Historic Preservation Program, 802/656-0577.



class and seminar rooms, teaching laboratories for materials conservation and information management, and conference and exhibit space.

Towards including a public use in the new headquarters, a **Museum of the Red River Valley** will be developed in a publicly-accessible space on the ground floor. The museum will comprise approximately 1000 square feet of exhibits that interpret (1) the prehistoric culture of the Red River Valley, (2) the valley's historic and contemporary cultures, including the cultures of Native American, African American, Creole, Hispanic, French and Anglo peoples, (3) the science and craft of artifact conservation, and (4) the stories of NCPTT and NPS historic sites in Natchitoches Parish.

The museum will combine artifact exhibits and computer-based interactive exhibits. Exhibit artifacts will be selected from NSU's Williamson Museum collections of archeological and ethnographic materials. Special interactive exhibits will demonstrate appropriate uses of technology for interpreting artifacts and sites.

**Wayne Lawrence Coco, AIA** of Simmesport, Louisiana is project architect for both the NCPTT facilities and the museum aspects of the project. **Van Dam Renner Woodworth** of Portland, Maine will serve as consultants to Mr. Coco for exhibit planning and design. **Dr. Hiram F. (Pete) Gregory**, NSU professor of anthropology, will serve as the museum's consulting curator; **Dr. Mark Gilberg**, NCPTT's research coordinator, will serve as the exhibit's consulting conservation scientist, and **Mary Carroll**, NCPTT's information management specialist will serve as consultant for interactive interpretive exhibits.

Schematic design for rehabilitating the gymnasium is nearly completed, and exhibit planning and design are scheduled to begin soon. Bid documents for Lee H. Nelson Hall will be ready in the Fall of 1996, and construction will commence in early 1997.

NCPTT is pleased with the progress of this highly collaborative undertaking. *Notes from the Center* will continue to keep our readers current on headquarters development.



*Timber Framing Workshop, Nacogdoches, Texas, March 1996.*

### **Center Welcomes New Intern**

The Center welcomes **Eric Fountain**, a new intern in the Center's training program. Eric is a doctoral student in educational technology at Northwestern State University of Louisiana. He is interested in the ways that technology can be used to enhance education in a constructivist setting. During his internship with the Center, Eric will investigate the educational resources available on the Internet for educators who wish to integrate historic preservation into their lessons. If you know of or maintain interesting heritage education sites, please contact Eric at the Center, 318/357-6464.

### **Center for Safety in the Arts Closed**

Due to funding cutbacks, the **Center for Safety in the Arts** closed down most of its operations at the end of 1995. This includes CSA's Art Hazards Information Center which answers written and telephone inquiries on hazards in the arts, and its consultation, lecture, and other education services. CSA has donated a substantial portion of its Resource Library to the Health Sciences Library at Hunter College which is open for research or information at 212/481-4326. The publication of Art Hazards News and the

distribution of publications will continue with the assistance of the New York Foundation for the Arts. To subscribe to **Art Hazards News** or for a list of available publications contact Center for Safety in the Arts/NYFA, 155 Sixth Avenue, 14th Floor, New York, NY 10013.

## THE RECENT PAST

### **Collections Care and Maintenance Training Program**

*Kansas City, Missouri*

February 12

In February Frances Gale participated in the **Collections Care and Maintenance Training Program** in Kansas City. The program, sponsored by the **Heritage League of Greater Kansas City**, is designed to provide currently employed museum professionals with information, hands-on workshops and behind-the-scenes tours of area historic sites and museums. The program is comprised of a 3-week session in February and a second 3-week session in July. Participants represented 10 museums and historic sites in the Kansas City area.





*Manufacturers' demonstration at Museum Exhibit Lighting Conference, College Park Maryland, March 1996.*

The curriculum for the Collections Care and Maintenance Training Program was based on **Bay Foundation/National Institute for Conservation** pilot projects, a successful program held by the **Mid-Atlantic Association of Museums** and a 1991 NIC publication. Topics included the nature of materials and agents of deterioration in collections, housekeeping in the historic site, collection documentation, packing and storage techniques and safe exhibit mounts.

New to the curriculum was Fran Gale's presentation on "The Building as Artifact." Her presentation included a review of architectural styles, the National Register and the Secretary of the Interior's Standards. She also provided information about assessing conditions of building materials and presented a case study involving a variety of preservation issues.

### **Museum Exhibit Lighting**

*College Park, Maryland*

March 6-8

This meeting and series of workshops served to inform and educate preservation professionals on the current understanding of museum exhibit lighting. The meeting was organized by the **National Park Service** and the **Washington**

**Conservation Guild** with additional funding from the Center. The three-day meeting was hosted by **The National Archives and Records Administration** at Archives II, in College Park, Maryland. The meeting brought together, scientists, conservators, lighting designers, and manufacturers to present and discuss current and alternative ways of exhibit lighting.

The first two days of the meeting were dedicated to presentations and lectures. Initial sessions covered the history of exhibit lighting, lighting and visual perception, and the basics of lighting. Other sessions included presentations and discussions of successful exhibit lighting applications. Effects of lighting on the deterioration of collections and methods for minimizing damage were also presented. The importance of developing a team approach to lighting, by including conservators, scientists, and lighting designers from the initial concept to the actual exhibit, was emphasized. Manufacturers were on hand to demonstrate their various products and discuss lighting needs unique to the museum environment.

A series of seven workshops was held on the third day of the program. Workshop topics included lighting for audience accessibility and ranking object vulnerability to light. One workshop offered participants

hands on practice using glass, acrylic, and thermosetting resin fiber optics. Another focused on recent developments for monitoring light in museums and galleries.

The meeting and workshops provided an excellent forum for promoting a better understanding of lighting needs and considerations in the museum environment. It encouraged a more interdisciplinary and team approach to solving lighting problems and promoted the transfer of recent technological to lighting problems within the museum world.

### **Timber Framing Workshop**

*Nacogdoches and Tyler, Texas*

March 8-15

Timber framing skills were almost lost in the twentieth century as construction using small-dimension lumber and nails replaced the traditional methods. In the 1970s a group which later formed the Timber Framers Guild began a revival of the older skills involved in finely crafting joints in wooden timbers.

Working with the **Timber Framers Guild of North America** and the **Texas Department of Parks and Wildlife**, the Center sponsored a hands-on class in timber framing March 8 through 15 in Nacogdoches and Tyler, Texas. The class project was cutting and raising the Friendship Pavilion for the East Texas Ecological Education Center near Tyler.

Participants in the Timber Framing workshop were from Alaska, Arkansas, Colorado, Indiana, Louisiana, Michigan, Minnesota, North Carolina, Pennsylvania, Texas, Virginia, and Alberta, Canada. Class instructors included expert timber framers from throughout the U.S.: Arvel Aldridge of Renaissance Timber Frames of Missouri; Peter Bull, who owns a woodworks in Georgia; Tim Chauvin and Jim Holzknecht of Red Suspenders Timber Frames in Nacogdoches; Joel McCarty of New Hampshire, President of the Timber Framers Guild; and Donna Williams, who has helped raise timber frames in Georgia, Virginia, North Carolina, Ohio, and Ontario.

Instruction was at Red Suspenders Timber Frames in Nacogdoches and started with a tool sharpening and tuning demonstration. Participants began work on the class project – the Friendship Pavilion –



later that day, first laying out the joinery, then cutting mortises and tenons. Following completion of joinery, assembly of the roof trusses began in Nacogdoches. Finally assembly took place at the Ecological Education Center in Tyler on Friday. The final event of the workshop was a “Raising Party” held at the site.

**Inter-American Symposium on Authenticity**

*San Antonio, Texas*

March 27-30

The **Inter-American Symposium on Authenticity in the Conservation and Management of Cultural Resources** was held March 27-30 in San Antonio. Preservation specialists from North, South and Central American countries convened to discuss the topic of authenticity in preservation within the cultural context of this hemisphere, and its implications for the management of our cultural heritage. The event was sponsored by the **US Committee/International Council on Monuments and Sites**, the **Getty Conservation Institute** and the **San Antonio Conservation Society**. The Center supported the symposium by providing funds for a Native American delegate and for publication of National Position Papers submitted by over 15 participating countries.

**Graziano Gasparini**, Professor of Architecture and Urbanism and founder and director of the Office of Historic, Artistic and Environmental Patrimony of Venezuela’s National Council of Culture, was keynote speaker for the symposium. For each of four plenary sessions, a theme was introduced and several case histories presented. Themes included definitions of authenticity with regards to value, context, usage and value; proof of authenticity in dynamic vs. static sites; and implications of authenticity on the management of cultural resources. Following the plenary sessions, symposium attendees participated in one of three discussion groups – Cultural Landscapes, Architecture and Urbanism, and Archaeological Resources. During one of the plenary sessions, Fran Gale provided participants with a presentation on the mission and activities of the National Center. In addition to describing its three



*Timber Framing Workshop, Tyler, Texas, March 1996.*

component, Fran focused on the mission and recent activities of the Center’s training component.

At another plenary session, Rebecca Anderson, Director of Publications for the **World Monuments Fund**, provided a report on the **World Monuments Watch** initiative. WMF is an international organization dedicated to preserving the world’s cultural and architectural heritage. Founded in 1965, WMF has coordinated work on over 100 projects in 32 countries. The World Monuments Watch initiative, a new program aiming to identify and preserve the world’s most endangered cultural landmarks, is further described in the article that follows.

**World Monuments Watch Initiative**

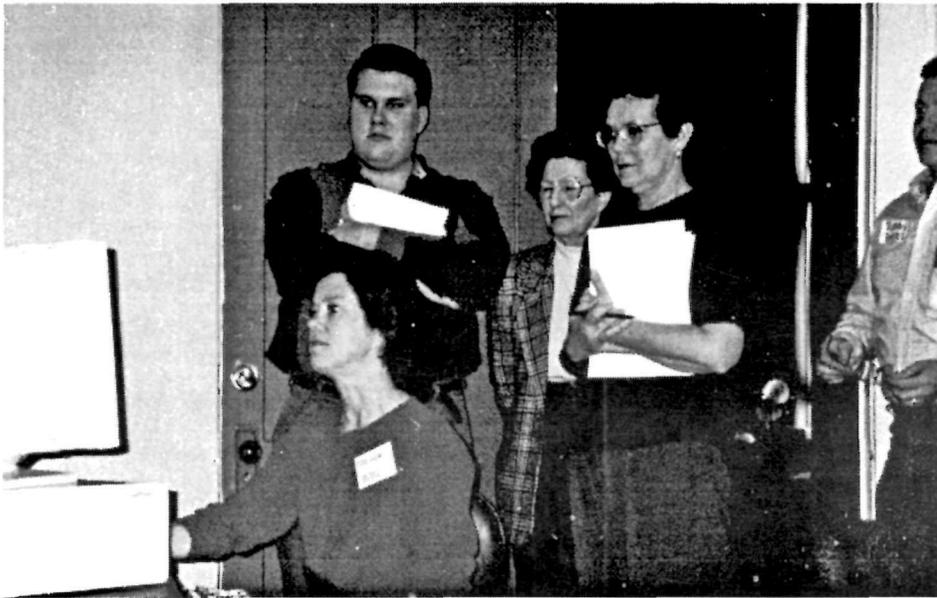
On March 22, 1996, the first annual List of 100 Most Endangered Sites was announced by the World Monuments Fund. The list, chosen from over 250 nominations from 70 countries, focuses attention on these fragile monuments and sites. Nominations were made by governments, private organizations active in heritage conservation, and concerned individuals. The World Monuments Watch selection committee was comprised of a panel of

international experts; criteria for selection included the significance of the monument or site, the urgency and immediacy of the danger, and the viability of the action proposed to address the threat.

Some of the best known sites on the List are the Taj Mahal in India; Hagia Sophia in Istanbul, Vienna’s Belvedere Gardens, the Royal Palaces of Benin, Angkor Archeological Site in Cambodia, Ancient Pompeii in Naples, and Orongo on Easter Island. US sites include Adobe Missions of New Mexico, Ellis Island National Monument, Chaco Culture National Historic Park, Eastern State Penitentiary, Golden Gate Park Conservancy, Holy Ascension Russian Orthodox Church in Alaska, and Lafayette No.1 Cemetery in New Orleans.

A lead grant from the American Express Company – a \$5 million commitment allocated over a five year period – enabled the establishment of World Monuments Watch Fund, created to support conservation efforts at endangered sites on the List. In the Spring of 1996, the first grant awards will be made by the Fund to support emergency assistance, strategic planning, technical advice, educational programs, local fund raising and





*Computer technology in preservation session, Old Washington Historic State Park, Arkansas, April 1996.*

conservation treatments at specific sites. It is intended that grant funds will be used as leverage to bring in additional support from private and public sector partners in local communities. It is hoped that the work made possible through the World Monuments Fund grants, will result in removal of some of the sites from the List in the near future. Writing in *The New York Times*, Herbert Muschamp states that the List is "much more than a plea to protect history. It is itself history: a record of the growth of consciousness in a shrinking world."

### **Preserving Archaeological Remains In-Situ**

*London, England*  
April 1-3

Mark Gilberg attended **Preserving Archaeological Remains In-Situ**, a conference jointly sponsored by the **Museum of London Archaeological Service** and the **University of Bradford**. This conference arose from the growing debate over the efficacy of many of the techniques used to preserve archeological remains in-situ throughout Great Britain and, in particular, London. Attending the conference were representatives from a number of European countries and the US.

The conference sought to identify problems with the techniques used to preserve or rebury archaeological remains in-situ. An overview of current research on these topics also was presented. Perhaps most importantly, the conference sought to bring together the many different disciplines and profession involved with this issue, with a view towards coordinating future research initiatives.

Papers were presented on a variety of topics including the physical, chemical and biological nature of the buried environment; how bone, metals, ceramics and stone deteriorate in soil; technology and equipment for monitoring buried remains; archeologically "friendly" building design; the effects of construction techniques on buried remains; preserving archeological remains in a wetland landscape; and archeological material as an analogue for the burial of nuclear waste. Although the speakers focused primarily on British sites and experiences, much of the technology discussed is applicable in other locations.

At the conclusion of the conference it was generally agreed that considerably more research is needed to ensure the survival of artifacts preserved in-situ. The proceedings of the conference will be published in the near future. For copies of the conference

program and abstracts, contact Mark Gilberg, 318/357-6464.

### **Preserving the Past – A Workshop in Historic Preservation**

*Washington, Arkansas*  
April 10-12

John Robbins and Fran Gale attended **Preserving the Past at Old Washington Historic State Park**. The large number of restored public and private buildings and 19th century landscape features in Old Washington make it an ideal site for preservation workshops. Attending the workshop were representatives of small museums and historical societies, preservation specialists, teachers and people working on historic buildings

The workshop began with a presentation by **Dr. Bobby Roberts**, Director of Central Arkansas Library System on a multi disciplinary approach to interpreting history. **John Robbins** participated in the panel discussion on preservation that followed. Other panelists were **Daniel Carey**, Senior Program Associate with the National Trust for Historic Preservation; **Randy Jeffery**, Section 106 and Technical Coordinator with the Arkansas Historic Preservation Program; **Carey Walker**, Superintendent of Old Washington Historic State Park; and **Parker Westbrook**, President of Pioneer Washington Restoration Foundation.

Workshop sessions covered a variety of topics: Archaeology on Old Town Square, Teaching and Writing About Life on the Red River, Introduction to Graining and Decorative Coatings, and Restoration of Carousel Horses. Heritage education was featured in several sessions including Developing Curriculum on the Battle of Prairie Grove, Developing A Teaching Unit on Carousel Horses, and Using Art in Developing Curriculum. Fran Gale conducted a session on Computer Technology in Preservation. Participants learned about electronic mail, listservs, telnet and the world wide web; they visited the NCPTT gopher during an on-line demonstration.

This is the second annual preservation program at Old Washington, and a good



model for regional or statewide conferences intended for historic property managers and owners. Organizations interested in developing similar programs should contact Fran Gale.

## THE NEAR FUTURE

### Cyberspace-Law

April

Cyberspace-Law is a free Internet seminar for non-lawyers run by staff of the University of Chicago, Georgetown, and UCLA law schools. Starting in late April, this seminar will send one message via e-mail every two or three days about the basic principles of copyright, free speech, libel, privacy, contract law, and trademark law as they apply on the Internet.

Low on legalese and technical jargon, Cyberspace-Law is a distribution list (not a discussion list) that currently has 9700 subscribers. To subscribe, send the message <SUBSCRIBE CYBERSPACE-LAW yourfirstname yourlastname> to <LISTPROC-QUEST@COUNSEL.COM> The owner of the site is Jake Vogelaar. If you have problems getting set up, contact him at <jvogelaar@counsel.com>

### Preservation Weekend

Austin, Texas

April 19-21

A **Preservation Weekend** is planned for owners and managers of historic properties on April 19-21 in Austin, Texas. The workshop will provide information about purchasing, restoring or rehabilitating, and maintaining historic properties and will demystify topics such as project financing, applying for Tax Act Credits, and dealing with Historic District Commissions. The Center's co-sponsors for the Austin preservation weekend are the **Texas Historical Foundation, Texas Historical Commission, and the Historic Preservation Program at the University of Texas.**

**John Robbins** will be keynote speaker for opening session on Friday night. Speakers for the Saturday morning session include **Wayne Bell**, Professor Emeritus

of Architecture at the University of Texas at Austin; **Stan Graves**, Director of the Department of Architecture with the Texas Historical Commission; **Ann McGlone**, Historic Preservation Officer in the San Antonio Preservation Office; and **Dudley Dobie** who restored the J.F. Dobie House in Austin.

Afternoon sessions will showcase the skills of craftsmen demonstrating masonry repairs, metalworking, and stained glass. Participants will learn how to investigate historic properties and to determine original paint schemes. A special demonstration on the use of computers in preservation will link these traditional skills to modern-day technology. Participants will tour the Charles Moore House during the evening session. The workshop will conclude on Sunday morning with a session "putting it all together", followed by a tour of the Moore Hancock Farmstead.

### Preservation of Collections: Assessment, Evaluation and Mitigation Strategies

Norfolk, Virginia

June 10-11

One and one half days of presentations and hands-on workshops are designed to bring museum professionals up-to-date on cost-effective solutions to conservation needs of museums, libraries and other repositories. Sessions will present an interdisciplinary approach to integrating the concerns of collections care, collections management and museum administration using knowledge and technical information gained from practical experience. The sessions will precede **AIC's 24th Annual Meeting** in Norfolk. For more information, call NCPTT's fax-on-demand system, 318/357-3214.

### AIA/HRC-AIC/ASG meeting

Alexandria and Natchitoches, Louisiana

October 31-November 3

The **Architecture Specialty Group** of the **American Institute for Conservation of Historic and Artistic Works** will join the **American Institute of Architects' Historic Resources Committee** at its Fall meeting in north Louisiana. This conference will be the first co-meeting of architectural conservators and

preservation architects, and an excellent program is planned.

The conference will focus on preservation and conservation technologies and will be a forum for exchanges among architects and conservators.

Sessions will begin in the historic Red River community of Alexandria, Louisiana, and will continue at NCPTT headquarters in Natchitoches and at the late 18th and early 19th century plantations along Cane River.

In developing this conference, NCPTT is pleased to work with our AIA and AIC partners – with **Douglas Ashe, AIA** of **Ashe Broussard Weinzettle Architects** in Alexandria representing the Louisiana AIA chapter, and **Joel Snodgrass** of **Integrated Conservation Resources** in New York representing AIC's Architecture Specialty Group.

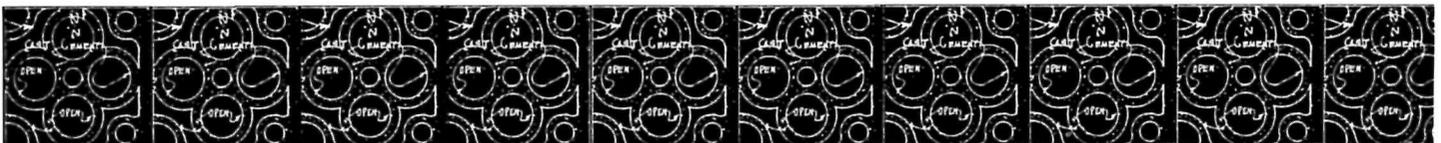
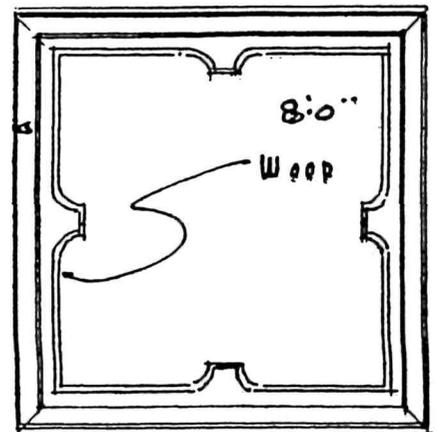
For more information, call the AIA/HRC hotline, 202/626-7482, or John Robbins.

### APT96: Building Ideas/Idées à Bâtir

Winnipeg, Manitoba

September 26-October 1

The **Association for Preservation Technology International's 1996 Annual Conference** will convene in Winnipeg September 26-29, followed September 29-October 1 by two **APT Training Workshops** on conservation masonry and log construction. **NCPTT** is a conference co-sponsor, along with **Canadian Heritage** and the **Province of Manitoba**. For further information, call NCPTT's fax-on-demand service, 318/357-3214.



---

## Notes from the Center

May 1996

Editor

Fran Gale

Associate Editor

Mary F. Striegel

Contributing Editors

Mary S. Carroll  
Mark Gilberg  
John Robbins

## Our address

NCPTT  
NSU Box 5682  
Natchitoches, LA 71497

Telephone 318/357-6464

Facsimile 318/357-6421

E-mail [NCPTT@alpha.nsula.edu](mailto:NCPTT@alpha.nsula.edu)

Gopher [gopher.ncptt.nps.gov](mailto:gopher.ncptt.nps.gov)

Web <http://www.cr.nps.gov/ncptt>

Fax-on-demand 318/357-3214

---

*Line drawing illustrations are from Favrot & Lirandais' 1922 drawings of the NSU gymnasium.*

---

**Notes from the Center** is published by the National Park Service's National Center for Preservation Technology and Training.

## National Park Service

Roger G. Kennedy

*Director*

Katherine H. Stevenson

*Associate Director, Cultural Resource  
Stewardship and Partnerships*

## Preservation Technology and Training Board

Elizabeth A. Lyon

*Chair*

Robert Z. Melnick

*Vice-Chair*

E. Blaine Cliver *Designated Federal Official*

Neville Agnew

Nicholas Gianopoulos

Alferdteen B. Harrison

James K. Huhta

W. James Judge

Christy Johnson McAvoy

F. Blair Reeves

Carolyn L. Rose

Frank Emile Sanchis, III

## NCPTT

Carolyn Breedlove

*Training Intern*

[breedlovec@alpha.nsula.edu](mailto:breedlovec@alpha.nsula.edu)

Mary S. Carroll

*Information Management Specialist*  
[mcarroll@alpha.nsula.edu](mailto:mcarroll@alpha.nsula.edu)

Marvis L. Chance

*Training Intern*

Eric Fountain

*Training Intern*

[nsfou4293@alpha.nsula.edu](mailto:nsfou4293@alpha.nsula.edu)

Frances Gale

*Training Coordinator*

[gale@alpha.nsula.edu](mailto:gale@alpha.nsula.edu)

Mark Gilberg

*Research Coordinator*

[gilbergm@alpha.nsula.edu](mailto:gilbergm@alpha.nsula.edu)

Sarah Luster

*Louisiana SOS! Coordinator*

[lusters@alpha.nsula.edu](mailto:lusters@alpha.nsula.edu)

John Robbins

*Executive Director*

[jrobbins@alpha.nsula.edu](mailto:jrobbins@alpha.nsula.edu)

Mary F. Striegel

*Research Associate*

[striegelm@alpha.nsula.edu](mailto:striegelm@alpha.nsula.edu)

Kris Vidos

*Information Management Intern*

[nsvid9088@alpha.nsula.edu](mailto:nsvid9088@alpha.nsula.edu)

---

*The National Center for Preservation Technology and Training promotes and enhances the preservation of historic resources in the United States for present and future generations through the advancement and dissemination of preservation technology and training.*

*The Center, created by Congress, is an interdisciplinary effort by the National Park Service to advance the art, craft and science of historic preservation in the fields of **archeology, historic architecture, historic landscapes, objects and materials conservation, and interpretation.** The Center serves public and private practitioners through research, education and information management.*

*— NCPTT mission statement, adopted at the Fall 1995 meeting of the Preservation Technology and Training Board*

---

**National Center for  
Preservation Technology and Training**  
NSU Box 5682  
Natchitoches, LA 71497  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300