NCPTT

National Center for Preservation Technology and Training

National Park Service
U.S. Department of the Interior

Annual Report for the period October 1, 1994 – September 30, 1999

To the President and Congress

The Preservation Technology and Training Board is pleased to be part of NCPTT's first five years of growth. Grounded in a sound study of the technical needs of historic preservation in the United States, NCPTT has addressed substantial national needs for research, training and information — as demonstrated by the work summarized in this annual report.

During the next few years, NCPTT will be challenged to build on its initial success. In 1998 and 1999, the PTTBoard assessed NCPTT's strengths and needs. From this assessment, the PTTBoard recommended to the National Park Service that NCPTT develop a balanced program of activities in close association both with the nation's strong centers of scientific and technical expertise and with national professional and preservation organizations. The PTTBoard will *continue to work with the National Park Service to develop an NCPTT that fully benefits the* preservation community and serves to create a better and more meaningful future for America.

Dr. Elizabeth A. Lyon
On behalf of the Preservation Technology and Training Board
November 1999

Creating NCPTT

In September 1986, the US Congress' Office of Technology Assessment published *Technologies for Prehistoric & Historic Preservation*. The OTA report is an in-depth study of historic preservation, based on data gathered from five workshops throughout the United States with 11-15 participants each, 15 formal reviewers and over 100 assistant reviewers. The assessment cites the critical need to establish a Federally funded institution "as a mechanism to coordinate research, disseminate information, and provide training about new technologies for preservation."

Strategies for implementing OTA report findings and recommendations included establishing a "Federal Center for Preservation Technology" within the Department of the Interior or a "National Center for Preservation Technology" to be operated by a consortium of universities, plus a "Preservation Technology Board."

Recommendations for a national research and development organization devoted to technical issues in preservation were adapted into legislation as part of the National Historic Preservation Act Amendments of 1992. The legislation established the National Center for Preservation Technology and Training, an advisory board — the Preservation Technology and Training Board —, and the Preservation Technology and Training Grants program as major components of a new "national initiative to coordinate and promote research, distribute information, and provide training about preservation skills and technologies."

NCPTT Purposes

NCPTT has five legislated purposes —

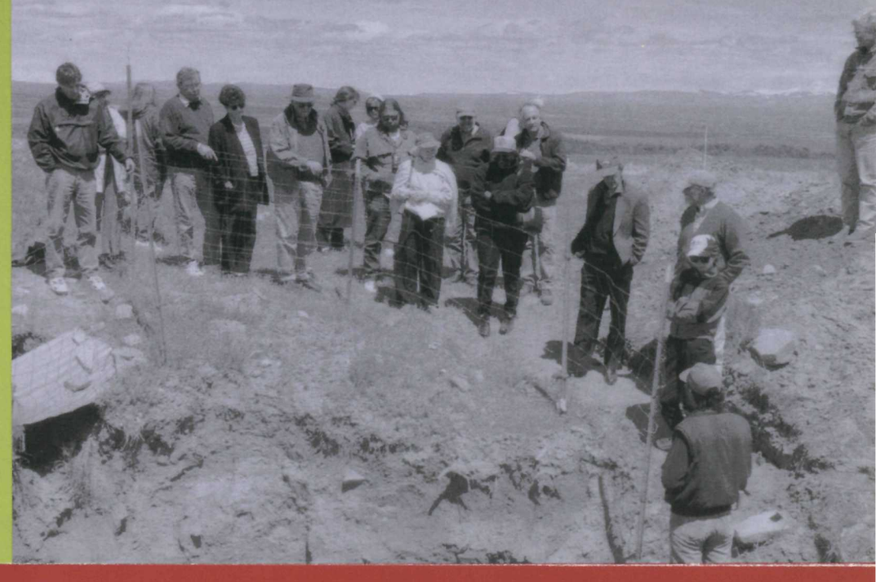
"(1) develop and distribute preservation and conservation skills and technologies for the identification, evaluation, conservation, and interpretation of prehistoric and historic resources;

"(2) develop and facilitate training for Federal, State and local resource preservation professionals, cultural resource managers, maintenance personnel, and others working in the preservation field;

"(3) take steps to apply preservation technology benefits from ongoing research by other agencies and institutions;

"(4) facilitate the transfer of preservation technology among Federal agencies, State and local governments, universities, international organizations, and the private sector; and

"(5) cooperate with related international organizations including but not limited to the International Council on Monuments and Sites, the International Center for the Study of Preservation and Restoration of Cultural Property, and the International Council on Museums."



The five purposes are fulfilled through NCPTT's three components — information management, research and training —, and four programs — grants, projects, clearinghouse and consultations. Nearly all of NCPTT's work is undertaken in partnership with preservation organizations, and institutions throughout the United States. This annual report includes summaries of each NCPTT component and program, and a list of NCPTT's grants and project work and the partners with whom NCPTT collaborates.

Preservation Technology and Training Board

The PTTBoard has three legislated duties —

"(1) provide leadership, policy advice, and professional oversight to the Center"

The PTTBoard reviews NCPTT's current and future activities twice annually and advises the National Park Service on NCPTT's direction and development. One of the PTTBoard's chief means of assisting NCPTT to gauge its development and progress is a long-range plan prepared by the PTTBoard. This annual report includes excerpts from the long-range plan.

"(2) advise the Secretary on priorities and the allocation of grants among the activities of the Center"

The PTTBoard advises on NCPTT's grants program — including annual oversight of the call for proposals, and the proposal review and selection process — to ensure that NCPTT's grants program addresses issues that are current and important to the national preservation community.

"(3) submit an annual report to the President and the Congress."

This responsibility is fulfilled by this report.

PTTBoard Members 1994-1999

As legislated, thirteen members comprise the PTTBoard: the Secretary of the Interior or the Secretary's designee, six members appointed by the Secretary who represent "Federal, State and local agencies, State and local historic preservation commissions, and other public and international organizations," and six members appointed by the Secretary "on the basis of outstanding professional qualifications who represent major organizations in the fields of archeology, architecture, conservation, curation, engineering, history, historic preservation, landscape architecture, planning, or preservation education."

The initial PTTBoard was appointed by the Secretary of the Interior in 1994. Since initial appointments in 1994, two members have left the PTTBoard and two members have joined.

Chair, 1994-
Dr. Elizabeth A. Lyon
Term 1994-2004

Vice-chair, 1994-
Robert Z. Melnick, FASLA
School of Architecture and Allied Arts
University of Oregon
Term 1994-2000

Secretary of the Interior's Representative, 1994-
E. Blaine Cliver
Historic American Buildings Survey/
Historic American Engineering Record
National Park Service

Dr. Neville Agnew
The Getty Conservation Institute
Term 1994-2002

Patricia H. Gay
Preservation Resource Center
of New Orleans
Term 1997-2000

Dr. Jon Gibson
University of Southwestern Louisiana
Term 1994-1997

Nicholas Gianopulos
Keast & Hood Company
Term 1994-2002

Dr. Alferdteen B. Harrison
Margaret Walker Alexander
National Research Center
Jackson State University
Term 1994-2002

Dr. James K. Huhta
The Center for Historic Preservation
Middle Tennessee State University
Term 1994-2004

Dr. W. James Judge
Department of Anthropology
Fort Lewis College
Term 1994-2004

Christy McAvoy
Historic Resources Group
Term 1998-2004

F. Blair Reeves, FAIA
School of Architecture
University of Florida
Term 1994-2002

Carolyn L. Rose
Department of Anthropology
National Museum of Natural History
Smithsonian Institution
Term 1994-2000

Frank Emile Sanchis, III
Municipal Art Society
Term 1994-2000

Dr. Patty Jo Watson
Department of Anthropology
Washington University
Term 1994-1996

NCPTT's Long-Range Plan

A long-range plan was developed by the PTTBoard in consultation with NCPTT, coordinated with the National Park Service system-wide and cultural resources strategic plans, and distributed for comment to the national preservation community. The fourteen goals of NCPTT's long-range plan address NCPTT's development and the work of NCPTT's information management, research and training components.

Goal 1 Sufficient resources for full implementation of NCPTT's legislated purposes and mission in information management, training and education, and research

Goal 2 Public awareness of and cooperation with NCPTT's goals and programs

Goal 3 Increased and improved access to preservation information and knowledge of electronic means to obtain information

Goal 4 Enhancement of NCPTT as a clearinghouse for preservation and conservation information

Goal 5 Information dissemination to a broad preservation constituency in a wide variety of media

Goal 6 Employment of the most current means of information management and dissemination

Goal 7 Expanded access to all types of preservation training, with NCPTT serving as a national clearinghouse of training opportunities

Goal 8 National leadership in preservation training and education

Goal 9 Encouragement of programs encompassing the entire continuum of preservation and conservation education — from public awareness to specialized professional training

Goal 10 Establishment of NCPTT as a major sponsor of research in preservation and education

Goal 11 Assessment of national research needs in preservation, and establishment of research priorities by discipline

Goal 12 Identification of institutions currently conducting preservation research, and determination of the nature and scope of research to be conducted by NCPTT

Goal 13 Transfer of technologies and technical information among agencies and organizations, and among disciplines

Goal 14 Publication and distribution of research results in order to increase access to technologies and expertise relevant to all aspects of preservation.

NCPTT's Organization

Within the US Department of the Interior, NCPTT is part of the Washington office of the National Park Service — under the Associate Director for Cultural Resource Stewardship and Partnerships.

NCPTT is organized in three components — information management, research and training — and each component participates in four NCPTT programs — grants, projects, clearinghouse and consultations.

NCPTT's Components

Information Management

NCPTT's Information Management component develops NCPTT as a clearinghouse for preservation information, disseminates preservation information to a broad audience in a wide variety of media, and supports the development of electronic sources of preservation information.

Research

NCPTT's Research component encourages and supports the application of science and technology to the preservation of cultural resources, with emphasis on the transfer of new technologies from related fields and the role of atmospheric pollution in the deterioration of cultural resources. The Research component seeks to improve preservation practice and to benefit the nation's cultural resources.

Training

NCPTT's Training component supports and develops training in new preservation technologies, and the use of new media in delivering training. The Training component's work benefits individuals, public and private organizations and institutions, Federal agencies, and state and local governments.

NCPTT's Programs

Preservation Technology and Training Grants

Preservation Technology and Training Grants are NCPTT's chief means of stimulating original and innovative work that enhances the preservation of our nation's cultural resources.

The PTTGrants program was created within the legislation that also established NCPTT and the PTTBoard — "in order to ensure an effective and efficient system of research, information distribution and skills training in all the related historic preservation fields."

PTTGrants support work on technical issues in archeology, historic architecture, historic landscapes, objects and materials conservation, and interpretation. PTTGrants are awarded annually and competitively, following a call for proposals and a three-tiered review that includes external review by disciplinary peers. In 1994 and 1995, PTTGrants were awarded for research and training projects. In 1996, PTTGrants were awarded for research, training and information management projects. Since 1997, PTTGrants are awarded for eight project types —

- Information management
- Training and education
- Applied/fundamental research
- Environmental effects
- Technology transfer
- Analytical facility support
- Conference support
- Publications support.

Since 1994, requests for PTTGrants have totaled over $31 million; nearly $4.5 million have been awarded.

PTTGrants awarded in 1994-1999 are listed on the reverse of this brochure.

Preservation Technology and Training Projects

Each NCPTT component undertakes specialized projects that build on the personal professional expertise of NCPTT's senior staff, address aspects of NCPTT's mission and long-range plan, and continue or expand work initiated under the PTTGrants program.

PTTProjects for 1994-1999 are listed on the reverse of this brochure.

Preservation Technology and Training Clearinghouse

The Office of Technology Assessment report cited that "Efficient access to information remains one of the greatest impediments to effective management of cultural resources." NCPTT's PTTClearinghouse seeks to provide competent and useful preservation information in a variety of easily accessible media.

NCPTT's Website and Preservation Technology and Training Publications series are important activities within the PTTClearinghouse program.

NCPTT's Website address is <www.ncptt.nps.gov>.

PTTPublications distributes the results of PTTGrants and PTTProjects — in print, compact disk and video, and via Internet. PTTPublications includes NCPTT's newsletter — NCPTT Notes — published in six print and Web editions in 1999. *NCPTT Notes* features NCPTT's work and other information useful to the preservation community. The PTTPublications catalog is published annually as a supplement edition of *NCPTT Notes* — most recently as Spring Supplement 1999 (*NCPTT Notes* number 31).

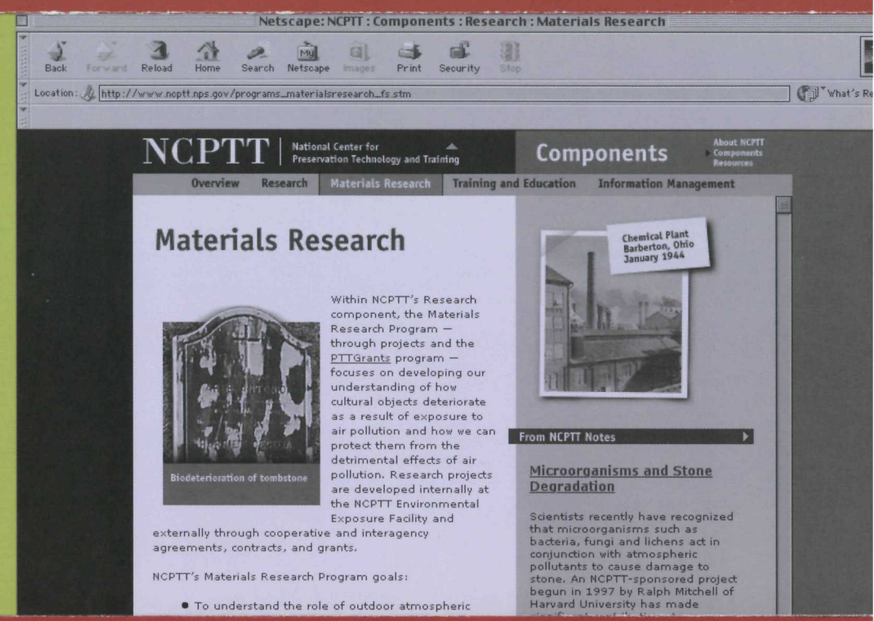
Preservation Technology and Training Consultations

The PTTConsultations service draws on the professional expertise of NCPTT's senior staff to provide on-site assistance for preservation projects, and to provide expert presentations at workshops, symposiums and conferences. PTTConsultations are NCPTT's opportunity for immediate impact locally, regionally and nationally.

NCPTT Finances

NCPTT is funded by two sources: an annual Congressional appropriation specifically for operating NCPTT and its programs, and support for NCPTT's Materials Research Program from the National Acidic Precipitation Assessment Program.

	1995	1996	1997	1998	1999
Available funds					
NCPTT	$1,849,000	$1,833,000	$1,824,000	$1,790,000	$1,797,000
Materials Research Program	524,000	558,000	518,000	546,000	565,500
Total	$2,373,000	$2,391,000	$2,342,000	$2,336,000	$2,362,500
Expenditures					
Administration/operations	$640,000	$372,000	$341,000	$330,000	$242,000
PTTGrants	933,000	720,000	638,000	715,000	900,000
PTTProjects	575,000	929,000	1,025,000	900,000	771,000
Staff and travel support for PTTGrants and PTTProjects	225,000	370,000	338,000	391,000	449,500
Total	$2,373,000	$2,391,000	$2,342,000	$2,336,000	$2,362,500



NCPTT Headquarters

Under a $3.35 million contract between the National Park Service and Northwestern State University of Louisiana — with Federal funds appropriated in 1994 —, NSU shall renovate a circa 1926 gymnasium listed on the National Register of Historic Places as NCPTT headquarters.

Groundbreaking for the project was in August 1997. A major fire in November 1997 destroyed the gymnasium interior and roof. The project currently is scheduled for completion in January 2001.

National Park Service

Robert G. Stanton
Director

Katherine H. Stevenson
Associate Director, Cultural Resource Stewardship and Partnerships

NCPTT is one of three national centers under the Associate Director for Cultural Resource Stewardship and Partnerships: NCPTT, the National Center for Cultural Resources Stewardship and Partnership Programs, and the National Center for Recreation and Conservation.

National Park Service
1849 C Street NW
Washington, DC 20240
Web <www.nps.gov>

NCPTT
NSU Box 5682
Natchitoches, Louisiana 71497
Telephone 318/357-6464
E-mail <ncptt@ncptt.nps.gov>
Web <www.ncptt.nps.gov>

NCPTT

Five permanent full-time National Park Service preservation experts serve as NCPTT's senior staff, supplemented by associates employed through a cooperative agreement with Northwestern State University of Louisiana and student assistants employed by the National Park Service. NCPTT staff totals 12-15.

Executive Director, 1994-1999
John Robbins
BArch, University of Virginia
Mr. Robbins has practiced as a preservation architect with the National Park Service and in private practice.

Information Management Coordinator, 1994-
Mary Carroll
MA, Arizona State University
Ms Carroll is an archeologist whose career has focused on designing and implementing computerized database systems for cultural resource management.

Materials Research Program Manager, 1995-
Dr. Mary F. Striegel
PhD, Washington University
Dr. Striegel is an inorganic chemist whose work has focused on materials effects and analytical techniques related to cultural resources conservation.

Research Coordinator, 1994-
Dr. Mark Gilberg
PhD, University of London Institute of Archaeology
Dr. Gilberg is a conservation scientist with international experience in a broad range of research and conservation issues.

Training Coordinator, 1994-
Frances Gale
MS, Columbia University
Ms Gale is an architectural materials conservator with extensive experience in the conservation of historic masonry structures and monuments, and preservation education.

Our Mission

United States Department of the Interior

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and to honor our trust responsibilities to tribes.

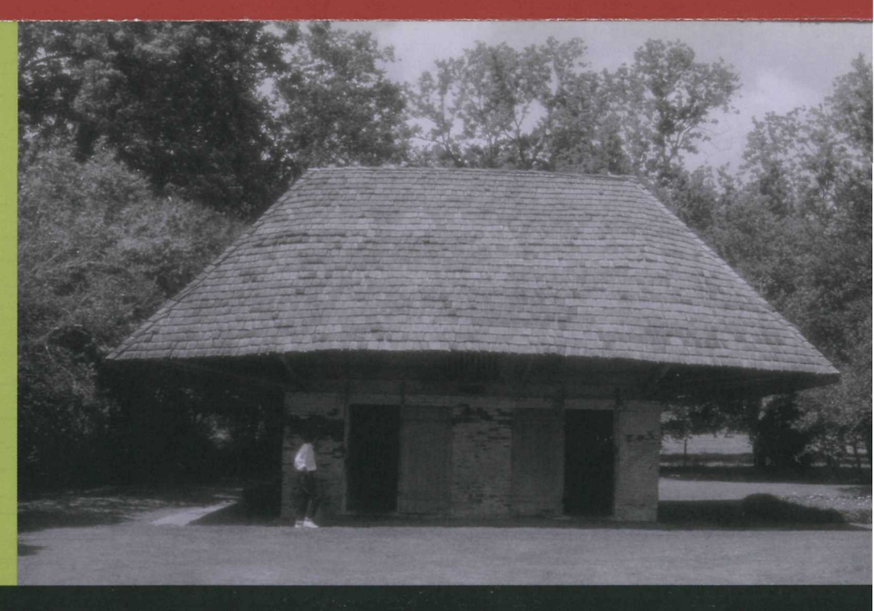
National Park Service

The National Park Service preserves unimpaired the natural and cultural resources and values of the National Park System for the enjoyment, education and inspiration of this and future generations. The Service cooperates with partners to extend the benefits of natural and cultural resource conservation and outdoor recreation throughout this country and the world.

National Center for Preservation Technology and Training

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

NCPTT, 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. NCPTT serves public and private practitioners through research, education and information management.



NCPTT

Preservation Technology and Training Grants and Projects

National Center for
Preservation Technology and Training

National Park Service
U.S. Department of the Interior

Legend

- **Information Management**
  - Grant
  - Project
- **Research**
  - Grant
  - Project
- **Training**
  - Grant
  - Project

Throughout the United States, NCPTT has undertaken important and varied work to advance the preservation of cultural resources. Partners in government, private practice, tribes, museums, universities and non-profits are important collaborators in nearly all that NCPTT has accomplished. This list summarizes NCPTT's work through the PTTGrants and PTTProjects programs.

Information Management · Research · Training

1999

207 Hawaii Traditional Cultural Places Inventory Database
Hawaii State Historic Preservation Office, Kapolei, Hawaii

206 JAIC Online
Foundation of the American Institute for Conservation, Washington, DC

205 National Register District GIS Project
Ohio State Historic Preservation Office, Columbus, Ohio

204 North American Database and Website of Archeological Geophysics
University of Arkansas, Fayetteville, Arkansas
Three-phase project initiated 1999

203 Olmsted Research Guide Online
National Park Service-Frederick Law Olmsted National Historic Site, Brookline, Massachusetts
Three-phase project initiated 1999

202 Distance Learning: Artifactual Conservation Treatment
The New York Public Library, Astor, Tilden and Lenox Foundations, New York, New York

201 Distance Learning: Conserving Historic Buildings
Washington State Historic Preservation Office, Olympia, Washington

200 Distance Learning: Paper Conservation
Northeast Document Conservation Center, Andover, Massachusetts
Two-phase project funded 1998 and 1999

199 Distance Learning: Preserving Thin-Shell Concrete Structures
The Pennsylvania State University, University Park, Pennsylvania
Two-phase project initiated 1999

198 Workshop: Recent Advances in Conserving Silver
Nebraska State Historic Preservation Office-Gerald R. Ford Conservation Center, Omaha, Nebraska

197 Effects of Color Temperature and Intensity
City University of New York-Brooklyn College, Brooklyn, New York
Two-phase project funded 1998 and 1999

196 Exploring the Interface of Nature and Culture
Atlantic Center for the Environment, Ipswich, Massachusetts

195 Luminescence Dating of Prehistoric Human Landscapes
University of Washington, Seattle, Washington

194 Micro-Fading Tester for Lightfastness Evaluation of Art and Artifacts
Carnegie Mellon University, Pittsburgh, Pennsylvania

193 Spectral Analysis of Soils Associated with Historic Trails of the Great Plains
University of Nebraska, Lincoln, Nebraska

192 Building Stones of America
National Institute of Standards and Technology, Gaithersburg, Maryland
Three-phase project funded 1998 and 1999

191 Improved Sol-Gel Consolidants for Stone
Princeton University, Princeton, New Jersey
Three-phase project initiated 1999

190 A New Protocol for the Analysis of Deteriorated Historic Mortars and Plasters
University of Delaware, Newark, Delaware
Two-phase project funded 1998 and 1999

189 Organic Coatings for Protecting Outdoor Bronze Sculpture
North Dakota State University, Fargo, North Dakota
Three-phase project initiated 1999

188 The Role of Microorganisms in Deterioration by Atmospheric Pollutants
Harvard University, Cambridge, Massachusetts
Three-phase project funded 1997-1999

187 Examination of Gilded Bronze Using Nondestructive Eddy Current Techniques
Freer Gallery of Art and Arthur M. Sackler Gallery, Washington, DC

186 Facility Support for Enhanced Analytical Services
Williamstown Art Conservation Center, Williamstown, Massachusetts
Three-phase project funded 1997-1999

185 Upgrade X-Ray Diffraction Facilities
The Detroit Institute of Arts, Detroit, Michigan

184 Symposium: Conservation and Preservation of Coquina
Florida State Historic Preservation Office, Tallahassee, Florida

183 Symposium: Protective Shelter Needs for Archeological Sites in the Southwest
United States Committee/International Council on Monuments and Sites, Washington, DC

182 A Graphic Guide to Historic American Timber Joinery
Timber Framers Guild of North America, Washington, Massachusetts

181 The Interplay of Drawings and On-Site Decisions in Outdoor Theater Designs of the New Deal
University of California, Berkeley, California

180 Digitize Chaco Map Collection
National Park Service-Chaco Culture National Historical Park, New Mexico

179 National Trust Library
University of Maryland, College Park, Maryland
Project funded 1994-1999

178 NCPTT's Preservation Technology and Training Internet Services
Project funded 1994-1999

177 Symposium: Delivering Archeological Information Electronically
Society for American Archaeology, Washington, DC
Center for Study of Architecture-Archaeological Data Archive Project, Bryn Mawr, Pennsylvania

176 Upgrade Chaco Project Electronic Databases and Publish Online
National Park Service-Chaco Culture National Historical Park, New Mexico

175 Deposition Studies on Textured Stone
University of Delaware, Newark, Delaware
Project funded 1997-1999

174 Materials Characterization of Carbonate Stone
University of Houston, Houston, Texas
Project funded 1997-1999

173 Materials Research Program Archives
Project funded 1997-1999

172 Materials Research Program Literature Project
Project funded 1996-1999

171 NCPTT Laboratories
Project funded 1996-1999

170 Preservation Treatment Guide on Tabby
National Park Service-Southeast Regional Office, Atlanta, Georgia

169 Soiling of Limestone Buildings
Carnegie Mellon University, Pittsburgh, Pennsylvania
Project initiated 1991, funded by NCPTT 1995-1999

168 Developing Statewide Preservation Organizations
National Trust for Historic Preservation, Washington, DC
Project funded 1996-1999

167 Controlling Formosan Termites Using Toxic Baits
City of New Orleans Mosquito and Termite Control Board, New Orleans, Louisiana
Project funded 1997-1999

166 Cultural Landscape Field Techniques for Sustainable Earthworks Management
National Park Service-Southeast Regional Office, Atlanta, Georgia

165 Exhibit Conservation Guidelines
National Park Service-Harpers Ferry Center-Division of Conservation, Harpers Ferry, West Virginia

164 Laser Cleaning Research Facility at LACMA
Los Angeles County Museum of Art, Los Angeles, California

163 Protective Glazing on Stained Glass Windows
Enermodal Engineering, Inc., Denver, Colorado
Project funded 1997-1999

162 Software for Calculating the Economic Impacts of Historic Preservation
Rutgers University-Center for Urban Policy Research, New Brunswick, New Jersey

161 Symposium: New Surveillance Technologies for Protecting Archeological Resources Against Looting and Vandalism
University of West Florida, Pensacola, Florida
US Navy-Naval Surface Warfare Center-Coastal Systems Station, Panama City, Florida

160 Workshop: Control of Subterranean and Drywood Termites
City of New Orleans Mosquito and Termite Control Board, New Orleans, Louisiana

159 Collaborative Conservation Training
Smithsonian Institution, Washington, DC

158 Conference: Architectural Terra Cotta
New York Landmarks Conservancy, New York, New York

157 Developing a Preservation Arts High School
New Jersey Institute of Technology, Newark, New Jersey
Project funded 1998 and 1999

156 Distance Learning: Building Preservation Technology
Texas A&M University, College Station, Texas

155 Dyea Townsite Remote Sensing Project
National Park Service-Klondike Gold Rush National Historical Park, Dyea, Alaska

154 Heritage Education Website
Middle Tennessee State University-The Center for Historic Preservation, Murfreesboro, Tennessee

153 International Internships
United States Committee/International Council on Monuments and Sites, Washington, DC
Project funded 1995-1999

152 NCPTT's Training Database
Project funded 1995-1999

1998

151 Albumen WebSite: Science, Technology and Treatment of Albumen Photographs
Monterey Museum of Art, Monterey, California

150 Conservation Materials Database
Museum of Fine Arts, Boston, Massachusetts

149 Online Information for Preserving Religious Properties
Partners for Sacred Places, Philadelphia, Pennsylvania

148 Distance Learning: NEPA for Preservationists
National Preservation Institute, Alexandria, Virginia

147 Workshops: Ground Penetrating Radar
University of Denver, Denver, Colorado

146 Workshops: Harlem - Preserving a Historic Neighborhood
Abyssinian Development Corporation, New York, New York

145 Draft Historic Building Code
Association for Preservation Technology International, Williamsburg, Virginia

144 Modeling Simulated Archeological Features Using Advanced Geophysical Techniques
US Army Construction Engineering Research Laboratories, Champaign, Illinois

143 Nondestructive Methods for the Structural Evaluation of Wood Floor Systems in Historic Buildings
Purdue University, West Lafayette, Indiana
Two-phase project funded 1997 and 1998

142 Masonry - 160 years of Indexed Bibliography
The Masonry Society, Boulder, Colorado

141 Protective Coating Systems for Outdoor Bronze Sculpture and Ornamentation
National Gallery of Art, Washington, DC
Three-phase project funded 1995 and 1997-1998

140 Removing Gypsum Crusts from Carbonate Rocks
Art2Facts, New York, New York

139 Exploring Archeological Sites Using a Modified Magnetic Susceptibility Probe
Southern Illinois University, Edwardsville, Illinois

138 Conference: National Archeological Collections Management
Society for Historical Archaeology, Tucson, Arizona

137 Conference: Preserving Historic Guastavino Tile Ceilings, Domes and Vaults
New York Landmarks Conservancy, New York, New York

136 Proceedings of the 11th Conference on Restoring Southern Gardens and Landscapes
Old Salem, Inc., Winston-Salem, North Carolina

135 Research Priorities for Natural History Collections Conservation
Society for the Preservation of Natural History Collections, Washington, DC

134 Salt Decay of Porous Materials - A Literature Review
United States Committee/International Council on Monuments and Sites, Washington, DC

133 Carbonate Stone Decay Model and Materials Research Program Synthesis
US Geological Survey, Menlo Park, California
Project funded 1995, 1996 and 1998

132 Deposition Studies on Consolidated Stone
Project funded 1996-1998

131 Hiker Bronze Monograph
University of Delaware, Newark, Delaware
Project initiated 1983; funded by NCPTT 1995-1998

130 Using UV Photography to Document Water Flow Patterns
Vernon Miller and Associates, Santa Barbara, California
Project funded 1997 and 1998

129 Identifying Pigments in Colored Pencils
Kress Foundation, New York, New York
American Society for Testing and Materials-Institute for Standards Research, West Conshohocken, Pennsylvania
Colored Pencil Society of America, Washington, DC
The University of North Carolina at Greensboro, Greensboro, North Carolina

128 Symposium: Conducting Economic Impact Studies in Historic Preservation
Rutgers University-Center for Urban Policy Research, New Brunswick, New Jersey

127 Symposium: Research Priorities in Historic Landscapes
University of Oregon, Eugene, Oregon

1997

126 Advancing SHPO Geographic Information Systems in the Western United States
New Mexico State Historic Preservation Office, Santa Fe, New Mexico
Wyoming State Historic Preservation Office, Cheyenne, Wyoming

125 Digitization of Primary Documents Pertaining to Archeological Collections from California and Nevada in the Phoebe Hearst Museum of Anthropology
University of California-Phoebe Hearst Museum of Anthropology, Berkeley, California

124 Michigan Historic Sites Database Online
Michigan State Historic Preservation Office, Lansing, Michigan

123 Distance Learning: Preservation TrainNet
Goucher College, Towson, Maryland

122 Video: Applying the Secretary of the Interior's Standards to Historic Districts
Oregon State Historic Preservation Office, Salem, Oregon

121 Workshops: Lead Paint and Historic Preservation
Illinois State Historic Preservation Office, Springfield, Illinois

120 Workshop: Techniques for Restoring and Conserving Three-Dimensional and Stained Glass Objects
Nebraska State Historic Preservation Office-Gerald R. Ford Conservation Center, Omaha, Nebraska

119 Museum Lighting Protocol
Rensselaer Polytechnic Institute, Troy, New York

118 Nondestructive Method for Evaluating the Hardness of Pointing Mortars
Rocky Mountain Masonry Institute, Denver, Colorado

117 Coordinate Measurement of Ships and Smallcraft
Mystic Seaport Museum, Inc., Mystic, Connecticut

116 Digital Image Enhancements and Compositing of Plan View Geophysical Data Sets
Boston University, Boston, Massachusetts

115 Digital Videographic Imaging of Archeological Data
Anne Arundel County Trust for Preservation, Inc., Annapolis, Maryland

114 Non-Linear Documentation Strategies for Incorporating Computerized Solid Modeling in Historic Building Surveys
Texas A&M University, College Station, Texas

113 Subsurface Acoustical Imaging Technology - Ground Penetrating Sonar
Scripps Institution of Oceanography, San Diego, California

112 Symposium: Care and Preservation of Historic Vehicles
The Museums at Stony Brook, Stony Brook, New York

111 Symposium: Conservation and Preservation of Tabby
Georgia State Historic Preservation Office, Atlanta, Georgia

110 Symposium: *Teaching with Historic Places*
National Park Service-National Register of Historic Places, Washington, DC

109 Conservation of Historic Brick Structures
New York University-Institute of Fine Arts, New York, New York

108 Recent Advances in GIS Applications for Archeology
University of Chicago, Chicago, Illinois

107 Rock Art Conservation - Theory and Practice
American Rock Art Research Association, Tucson, Arizona

106 US Policy for Protecting Submerged Cultural Resources Beyond the Three-Mile Limit
Boston University, Boston, Massachusetts

105 Creating, Maintaining and Sharing Historic Resource Surveys on the Internet
University of Houston, Houston, Texas

104 Image Analysis Software
A. Raouf Eldeeb, San Jose, California
US Geological Survey, Menlo Park, California

103 Statistical Analysis of NAPAP Chemical/Physical Data
Terry J. Reedy, Newark, Delaware

102 Statistical Analysis of NAPAP Meterological Data
Terry J. Reedy, Newark, Delaware
Project funded 1996 and 1997

101 Historic Dirt Surfaces
Los Alamitos Foundation, Long Beach, California

100 Preserving Cultural Landscapes along Historic Trails
National Park Service-Denver Service Center, Denver, Colorado

99 Using Submeter GPS to Survey Archeological Sites
University of Northern Colorado Research Corporation, Greely, Colorado

98 Symposium: The Conservation of Outdoor and Indoor Sculpture and Monuments
Brookgreen Gardens, Murrells Inlet, South Carolina
Save Outdoor Sculpture!, Washington, DC
Southeastern Museums Conference, Baton Rouge, Louisiana
North Carolina Museums Council, Raleigh, North Carolina
South Carolina Federation of Museums, Columbia, South Carolina
Association for the Preservation of Historic Natchitoches, Natchitoches, Louisiana

1996

97 Arizona's Cultural Resource Database - Developing a Master Plan
Arizona State Museum, Tucson, Arizona

96 Computerizing Maryland's Historic Site Records
Maryland State Historic Preservation Office, Crownsville, Maryland

95 A Creole Heritage Preservation Guide
St. Augustine Historical Society, Natchitoches, Louisiana

94 Internet Access to State-by-State Preservation Law
National Council of State Historic Preservation Officers, Washington, DC
National Conference of State Legislatures, Denver, Colorado

93 Maritime Cultural Resources - Developing and Sharing an Expandable Online Database
Ohio State Historic Preservation Office, Columbus, Ohio

92 Providing Public Access to Hawaii's Preservation Information via World Wide Web
Hawaii State Historic Preservation Office, Honolulu, Hawaii

91 UVa Law Library Collection - Developing an Internet Database for Preservation Law
University of Virginia Law School Foundation, Charlottesville, Virginia

90 Developing Comprehensive Testing Protocols for Protective Coatings for Silver Objects in Museum Collections
Corrosion and Materials Research Institute, Newark, Delaware

89 Developing Models for Parking and Pedestrian Circulation Design in Historic Downtowns
University of Kentucky, Lexington, Kentucky

88 Developing a Prototypical Historic Fire Risk Index to Evaluate Fire Safety in Historic Buildings
Fire Safety Institute, Middlebury, Vermont

87 Developing Standards and Procedures for Recording Courthouses Using Customized Digital Technologies
University of Texas, San Antonio, Texas

86 A New Technique for Accurately Dating Prehistoric Rock Paintings
Texas A&M University, College Station, Texas

85 Using Aerial Photography to Document and Monitor the Condition of Prehistoric Earthen Structures
Society for American Archaeology, Washington, DC

84 Using Three-Dimensional Ground Penetrating Radar to Locate and Identify Buried Archeological Features
University of Colorado, Boulder, Colorado

83 Building Code Issues in Rehabilitation - Solutions and Precedents
California Preservation Foundation, Oakland, California

82 Distance Learning: Preserving Mechanical Systems
Belmont Technical College, St. Clairsville, Ohio

81 Video: *Restoring Dry-Stone Walls and Fences*
Kentucky Heritage Council, Frankfort, Kentucky

80 Workshop: Cultural Resources Protection for Northern Nevada Tribes
Washoe Tribe of Nevada and California, Gardnerville, Nevada

79 Workshop: Historic Landscapes
The Alliance for Historic Landscape Preservation, New York, New York

78 Workshop: Historic Preservation Short Course for Planning and Preservation Commissioners
University of Georgia, Athens, Georgia

77 Workshop and Technical Field Guide: Hazards in Conservation Materials and Processes
RESTORE, New York, New York

76 Internet Communications Survey
Louisiana State University, Baton Rouge, Louisiana

75 Chamber Study of Pollutant Deposition to Stone Surfaces
US Geological Survey, Reston, Virginia
Project initiated 1984; NCPTT assumed responsibility 1995

74 Electrochemical Materials Testing
National Park Service-Harpers Ferry Center-Division of Conservation, Harpers Ferry, W. Virginia

73 Researching Bronze Corrosion in Marine Environments
Urban Art, Inc., Los Angeles, California

72 State-of-the-Art Literature Review on Acid Deposition and Stone Deterioration
United States Committee/International Council on Monuments and Sites, Washington, DC

71 Stone Field Test Site Exposure
Argonne National Laboratory, Argonne, Illinois
Project initiated 1983; funded by NCPTT 1995 and 1996

70 Camp Ruston Oral History Project
The Camp Ruston Foundation, Inc., Ruston, Louisiana

69 Electronic Marker Systems for Locating Re-Buried Archeological Sites
Washington State Historic Preservation Office, Olympia, Washington

68 Investigating the Use of Lasers for the Preservation of Cultural Materials
Los Angeles County Museum of Art, Los Angeles, California

67 Second International Conference on Wood Protection with Diffusible Preservatives
Forest Products Society, Madison, Wisconsin

66 Conference: Preserving the Past and Building the Future
American Institute of Architects-Historic Resources Committee and American Institute for Conservation of Historic and Artistic Works-Architecture Specialty Group, Washington, DC

65 Heritage Education Survey
Middle Tennessee State University-The Center for Historic Preservation, Murfreesboro, Tennessee

64 Preservation Leadership Training
National Trust for Historic Preservation, Washington, DC
Association for the Preservation of Historic Natchitoches, Natchitoches Historic Foundation and Main Street Natchitoches, Natchitoches, Louisiana

63 Preservation Weekends
Texas Historical Foundation, Texas State Historic Preservation Office and University of Texas, Austin, Texas
Colorado Preservation Inc., Denver, Colorado

62 Workshop: Saving Historic Architecture and Antiques
National Park Service-Natchez National Historical Park, Natchez, Mississippi
Association for the Preservation of Historic Natchitoches, Natchitoches, Louisiana

1995

61 Analyzing the Economic Impact of Historic Preservation in Our Nation's Most Densely Populated State
New Jersey Historic Trust, Trenton, New Jersey

60 Analyzing the Effect of an Indoor Pollutant on Traditional Easel Paintings
Indiana University Art Museum, Bloomington, Indiana

59 Designing a Controlled Archeological Test Site for Evaluating Non-Invasive Technologies for Archeological Site Assesment
US Army Construction Engineering Research Laboratories, Champaign, Illinois

58 Developing a Conservation Inventory of Frank Lloyd Wright Structures
Frank Lloyd Wright Building Conservancy, River Forest, Illinois

57 Developing Agent-Based Computer Simulations for Identifying and Interpreting Archeological Sites
Washington State University, Pullman, Washington

56 Documenting the Movement of Historic Objects Using Advanced Computer Simulation Technologies
National Preservation Institute, Washington, DC

55 Evaluating the Impact of Revegetation on the Preservation of Archeological Sites
University of Mississippi, University, Mississippi

54 Field Testing a Non-Invasive, Non-Toxic Baiting System for Protecting Historic Structures from Subterranean Termites
University of Florida, Fort Lauderdale, Florida

53 Field Testing Remote Sensing Systems for the Protection of Historic and Prehistoric Sites and Monuments from Vandalism
University of California, Riverside, California

52 Investigating Relationships between Heritage Preservation and Economic Development in Rural Areas Using the Bayou Teche Heritage Corridor as a Model
Louisiana State University, Baton Rouge, Louisiana

51 Investigating the Biogeochemical Relationship between Prehistoric Rock Paints and Natural Rock Accretions
Newberry College, Newberry, South Carolina

50 Investigating the Use of Silicones for the Treatment of Wet or Waterlogged Organic Materials
Texas A&M University, College Station, Texas

49 Investigating the Use of Turn-of-the-Century Whitewares as Economic Indicators for Evaluating Sites for National Register Eligibility
Ohio State Historic Preservation Office, Columbus, Ohio

48 Preparing a Directory of Chemical Spot Tests for Materials Characterization
University of Arizona, Tucson, Arizona

47 Researching the Use of Oral Histories to Interpret African-American Theaters in the South
City of Macon, Macon, Georgia

46 Construction Technology Manual for Historic Buildings in Puerto Rico and the Caribbean
Caribbean Heritage, Guaynabo, Puerto Rico

45 Distance Learning: A Multimedia Approach to Training Staff in Simple Book Repair
Dartmouth College, Hanover, New Hampshire

44 Heritage Education Teacher's Manual Using Historic Landscapes
Morgan County Landmarks Society, Madison, Georgia

43 Seminar: Landscaping for Historic Properties
Southern Cultural Heritage Foundation, Vicksburg, Mississippi

42 Training for Instructor's Certificate in the Building Trades
University of Vermont, Burlington, Vermont

41 Video: *Culture Shock - Fire Protection for Historic and Cultural Property*
Boston University, Boston, Massachusetts

40 Video: *Lead-Based Paint Abatement in Historic Structures*
Maryland State Historic Preservation Office, Crownsville, Maryland

39 Workshop: American Indian Voices in Preservation
Crow Canyon Archaeological Center, Cortez, Colorado

38 Workshop: Diagnosing Moisture in Historic Buildings
The Friends of Meridian Hill, Washington, DC

37 Workshop: Investing in the Past - Informed Decision Making for Historic Preservation in the Private Sector
Wilkinson County Museum, Woodville, Mississippi

36 Workshops: Preservation Skills Training
Historic Windsor, Inc., Windsor, Vermont

35 Workshops: Preservation Training for Local Governments
Georgia Department of Archives and History, Atlanta, Georgia

34 Workshops: Preserving Our Endangered Past
Slater Mill Historic Site, Pawtucket, Rhode Island

33 Workshop and Training Manual: Three-Dimensional Coordinate Measurement of Historic Artifacts
Mystic Seaport Museum, Inc., Mystic, Connecticut

32 Youth Training in Vernacular Earthen Architecture and Associated Cultural Traditions
Cornerstones Community Partnerships, Santa Fe, New Mexico

31 Characterization of the Decay Found on Marble and Limestone Buildings
US Geological Survey, Reston, Virginia
Project initiated 1984; NCPTT assumed responsibility 1995

30 Cost Benefit Analysis of Bridge Degradation
Carnegie Mellon University, Pittsburgh, Pennsylvania
Project initiated 1993; NCPTT assumed responsibility 1995

29 Field Studies of Carbonate Stone Dissolution
US Geological Survey, Denver, Colorado
Project initiated 1983; NCPTT assumed responsibility 1995

28 In-Situ Monitoring of Cultural Resources
Illinois State Water Survey, Champaign, Illinois
Project initiated 1986; NCPTT assumed responsibility in 1995

27 Save Outdoor Sculpture! - Louisiana Survey
Louisiana State University, Baton Rouge, Louisiana
Project funded 1994 and 1995

26 Analytical Services in Support of Historic Preservation
Frank Preusser and Associates, Los Angeles, California

25 Conservation Design for an Independence Hall Exhibit
National Park Service-Harpers Ferry Center, Harpers Ferry, West Virginia

24 Investigating Low-Altitude Remote Sensing
National Park Service-Denver Service Center, Denver, Colorado

23 Research Priorities in Art and Architectural Conservation
American Institute for Conservation of Historic and Artistic Works, Washington, DC

22 Workshop: Museum Exhibit Lighting - Conservation Lighting Design and Current Technology
Washington Conservation Guild, Freer Gallery of Art and Arthur M. Sackler Gallery, Washington, DC
National Park Service-Harpers Ferry Center-Division of Conservation, Harpers Ferry, West Virginia

21 Workshop: Archeology for Managers
National Park Service-Archeology and Ethnography, Washington, DC

20 Workshop: Heritage Areas
Northwestern State University of Louisiana, Natchitoches, Louisiana

19 Workshop: NAGPRA
National Park Service-Archeology and Ethnography, Washington, DC

18 Workshop: Soils and Archeology
Northeast Louisiana University, Monroe, Louisiana

17 Workshop: Timber Framing
Timber Framers Guild of North America, Bellingham, Washington
Texas Department of Parks and Wildlife, Austin, Texas

1994

16 Interactive Multimedia Training for Advanced Mapping Technologies
Bureau of Land Management, Phoenix, Arizona

15 Preservation Resource Guide for Public Works Managers
American Public Works Association, Kansas City, Missouri

14 Proceedings of *The Techniques and Uses of Garden Archaeology* Conference
United States Committee/International Council on Monuments and Sites, Washington, DC

13 Video: *Connections - Preserving America's Landscape Legacy*
American Society of Landscape Architects, Washington, DC

12 Workshop: Methods of Archeological Site Discovery and Evaluation
Society for American Archaeology, Washington, DC
National Park Service-Archeology and Ethnography, Washington, DC

11 Workshop: Native Americans and Archeology
Arizona Archaeological Council, Kykotsmovi, Arizona

10 A Database for the Study of 20th Century Building Materials
National Council for Preservation Education, Ithaca, New York

9 Effectiveness of Protective Glazing for Historic Stained Glass Windows
Inspired Partnerships, Chicago, Illinois

8 Efficient Techniques for Analyzing Blood Residues on Tools from Archeological Sites
Smithsonian Institution-Conservation Analytical Laboratory, Washington, DC

7 Guidelines for Allowable Temperature Fluctuations in Museums and Historic Properties
Smithsonian Institution-Conservation Analytical Laboratory, Washington, DC

6 Improvements of Existing Heating and Air Conditioning Systems in Historic Structures
New York State Historic Preservation Office, Waterford, New York

5 Low-Cost Photogrammetric Data Archival System
University of Arkansas, Fayetteville, Arkansas

4 Methods and Technologies for Preserving Woody Plants in Historic Landscapes
Harvard University-Arnold Arboretum, Cambridge, Massachusetts

3 Preserving Historic Carved Sandstone Buildings in Marine Environments
Historic Preservation Commission, Monterey, California

2 Testing the Energy Performance of Historic Windows in Cold Climates
Vermont State Historic Preservation Office, Montpelier, Vermont

1 NCPTT Headquarters Rehabilitation
Northwestern State University of Louisiana, Natchitoches, Louisiana

This list corresponds to the current descriptive catalog of NCPTT's grants and projects work published as the 1999 Fall Supplement edition of NCPTT's newsletter, NCPTT Notes. *Contact NCPTT for a copy of* NCPTT Notes *34.*