

**TIMOTHY M. NOBLE**  
**President**

**EDUCATION**

**University of Pennsylvania**  
**Graduate Program in Historic Preservation**

Master of Science, Historic Preservation, Emphasis in Materials Conservation, 1983.

**Apprenticeship in, Construction, Conservation and Restoration of Stringed Instruments  
with Master Luthiers Arthur Falardeau and Andrew Boarman**

Apprenticeship, 1974-1977.

**Conservation and Restoration of Stringed Instruments, Antique Furniture and Decorative  
Arts**

Full time practice in restoration/conservation of antique objects including metals, wood, finishes  
and accessories. 1974–1983.

**Pennsylvania State University**

B.A., GSA, Emphasis in American and European History, 1974.

**EXPERIENCE:**

Noble Preservation Services, Inc., Zionsville, PA: President. 1992-present.

Owner and Principal in Charge of all operations, specializing in historic preservation,  
architectural conservation, building investigation, history and research.

Clio Group, Inc., Philadelphia, PA: 1983-1993; Partner 1985 – 1993, President, 1991-1993.

Consultation in architecture, history, conservation and historic preservation.

Goschenhoppen Historians, Inc., Green Lane, PA: Restoration Committee Chairman, 1992- 2007 Long  
term involvement in an organization founded to preserve and restore Germanic architecture in Berks,  
Bucks, Lehigh and Montgomery Counties, PA. Current activities include the restoration and  
interpretation of the 1736 Henry Antes House (National Historic Landmark).

Stenton, Germantown, PA: Executive Director, 1991-1992.

Directed 1720s National Historic Landmark which was the home of James Logan, William Penn's  
agent in the colonies.

Historic Rittenhouse Town, Philadelphia, PA: History Committee Chairman, 1991-1992.

Responsibilities included historical research and interpretation of 18<sup>th</sup> and 19<sup>th</sup> century industrial  
village.

Knoll International, East Greenville, PA: Consultant in Furniture design and construction, 1981-1983.

**RESEARCH AND PROFESSIONAL ACTIVITIES:**

- Professional Associate of American Institute For the Conservation of Historic & Artistic Works, 1997 - present
- Member of Association For Preservation Technology, 1995 - present
- Member of National Trust For Historic Preservation
- Historical Society of Pennsylvania
- Moravian Historical Society
- Author and Investigation in the European Antecedents of Building Practice in America
- Professional Architectural Photography
- History and Development of Limes and Mortars in the United States
- Advanced Analytical Analysis of Mortars, Stones, Metals and Decorative Finishes
- History and Development of the Iron Industry
- Materials Identification and Traditional Building Techniques
- Wood Technology and Restoration
- Assisted National Park Service Mid-Atlantic Regional Office in the preparation of *Preservation Tech Note #17 - Windows*, a detailed study on the repair and retrofitting of industrial steel windows. Preservation Assistance Division, National Park Service, Washington, DC, 1989.

**PROFESSIONAL AWARDS:**

- 2007 *New Jersey Historic Preservation Award*, Restoration of the exterior of Newark City Hall, Newark NJ. Architect: Farewell Mills Gatsch Architects LLC.
- 2005 *New Jersey Historic Preservation Award, Salem Historic Homes*
- 2003 *The Preservation Alliance For Greater Philadelphia*, 2003 Preservation Achievement Grand Jury Award for the Restoration of the Cassatt House. Client: Library Company of Philadelphia. Architect: Becker Winston Architects.
- 2001 *Preservation Pennsylvania, Inc/ Pennsylvania Historical & Museum Commission, Historic Preservation Achievement Award* for the Restoration of the Henry Antes House. Client: Goschenhoppen Historians Inc.
- 2000 *The Preservation Alliance For Greater Philadelphia*, 2000 Preservation Achievement Award for the Restoration and Rehabilitation of Irvine Auditorium, University of Pennsylvania. Architect: Venturi Scott Brown and Associates.
- 2000 *Preservation Pennsylvania, Inc/ Pennsylvania Historical & Museum Commission, Historic Preservation Achievement Award* for the Restoration and Rehabilitation of Irvine Auditorium. Owner: University of Pennsylvania. Architect: Venturi Scott Brown and Associates.
- 1999 *New Jersey Landmarks Commission Award* for the adaptive reuse of Academy Place rowhouses, Trenton, NJ, 1999. Principal in charge, serving as historic preservation consultant for certified rehabilitation of 11 rowhouses in Trenton. Owner: Pennrose Properties. Architect: Clarke Caton Hintz.
- 1999 *Preservation Pennsylvania, Inc/ Pennsylvania Historical & Museum Commission* Preservation of Public Art Award (project award) for the restoration of the Commonwealth Statue, Pennsylvania State Capitol, Harrisburg, PA, Principal within Joint Venture charged with defining project scope, managing the conservation and air-crane removal and replacement of R.H. Perry's statue Commonwealth atop the main dome of the Pennsylvania Capitol. Owner: Department of

General Services. Professional: Perfido Weiskopf/Graves/Noble Joint Venture (Principal).  
Contractor: Conservation Technical Associates.

*1999 Historic Preservation Award for Commercial/Industrial Rehabilitation* (project award) for the rehabilitation of the Lincoln Plaza and Conference Center, Reading, PA, 1999. Principal in charge, serving as historic preservation consultant for certified rehabilitation of one of Reading's most significant architectural landmarks. Owner: Pennrose Properties. Architect: Muhlenberg-Greene, Synergetics.

*1998 Pennsylvania Historical and Museum Commission Historic Preservation Award* for the rehabilitation of the McFarland Press Building in Harrisburg, PA. Principal in charge of historic preservation design consultation for the rehabilitation of a late 19<sup>th</sup> century industrial building into low-income housing. Owner: Pennrose Properties. Architect: Stuart LeFever Architects.

*1994 Award for Excellence in Design by the Art Commission of the City of New York* for the conservation and restoration of the New York City Coat of Arms from McCombs' Dam Bridge. Principal in charge of conservation and materials studies for the Hooper Fountain and McCombs' Dam Bridge. Owner: New York City Department of Transportation. Architects: Modjeski & Masters, Inc. and H2L2 Architects and Planners.

*1991 Preservation Initiative Award from the Pennsylvania Historical and Museum Commission* for preparation of an eleven volume Historic Structures Report for Old Economy Village. Owner: Pennsylvania Historical and Museum Commission.

*1991 Historic Preservation Accommodation for Residential Rehabilitation* for the rehabilitation of the Von Louhr Apartments, Philadelphia, PA. Principal in charge of design consultation for rehabilitation of historic property. Owner: Philadelphians Concerned About Housing.

*1991 Historic Preservation Accommodation for Multi-Family Residential Rehabilitation* of Diamond Street Properties, Philadelphia, PA. Principal in charge of design consultation for historic preservation tax credits on a series of urban rowhouses. Owner: Pennrose Properties.

*1990 Historic Preservation Accommodation for Institutional Rehabilitation Award* for rehabilitation of the Dunlap School building. Principal in charge of historic preservation design consultation for procurement of certified rehabilitation tax credits. Owner: Pennrose Properties.

*1989 Historic Preservation Accommodation for Multi-Family Residential Rehabilitation Award* for rehabilitation of Regent/Rennoc Apartments, Philadelphia, PA. Principal in charge of historic preservation design consultation. Owner: Pennrose Properties.

#### **SELECTED LECTURES:**

“Masonry Conservation Testing and Assessment For The Pennsylvania State Capitol”, Annual Meeting for the American Institute for the Conservation of Historic & Artistic Works (AIC), Dallas, TX, 2003.

“Conservation and Restoration of Historic Decorative Finishes at Horace Trumbauer's Irvine Auditorium at the University of Pennsylvania.” Presented to the Association for Preservation Technology/Delaware Valley Chapter, 1999.

“Investigations and Conclusions on the 1707 Claus Rittenhouse Home and Outbuilding, Fairmount Park, Philadelphia, PA.” Keynote Speaker, Annual Meeting of Historic Rittenhouse Town, Inc., 1996.

“18<sup>th</sup> Century Construction Techniques and Materials Used in the Restoration of the 1736 Henry Antes House, Montgomery County, PA.” Boyertown Historical Society, 1996.

- “Moravian Architecture, Constitution and Town Planning: The Moravian Settlement at Hope, NJ.”  
Lecture given for the commemoration of the 225<sup>th</sup> anniversary of the establishment of Hope, 1994.
- “Restoration Planning for the 1736 Henry Antes House, Montgomery County, PA.” Lecture presented at the Daniel Boone Homestead, 1992.
- “The Iron Industry in Pennsylvania: Process, Utility, and Design.” Keynote Speaker for annual meeting of Historic Bethlehem, Inc., 1991.
- “The Founders of Bethlehem, Pennsylvania: Henry Antes, Colonial Master Builder.” Lecture for the celebration of the 250<sup>th</sup> anniversary of the founding of Bethlehem, PA. Moravian Historical Society, 1991.
- “17<sup>th</sup>, 18<sup>th</sup> and 19<sup>th</sup> Century Domestic Architecture of Historic Rittenhouse Town.” Lecture presented in honor of the tri-centennial celebration of Historic Rittenhouse Town, sponsored by the Library Company of Philadelphia, 1990.
- “Germanic Architectural Practice in Colonial Pennsylvania.” Presented to the German Society of Pennsylvania and Historic Rittenhouse Town, 1989.
- “Architecture and Preservation in Reading.” Live television lecture, Berks County Public Television, 1987.
- “Historical Analyses and Materials Studies of the 1734 Shelter House.” Lecture presented to address the National Register listing of an early Germanic log building, Shelter House Society, Emmaus, PA, 1985.

#### **SELECTED REPRESENTATIVE PROJECTS:**

##### **Preservation Consultant Services for PHMC Historic Sites and Museums, 5-year Contract, Harrisburg, PA**

In a Joint Venture partnership with Perfido Weiskopf Architects of Pittsburgh, Noble Preservation provides PHMC with preservation and conservation consultation services related to the preservation, maintenance, and restoration of Commonwealth historic sites across Pennsylvania. Scope of work includes project administration, construction management, conservation, historic structures reports, materials studies, in addition to other preservation-related activities. 2008 - 2012.

Client: Pennsylvania Historical and Museum Commission (PHMC)

##### **Pennsylvania State Capitol, Harrisburg, PA. Restoration of the Peristyle, Moisture Monitoring and Materials Conservation**

Partner within Perfido Weiskopf/ Noble Preservation Joint Venture, the firm serving as Project Professional. In charge of defining scope, building investigations, moisture assessment and monitoring, conservation, preparation of restoration specifications, engineering and construction administration and supervision. 2007 – 2012.

Client: Pennsylvania Department of General Services.

##### **World Food Prize/Des Moines Public Library, Des Moines, Iowa**

Materials testing, analysis, specifications for Decorative Finishes and Masonry Conservation for landmark building constructed in 1900. 2007 – 2009.

Architect: RDG Bussard Dikis, Inc.

**Green Hills, National Historic Landmark, National Historic Landmark Home of Noted Author and Humanitarian Pearl S. Buck. Perkise, PA 2002 – 2008**

Materials investigations and testing, assistance with Historic Structures Report, Conservation Analysis of Collections and Building as part of Fire Protection Study funded by a Getty Grant. 2002- 2008.

Client: Pearl S. Buck International

Architect: Farewell Mills Gatch

**Converse House, 1610, Locust Street, Phila. PA.**

Conservation studies and restoration services on significant 1893 elaborate sandstone townhouse built for the president of the Baldwin Locomotive Co. Studies and specifications include masonry conservation, finishes, window restoration and leaded glass conservation. 2007 – 2009.

Client: Curtis Institute of Music

Architect: Venturi Scott Brown and Associates.

**Oglebay Hall, University of West Virginia, Morgantown, WV**

Working with Perfido Weiskopf Architects and the University of West Virginia on the exterior rehabilitation of this significant campus building. Services included materials testing specifically related to the conservation of terra cotta, stone, and brick, and specifications for masonry cleaning, pointing, and repair. 2005- 2007.

Client: Perfido Weiskopf Architects

**Clara Barton Apartment, Founder of the American Red Cross, Washington D.C.**

Conservation Treatment Plan, Historic Structures Report, conservation/restoration consultation and supervision on significant 19<sup>th</sup> century apartment and office discovered in 2000 and preserved as a federal museum. 2002 – 2007.

Client: General Services Administration, District of Columbia

Architect: Farewell Mills Gatch

**Single Sisters House at Salem College, National Historic Landmark 1785 Moravian Building,**

Winston Salem, North Carolina.

Building investigations, materials analysis, assistance with Historic Structures Report, education and public outreach on one of the last unrestored 18<sup>th</sup> century Moravian structures. 2004 – 2006.

Client: Salem College

Architect: Marianna Thomas Architects

**York County Courthouse, York, PA**

Working with the County of York on the rehabilitation and restoration of the three domes of the courthouse roof. Services include materials testing, survey of existing conditions, maintenance and specification documents, and construction administration. 2000 – 2003.

Client: County of York, PA

**Preservation Consultant Services for PHMC Historic Sites and Museums, 5-year Contract,**

Harrisburg, PA

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includes project administration, construction management, conservation, historic structures reports, materials studies, in addition to other preservation-related activities. Projects included Historic Structures Reports on 10 buildings at the National Historic Landmark sites the Ephrata Cloister and Cornwall Furnace and HSRs on the Hotel at Landis Valley Museum and the Daniel Boone Homestead. Restoration and material analysis projects were designed and built on dozens of significant historic sites including Washington's Crossing State Park, the NHL Keith House at Graeme Park, Old Economy Village, Highlands Mansion, Pennsbury Manor, Cornwall Iron Furnace, Ephrata Cloister, and Landis Valley. NPS, Inc. also directed a 5-year study of the 1830s Harmonist Garden at the National Historic Landmark Old Economy Village that involved extensive research, archaeology and landscape design.  
2003 – 2008.

Client: Pennsylvania Historical and Museum Commission (PHMC)

**Bethlehem Steel Merchant Mill #2 Annex, Bethlehem, PA**

Worked closely with the developer, Pennsylvania Historical and Museum Commission, and National Park Service to develop this former Bethlehem Steel mill building into a hub of market-rate housing and retail services in the community of South Bethlehem. 2003 – 2006.

Client: Ashley Development

**Hedge-Carpenter-Thompson Historic District, Salem, NJ**

Worked closely with the developer, New Jersey Historic Preservation Office, and National Park Service to rehabilitate this abandoned historic neighborhood in Salem County, NJ. Project development included the documentation of 76 historic buildings, a scope of work that met the Secretary of the Interior's Standards, the needs of the developer, and the tenants. 2003 – 2005.

Client: Pennrose Properties

Architect: Kitchen & Associates

**Iowa State Capitol, Des Moines, IA**

Conservation and restoration consultant for the restoration of the House and Senate chambers of the 1871-1886 Iowa State Capitol. Completed materials testing and analysis on all aspects of decorative ceilings and murals, and provided consultation and supervision during conservation. Current projects include the testing, analysis, design consultation, and assistance with specifications for the restoration of the decorative finishes of the Main Rotunda and Grand Stair. 1989 – 2008.

Client: Department of General Services, State of Iowa

Architect: RDG Bussard Dikis, Inc.

**Rayne United Methodist Church, New Orleans, LA**

Conservation consultant on problematic interior and exterior materials issues on this 1876 Gothic Revival masonry church in downtown New Orleans. Issues include masonry deterioration, water infiltration, and adhesion problems with decorative finishes on plaster and wood substrates. 2000-2004.

Client: Rayne Memorial Church

**Pennsylvania State Capitol, Harrisburg, PA.**

Partner within Perfido Weiskopf/Graves/Noble Joint Venture, the firm serving as project Professional. In charge of defining scope, preparation of restoration specifications, administration and supervision for the Department of General Services' \$20 Million exterior restoration of the Main Capitol building. Work completed includes analytical studies, specifications and supervision for conservation and restoration of exterior granite and windows, documentation and Commonwealth Statue conservation including removal and re-installation, and restoration of the main dome and ribs. Served as Consulting

Supervisory Conservator for conservation of House and Senate Chambers and other public and private offices, 1996- 2008.

Principal in charge of designing and managing the protection of the House of Representatives' and Senate Chambers. Designed and supervised assembly and disassembly of protective systems during construction of an interior scaffolding erected to provide access during ceiling restoration, 1998.

Client: Department of General Services, Commonwealth of Pennsylvania.  
Architect: Perfido Weiskopf/Graves/Noble Joint Venture, 1996-present.

Consultant for John Canning Paint and Conservation Studios, the firm serves as the Consulting Supervisory Conservator for the restoration, repair, and refinishing of the architectural woodwork in the Senate Majority Caucus Room.

Client: John Canning Paint and Conservation Studios

**University of Pennsylvania, Philadelphia, Pennsylvania.**

Consultants on numerous projects involving research, materials testing and analysis, and preservation consultation. Buildings include Furness Library, College Hall, Franklin Field, Lewis Hall, Bennett Hall, the Palestra, Houston Hall, The Law School, the Dental School, The Music School, Irvine Auditorium, Houston Hall, Logan Hall. Analytical studies, specifications and supervision included work on plaster, masonry, decorative finishes, concrete, woodwork, roofing and metals.

Client: Facilities Department  
Architect: various, 1984-2008.

**Irvine Auditorium, University of Pennsylvania, Philadelphia, PA**

Completed extensive conservation study and specifications for historic decorative finishes on Horace Trumbauer's auditorium at the University of Pennsylvania. Provided testing, analysis and specifications on historic lighting, woodwork, marble, plaster and interior and exterior masonry. Provided construction supervision of conservation and restoration work during construction.

Client: University of Pennsylvania  
Architect: Venturi, Scott Brown Associates, 1996-1999.

**Ephrata Cloister, Ephrata, PA**

Historic Structures Reports. Conducted in-depth historical and physical investigations on nine building at the National Historic Landmark Ephrata Cloister site. Completed analytical evaluations of building materials as a basis for recommendations on the short and long-term restoration of the site.

Client: Pennsylvania Historical and Museum Commission  
Architect: Marianna Thomas Architects/Perfido Weiskopf Architects Joint Venture, 1998-present.

**Lehigh University, Bethlehem, Pennsylvania.**

Research, conservation studies and preservation consultation on the Packer Chapel, University Center, Linderman Library, Taylor Gymnasium and Coppee Hall, the main buildings of the campus. Analytical studies, specifications and supervision included work on plaster, masonry, decorative finishes, concrete, woodwork, roofing and metals.

Client: Lehigh University Facilities Services  
Architect: Barry Isett, Associates, PC, 1992-1996.

**State Capitol of West Virginia, Charleston, West Virginia.**

Provided consultation and completed technical analysis on the gilding failure for the Capitol Dome. Completed coatings analysis for interior finish schemes, prepared specifications and supervised

restoration of all work. Work included plaster restoration and conservation and recreation of extensive gilding and faux finish schemes throughout the main Capitol rotunda.

Client: WV Division of Administration, General Services Division  
Architect: L.P. Perfido Architects, 1994-1997.

**The Barnes Foundation**, Marion Station, Pennsylvania.

Provided assessment, materials analysis and specifications on a nationally-significant group of buildings designed by Paul Philippe Cret to house a significant private art collection. Focus included conservation of significant exterior limestone ornamentation designed by Jacques Lipschitz, analytical testing on interior and exterior finishes and evaluation and specifications on tile, masonry, wood flooring, plaster and woodwork. Construction supervision.

Client: The Barnes Foundation  
Architect: Venturi, Scott Brown & Associates, Inc., 1993-1996

**Macomb's Dam Bridge**, New York, New York.

Conservation studies on one of New York's most historic bridges. Consultation included paint analysis on the bridge and mile long viaduct and conservation reports on various sculptures including the granite and limestone Hooper Fountain on the Manhattan side of the span and the bronze New York City Coat of Arms and Plaque surmounting the bridge. The project was awarded the NYC Art Commission's Excellence in Design Award.

Client: New York Department of Transportation  
Architect: H2L2 Architects and Planners, 1994.

**Conrad Weiser Homestead**, Womelsdorf, PA

Historic Structures Report. Conducted in-depth building investigations on the two remaining early buildings on the site, one of which was thought to be the original Conrad Weiser's home. Prepared a typology of 18<sup>th</sup> century Germanic domestic buildings in eastern and central Pennsylvania to place the Weiser buildings in the context of early Germanic building practices.

Client: Pennsylvania Historical and Museum Commission  
Architect: Marianna Thomas Architects/Perfido Weiskopf Architects Joint Venture, 1998-2000.

**Historical Society of Pennsylvania**, Philadelphia, PA

Principal in charge of comprehensive masonry conservation study as a prelude to exterior marble restoration and supervision of contractors during construction. Completed plaster and finishes analyses for interior and exterior elements.

Client: Historical Society of Pennsylvania.  
Architect: Venturi, Scott Brown & Associates, Inc., 1997-98.

**Long House Historic Structures Report**, Hope, NJ

Historic Structures Report which analyzed and evaluated the construction and development of this Moravian period building through historical research, materials analyses, and physical investigations. Developed appropriate treatment recommendations for the client to use as a basis for decision making.

Client: H.O.P.E., 1998-present.

**Historic Rittenhouse Town**, Fairmount Park, Philadelphia, Pennsylvania.

Historic Structures Reports on the 1707 Claus Rittenhouse Home and adjacent 18th century stone outbuilding. Historic research and National Landmark Nomination on the 17th, 18th and 19th century Germanic village, site of America's first paper mill and birthplace of colonial scientist David Rittenhouse. The village is one of the most important early industrial and domestic sites in the original

colonies, 1991. Historic Structures Report on 18th century so-called Abraham Rittenhouse Home within the National Historic Landmark industrial community, 1989. Research, analytical testing.

Client: Historic Rittenhouse Town, Inc., 1988-2000.

**Henry Antes House**, Montgomery County, Pennsylvania.

Historic Structures Report documenting the original configuration and the changes to the house and property. Fund raising of over \$250,000, Analytical testing, construction documents, specifications, bid process, contractor selection and construction management.

National Landmark Nomination. Home of a significant leader, master builder and the architect of many of the first buildings in Bethlehem, Pennsylvania. The house is the first building in Pennsylvania to be recognized in the vernacular architecture category as significant to the nation, 1991.

Client: Goschenhoppen Historians, Inc., 1994-2006.

**Camden United States Courthouse**, Camden, NJ

Completed analysis of historic decorative finishes (elaborate stencil designs executed in paint and aluminum and gold leaf) for Post Office Lobby and Ceremonial Courtroom within Art Deco interior spaces prior to restoration/conservation. Prepared construction documents for plaster and finishes restoration, including re-creation of decorative stenciling. Construction supervision.

Client: Keating Building Corporation  
Architect: Marianna Thomas Architects, MGA Partners, 1999.

**Diamond Street Ventures Phases 1, 2, 3**, Philadelphia Pennsylvania.

Rehabilitation/restoration, Section 106 and Tax Act consultation on a 35 building housing project.

Client: Pennrose Properties Inc.,  
Architect: Zimmers Associates, 1989-1996.

**30th Street Railroad Bridge**, Philadelphia, Pennsylvania

Materials testing, conservation report, assistance with specifications and consultation during construction on this significant Paul Cret designed bridge spanning the Schuylkill River in the heart of Philadelphia.

Client: South East Transportation Authority  
Architect: H2L2 Architects and Planners, 1995, 1996.

**Palace Theatre**, Greensburg, Pennsylvania

Paint and coatings analysis, historical research and restoration consultation on this magnificent 1926 vaudeville-era theater. The building contains exemplary faux finishes and murals that are to be restored and conserved as part of the restoration.

Client: The Westmoreland Trust  
Architect L.P. Perfido Associates, 1995-1996.

**William Trent House**, Trenton, New Jersey

Historical research and report on the history and occupation of this c1720 National Historic Landmark mansion built by one of the colonies most important individuals and occupied by three governors of the state of New Jersey. Preparation of an archaeological planning report involving overlays of landscape and site changes over significant historical periods onto base maps of the site.

Client: City of Trenton, New Jersey

Architect: Susan Maxman Architects, 1995, 1996.

**Eastern State Penitentiary**, Philadelphia, Pennsylvania.

Conservation Studies for the main hall, typical corridors, prison cells and yards for the Eastern State Penitentiary Task Force, sponsored by a grant from The Getty Foundation, 1994, 1995. Feasibility Study and Schematic Design for the Rehabilitation of the Administration Building of this National Historic Landmark and, arguably, the most important historic prison in the United States.

Client: City of Philadelphia

Architect: Venturi, Scott Brown and Associates, 1993.

**US Custom House**, Philadelphia, Pennsylvania.

Historic Structures Report update, historic finishes, metals and stone conservation studies, prepared specifications and provided restoration supervision on this 1930's Art Deco landmark government office building that in home to the Eastern Regional office of the National Park Service.

Client: General Services Administration

Architect: Ueland, Junker & McCauley, 1992-1993.

**Abraham Lincoln Hotel**, Reading, Pennsylvania.

Tax Act, Section 106 and rehabilitation consultation on one of Reading's most important Art Deco hotels.

Client: Pennrose Properties, Inc.

Architect: Muhlenberg/Greene Architects, 1991-1994.

**The Grey Cottage**, Nazareth, Pennsylvania.

Research, materials investigations and restoration consultation on the Grey Cottage Log House, the earliest surviving Moravian building in North America. The project resulted in a restoration report, specifications and the recreation of an 18th century-style side-lapped shingle roof.

Client: Moravian Historical Society, 1991, 1992.

**Milord La Chamarre Sculpture Conservation Study**, Philadelphia, Pennsylvania.

Conservation study prompted by the moving of this important Jean Dubuffet stainless steel work of art from an environmentally controlled interior location to its present 15th and Market Street location.

Client: H2L2 Architects, 1990.

**Horsham Meeting House**, Horsham, Pennsylvania.

Historic research, materials analysis and restoration consultation on the major restoration of this well preserved early 19th century Quaker Meeting House. Work involved studies and specifications on woodwork, finishes, masonry, historic lighting and roofing.

Client: Horsham Meeting

Architect: Zimmers Associates, 1990.

**Fairmount Waterworks**, Philadelphia, Pennsylvania.

Design Study for the final phase of restoration of this National Historic Engineering Landmark. The project involved research and design schemes for the recovery and restoration of the mill races and associated promenades, bridges, retaining walls and water features.

Client: City of Philadelphia, Water Department

Architect: Thomas and Newswanger, Architects, 1989.

**Founders Hall, Haverford College, Haverford, Pennsylvania.**

Restoration studies, materials analysis and consultation on the College's first building constructed in 1833. Studied, specifications and supervision included work on stone, stucco and finishes.

Client: Haverford College

Architect: H2L2 Architects, 1989.

**Old Economy Village, Ambridge, Pennsylvania.**

Research, materials investigations and analysis of an intact early 19th century National Landmark utopian community. A ten-volume Historic Structures Report and Garden Archaeology study was prepared. Prepared analytical studies on finishes, masonry, plaster and roofing.

Client: PA Historical and Museum Commission

Architect: Thomas and Newswanger Architects, 1987-1990.

**Allentown Post Office, Allentown, Pennsylvania.**

Analytical studies and specifications for masonry, bronze and aluminum features on this 1931 Art Deco Post Office, one of Allentown's finest Art Deco Buildings.

Client: General Services Administration

Architect: Wallace/Watson Architects, 1987.

**Berkeley-Dunn Mills, Martinsburg, West Virginia.**

Rehabilitation consultation on a complex of 19th century woolen mills. Tax Act Certification, materials testing and design review.

Client: Chatfield-Taylor Organization

Architect: Rust, Orling and O'Neal, 1987.

**Moravian Pottery and Tile Works, Doylestown, Pennsylvania.**

Seriated paint analysis and restoration consultation on an important Henry Mercer building.

Client: Bucks County, 1987.

**Cumberland County Court House, Cumberland County, New Jersey.**

Preservation and Restoration studies and analytical testing on this important public building.

Client: Cumberland County

Architect: Manders/Merighi Associates, 1987.

**Hopewell Furnace National Historic Site, Berks County, Pennsylvania.**

Historic Structures Report, Materials analysis and restoration consultation on an 18th century National Historic Site interpreting the manufacture of iron.

Client: Mid-Atlantic Regional Office, National Park Service

Architect: Marianna Thomas, 1987.

**Cornwall Iron Furnace, Cornwall, Pennsylvania.**

Restoration consultation and materials analysis.

Client: PA Department of General Services  
Architect: Marianna Thomas, 1986.