2015 AIA Fellowship

Nominee          John R. Bowie
Organization     John Bowie Associates
Location         Wallingford, Pennsylvania
Chapter          AIA Philadelphia

Sponsor          John A. Burns FAIA
Organization     National Parks Services

Category of Nomination
Category One - Preservation

Summary Statement
John Bowie has advanced the field of preservation through his nationally-recognized achievements in recording, restoring and interpreting historic sites and museums, and through outstanding client collaboration on sustainable resource stewardship and best management practices.

Education
University of Maryland School of Architecture, College Park MD, entered August 1974, received Bachelor of Architecture December 1979 (5.5 years total).

Licensed in: NJ (first state), PA, DE, MD, NY, IN, Washington DC, NCARB

Employment
John Bowie Associates, Historical Architects; Wallingford, PA; April 1986 to present.
Vitetta Group/Studio Four Restoration Architects; Philadelphia, PA; October 1983 to April 1986.
John M. Dickey, F.A.I.A.; Media, PA; February 1981 to October 1983.
Historic American Buildings Survey / Historic American Engineering Record; Manton, CA; June 1979 to September 1979
Historic American Buildings Survey / Historic American Engineering Record; Tahawus, NY; June 1978 to September 1978
### Nomination Signature Sheet

**Component Nomination**

Name of component organization  
AIA Philadelphia

Signature of chapter president or secretary  
[Signature]

Name of chapter president or secretary  
Antonio Fiol-Silva, FAIA, President

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**Nominated by any 10 AIA Members or any 5 Fellows in good standing:**

1. Signature/date  
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**Note:** It is the responsibility of the sponsor to notify the AIA component of a petition nomination.
Mr. John Castellana, FAIA, Chair  
2015 Jury of Fellows  
The American Institute of Architects

Dear Jury of Fellows:

John R. Bowie, AIA, is an historical architect who has produced an extraordinary body of work in a highly specialized practice that falls outside the mainstream. Existing buildings represent over half of current construction, but these projects are mostly unheralded by the profession. John’s practice, focused exclusively on historic museums and landmark buildings, exhibits the highest standards of preservation practice, as exhibited by the numerous awards he has received from a variety of organizations, many of which are from outside the architecture community. It is an honor and a privilege to bring this remarkable architect’s talents and accomplishments to your attention and to sponsor John for elevation to Fellowship in the American Institute of Architects.

John and I first worked together over thirty years ago in the Historic American Buildings Survey/Historic American Engineering Record programs of the National Park Service, which document, in measured drawings, historic architecture and engineering throughout the United States for a publically-accessible archive in the Library of Congress. John’s inquisitive mind and sharp eye allows him to unravel the mysteries and ambiguities characteristic of historic buildings—and, his delineation skills are unmatched. Pursuing his career in the private sector, John continues to produce drawings for HABS/HAER, thereby sharing his analysis and interpretation of how things fit together and work with a broad audience beyond architects, including scholars, school teachers, and the general public.

Key to the success of his preservation practice, John’s ability to read and interpret historic sites, and his passion for understanding their salient features, set him apart from other historical architects. Nowhere is this more evident than his work with historic industrial sites, where the workflow, power sources, and machinery, define the functional form of these deceptively modest but complex buildings. He brings alive and gives voice to these silent sentinels of our industrial heritage. His clients, often small organizations with limited resources, benefit from his ability to plan restoration work that can be operated and maintained with minimal intervention over time—thus sustainable and resilient—making his projects benchmarks for other architects to emulate.

John has worked on a broad range of structures, from small grist mills, to big-city train stations, to the remnant foundations of the World Trade Center. His career has quietly advanced under the radar of the profession, but nevertheless he is widely known and respected for his dedication to the buildings entrusted to his care, his meticulous attention to detail, and the quality of his finished projects.

For all of these reasons, I firmly believe that John represents the highest ideals of the profession and proudly recommend him for elevation to Fellowship.

Sincerely,

John A. Burns, FAIA, FAPT  
Chief Appeals Officer, Federal Preservation Tax Incentive Program
**SECTION 1  SUMMARY OF ACHIEVEMENTS**

**1.0  Summary Statement**

*John Bowie has advanced the field of preservation through his nationally-recognized achievements in recording, restoring and interpreting historic sites and museums, and through outstanding client collaboration on sustainable resource stewardship and best management practices.*

**Recordation**

John's career in historic preservation started while he was in college, as a student architect for the Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER) documenting the Adirondack Iron & Steel Company's ruins in Upstate New York (summer 1978), and the Battle Creek Hydroelectric System in rural Northern California (summer 1979). During these assignments, he developed the use of field sketching, physical measurement and interpretive delineation to accurately record both the accumulated architectural expression and the essential industrial processes that dictated those built forms. This indispensable foundation in authenticity holistically shaped John's approach to preservation as practice. It also launched a diverse, career-long sequence of contributions to the permanent public record of American culture through HABS/HAER. **John's interpretive drawings and architectural recordation expand and enhance the public's understanding of our cultural heritage by illustrating the inseparability of architecture and technology in early industrial buildings and sites.**

**Restoration**

John's groundwork in recording our national industrial legacy led him to restoration projects at historic sites and museums, especially industrial sites focusing on the preservation of their resources for public visitation. Working with unusual built objects, John's practice expanded to include projects involving historic building technology and archaic construction techniques across the nation. This included many rare and forgotten buildings, often in states of advanced deterioration, which contained significant objects, machines, and collections warranting preservation and interpretation to both local and national audiences. It also presented restoration scenarios that included service to a wide range of clients, from marginally-funded nonprofit organizations to state and federal agencies and other design professionals. **John's constancy as advocate for the cultural resource has been the core of his unique practice.**

**Interpretation**

Building upon his documentation and restoration work, John's project scopes expanded to enhancement of the visitor's learning experience through architecturally supported interpretation. His wide-ranging services, in support of interpretive goals, include: 1) the illustration of industrial processes within their architectural context; 2) instruction on obscure construction techniques specific to historic resources; and 3) architectural treatment of the resource to focus and manage the visitor sequence. **John's effective interpretive treatment of public sites sustains them by broadening their audiences.**

**Stewardship**

Through exemplary, comprehensive preservation services, John has advanced the stewardship of cultural resources. Throughout the project effort, John collaborates with his clients to define and implement the long-term responsibilities they have for their resources, whether they are large public landmarks with high levels of visitation, or locally-significant, modest historic sites. His practice has developed to include client counsel on complex projects impacting cultural resources where advocacy of the resource must be tempered over multi-decade schedules and diverse project participants and users.
SECTION 2 ACCOMPLISHMENTS

2.1 Significant Work: Completed Preservation Projects

Note: projects listed in Section 3 exhibits are not noted in Section 2

**NR - Listed on or Eligible for the National Register of Historic Places**

**NHL - National Historic Landmark**

**PPR ENGINE #460 - THE LINDBERGH LOCOMOTIVE**
Strasburg, PA • 2011 • 2014
Railroad Museum of Pennsylvania; Exhibit design for stationary operation of the historic steam locomotive’s drive wheels, connecting rods, valves and pistons for visitor interpretation in a museum setting.
Project Manager and Lead Preservation Architect / John Bowie Associates

**HISTORIC INTERLOCKING TOWERS & RAIL OPERATING STRUCTURES**
Strasburg, PA • 2007-2014
Amtrak; Condition assessment, comprehensive historic resource treatment planning (interlocking towers, coaling towers and sanding towers, 45 total), along Northeast Corridor, Keystone Corridor, IN and LA.
Project Manager and Lead Preservation Architect / John Bowie Associates

**BUILDING AT LOCK 31, DELAWARE & HUDSON CANAL**
Hawley vicinity, PA • 2012-2013
Wayne County Historical Society; Heavy timber structural stabilization, foundation reconstruction, masonry repairs, exterior restoration, electrical upgrades and alarm installation.
Project Manager and Lead Preservation Architect / John Bowie Associates

**WORLD TRADE CENTER**
New York, NY • 2005-2012
Port Authority of New York & New Jersey; Resource Protection Plan and construction observation of work in contact with column remnants, slurry walls, E Subway finishes, Survivor Stair and Steel in the Shape of a Cross.
Team Preservation Architect / AKRF Inc., New York, NY

**WARDEN’S HOUSE**
Mount Holly, NJ • 2011
Burlington County Department of Parks & Recreation; Exterior restoration and interior rehabilitation of historic building as part of the Burlington County Prison Museum.
Team Preservation Architect / RYEBread Architects, Mount Holly, NJ

*2011 Preservation Alliance for Greater Philadelphia Grand Jury Award*

*2011 New Jersey State Historic Preservation Award*
SECTION 2  ACCOMPLISHMENTS

2.1 Significant Work: Completed Preservation Projects

Note: projects listed in Section 3 exhibits are not noted in Section 2

**AMSTEL HOUSE AND OLD DUTCH HOUSE**
New Castle, DE • 2010-2011

New Castle Historical Society; Exterior restoration, site drainage, interior HVAC and electrical and lighting improvements and accessibility upgrades to historic house museums.

Project Manager and Lead Preservation Architect / John Bowie Associates

**THE MILL AT PHILIPSBURG MANOR**
Tarrytown, NY • 2005-2006

Historic Hudson Valley; Reconstruction of the wooden undershot water wheel, and preservation repairs to heavy timber forebay, flume, main gate and main shaft.

Project Manager and Lead Preservation Architect / John Bowie Associates

**GEORGE CATLIN HOUSE**
Scranton, PA • 2001 and 2006

Lackawanna Historical Society; Complete exterior restoration of Ludowici tile roofs, half-timber walls, decorative wood windows and doors, stained glass window at stairway and ornamental stucco finishes.

Project Manager and Lead Preservation Architect / John Bowie Associates

**THE ATHENAEUM OF PHILADELPHIA**
Philadelphia, PA • 2006

Trustees of the Athenaeum of Philadelphia; Accessibility upgrades in the Garden and first floor public and office spaces, including dedicated parking, entrance walks, doors and restrooms.

Project Manager and Lead Preservation Architect / John Bowie Associates

**MEDIA ARMORY**
Media, PA • 2003-2004

Borough of Media; Exterior and interior rehabilitation of former armory building to serve as museum on lower floor and commercial grocery (Trader Joe’s) on upper floor.

Team Preservation Architect / Linn Architects, Media, PA

2005 PA Historical & Museum Commission Outstanding Preservation Project Award
2005 Certificate of Appreciation by the Delaware County Heritage Commission
SECTION 2  ACCOMPLISHMENTS

2.1 Significant Work: Completed Preservation Projects

Note: projects listed in Section 3 exhibits are not noted in Section 2

PAULSDALE
Mount Laurel, NJ  •  2000-2004

Alice Paul Institute; Exterior restoration and interior rehabilitation of c.1800 farmhouse to 1885 period of interpretation, including reconstruction of full-wrapping porch.

Principal-in-Charge / John Bowie Associates

2005 American Association for State and Local History Award of Merit
2005 New Jersey State Historic Preservation Award

GREENHOUSE AT THE HIGHLANDS GARDENS
Fort Washington, PA  •  2002-2003

Highlands Historical Society; Exterior and interior restoration of c.1920 Lord & Burnham Greenhouse and adjacent potting shed as interpretive station within estate period garden, included reproduction of framing components and period glazing.

Principal-in-Charge / John Bowie Associates

TURNTABLE RESTORATION AND YARD RECONSTRUCTION
Strasburg, PA  •  1999-2001

Railroad Museum of Pennsylvania; Restoration of operating 100’ turntable, reconfiguration and reconstruction of the yard tracks and switches to accommodate a greater quantity of rolling stock.

Project Manager and Lead Preservation Architect / John Bowie Associates

EPHRATA CLOISTER
Ephrata, PA  •  1998-2000

Pennsylvania Historical and Museum Commission; Restoration of the hand-riven white oak siding on eleven 18th century interpreted historic museum buildings.

Project Manager and Lead Preservation Architect / John Bowie Associates

2000 Associated Builders and Contractors Award of Excellence

WILLIAM J. NEALON FEDERAL COURTHOUSE AND POST OFFICE
Scranton, PA  •  1999

U.S. General Services Administration; Exterior restoration and masonry cleaning, and link between new building and historic old building.

Team Preservation Architect / Bohlin Cywinski Jackson, Wilkes-Barre, PA

2000 U.S. General Services Administration Outstanding Preservation Project Award
SECTION 2 ACCOMPLISHMENTS

2.1 Significant Work: Completed Preservation Projects

Note: projects listed in Section 3 exhibits are not noted in Section 2

WILSON-WARNER HOUSE AND CORBIT-SHARP HOUSE
Odessa, DE • 1993-1997

Henry Francis duPont Winterthur Museum’s Historic Houses of Odessa; Exterior restorations, and structural, HVAC, electrical and lighting upgrades on interiors.

Project Manager and Lead Preservation Architect / John Bowie Associates

FEDERAL OFFICES AT STEGMAIER BUILDING
Wilkes-Barre, PA • 1995-1997

U.S. Postal Service; Exterior and interior rehabilitation of abandoned seven-story brewery complex in downtown Wilkes-Barre to become federal offices.

Team Preservation Architect / Bohlin Cywinski Jackson, Wilkes-Barre, PA

1998 Preservation Pennsylvania Initiative Award for Public/Private Partnership

12 HISTORIC BORDER CROSSINGS BETWEEN VERMONT & QUEBEC
Across Vermont • 1995

U.S. General Services Administration and U.S. Customs Service; Comprehensive historic preservation plan for all 12 border stations at rural locations (not interstate highways), constructed in the 1920s and 30s.

Team Preservation Architect / Louis Berger & Associates, East Orange, NJ

ADDITION & SEARIGHT’S TOLL HOUSES
Addison & Uniontown, PA • 1996-1997

Pennsylvania Historical & Museum Commission; Exterior and interior restoration and site upgrades, including parking and rest rooms, of small, octagonal toll houses constructed in 1830s along the National Road (U.S. Route 40).

Project Manager and Lead Preservation Architect / John Bowie Associates

1998 PA Historical & Museum Commission Outstanding Restoration Project Award

WATER WHEELS AT LONG POND IRON WORKS STATE PARK
Greenwood Lake vicinity, NJ • 1992-1995

State of New Jersey, Division of Parks & Forestry; Conservation and reconstruction of two 25’ diameter wooden undershot water wheels, hubs, shafts and bearings as an interpretive exhibit in remote, heavily reforested setting (former iron furnace site).

Project Manager and Lead Preservation Architect / John Bowie Associates
SECTION 2  ACCOMPLISHMENTS

2.1 Significant Work: Completed Preservation Projects

Note: projects listed in Section 3 exhibits are not noted in Section 2

KEYSTONE FOUNDRY
Hopewell (Bedford County), PA  •  1994

Hopewell Area Seniors Center and America’s Industrial Heritage Project; Inventory and appraisal of museum-related objects, machines and artifacts; architectural evaluation of the buildings; training seniors on collection care procedures.

Project Manager and Lead Preservation Architect / John Bowie Associates

1995 Preservation Pennsylvania Initiative Award for Historic Property Stewardship

WORTENDYKE BARN
Park Ridge, NJ  •  1992-1993

Bergen County Department of Parks & Recreation; Interior and exterior restoration of surviving 18th century Dutch barn, including restoration of heavy-timber framing, siding repairs and electrical upgrades.

Project Manager and Lead Preservation Architect / John Bowie Associates

1994 Office of New Jersey Heritage Outstanding Restoration Project Award

REGINA HALL (LIBERAL ARTS BUILDING)
Dunmore, PA  •  1991

Trustees of Marywood College (now University); Restoration of the dome, including complete repair/replacement of the original c.1915 lightweight concrete shell and copper batten-seam exterior dome cladding, cupola and gilded cross.

Team Preservation Architect / Leung Hemmler Camayd Architects, Scranton, PA

1994 International Concrete Repair Institute Award of Excellence
1992 PA Historical & Museum Commission Outstanding Special Project Award

PENNSYLVANIA’S EXTANT 221 HISTORIC COVERED BRIDGES
Across the state  •  1990-1991

PA Department of Transportation; survey, prepare comprehensive preservation plan and develop ranking system for PA DOT’s implementation of statewide covered bridge repair and upgrade program.

Team Preservation Architect / Ortega Consulting, Media, PA

1992 PA Historical & Museum Commission Outstanding Special Project Award

MILL AT ANSELMA
Chester Springs vicinity, PA  •  1986-1990

French & Pickering Creeks Conservation Trust; Exterior and interior restoration of the mill building, restoration of the mill pond, head race, overflow; head gate, water wheel, main shaft, countershafts, stones, elevators, and belt-driven machinery.

Project Manager and Lead Preservation Architect / John Bowie Associates
SECTION 2  ACCOMPLISHMENTS

2.1 Significant Work: Resource Recordation

**HABS/HAER level drawings**

<table>
<thead>
<tr>
<th>Year</th>
<th>Project Name</th>
<th>Location</th>
<th>Organization</th>
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| 2012-2014 | Aughwick Creek Concrete Bridge  
*ongoing documentation* | Mount Union vicinity, PA  •  Friends of the East Broad Top RR |
| 2012-2014 | Pogue Trestle  
*ongoing documentation* | Orbisonia vicinity, PA  •  Friends of the East Broad Top RR |
| 2009  | Coles Water Tank | Orbisonia vicinity, PA  •  Friends of the East Broad Top RR |
| 2004  | Saltillo Station | Saltillo, PA  •  Friends of the East Broad Top RR |
| 1998  | Bahr’s Grist Mill | Gabelsville, PA  •  Ressler Mill Foundation |
| 1998  | Mascot Roller Mills | Ronks, PA  •  Ressler Mill Foundation |
| 1998  | New Milford Water Pumping Station | Oradell, NJ  •  Bergen County Department of Parks & Recreation |
| 1996  | Walnut Street Bridge | Harrisburg, PA  •  Pennsylvania Department of Transportation |
| 1996  | Claus Rittenhouse Home and Outbuildings | Philadelphia (Fairmount Park), PA  •  Historic Rittenhousetown, Inc. |
| 1993  | Tredegar Iron Works | Richmond, VA  •  Valentine Museum |
| 1993  | U.S. Appraisers Stores | Baltimore, MD  •  U.S. General Services Administration |
| 1993  | John Grass Wood Turning Company | Philadelphia, PA  •  The Wood Turning Center Museum |
| 1992  | The Saw Mill at Double Trouble State Park | Toms River vicinity, NJ  •  State of New Jersey, Department of Parks & Forestry |
| 1991  | Edgewood Plantation | Clover, VA  •  Old Dominion Electric Cooperative |
| 1991  | Chaille Block Stores | Miami, FL  •  U.S. Federal Bureau of Prisons |
| 1991  | Matthias Harmon House | Glen Burnie vicinity, MD  •  Maryland Department of Transportation |
| 1990  | Fort Hill Plantation | Clover, VA  •  Old Dominion Electric Cooperative |
| 1990  | The Highlands Mansion and Estate Structures | Fort Washington, PA  •  The Highlands Historical Society |
| 1989  | Hopper-Van Riper Grist Mill | Paramus, NJ  •  Bergen County Department of Parks & Recreation |
SECTION 2  ACHIEVEMENTS

2.1 Significant Work: Resource Recordation
HABS/HAER level drawings

1989  Housing Units at Fort Buchanan
San Juan, PR • U.S. Federal Bureau of Prisons and PR Historic Preservation Office

1989  Delaware & Raritan Canal Lift Lock 6-A
Trenton, NJ • New Jersey Department of Transportation

1989  Nassawango Iron Furnace
Snow Hill vicinity, MD • Furnacetown, Inc.

1988  Submarine Escape Training Tank
New London, CT • U.S. Naval Facilities Engineering Command

1988  Alpina and Lewisburg Iron Furnaces
Watertown vicinity (Fort Drum), NY • U.S. Army Environmental Services

1988  Telegram Building
Harrisburg, PA • City of Harrisburg

1988  Woods Grist Mill
Watertown vicinity (Fort Drum), NY • U.S. Army Environmental Services

1987  John A. Roebling’s Sons Co./American Steel & Wire Company
Trenton, NJ • For the Historic American Engineering Record

1987  Mill at Anselma
Chester Springs, PA • French & Pickering Creeks Conservation Trust

1987  6 historic bridges across NY State (special consultant to the HAER team)
Across New York • New York State Department of Transportation

1987  Mount Pleasant Grist Mill
Saint Peters vicinity, PA • Mount Pleasant Mills Foundation

1986  Zanja No. 3 (part of the original city water distribution system)
Los Angeles, CA • U.S. Federal Bureau of Prisons

1986  Kay Moor Coal Mine (special consultant to the HAER team)
New River Gorge, WV • HABS/HAER and NPS New River Gorge National River

1984  DL&W RR Grain Trestle
Jersey City, NJ • City of Jersey City

1984  Dorrance Colliery
Wilkes-Barre, PA • Wyoming Historical & Geological Society

1983  Betz’s Grist Mill
Lynnville vicinity, PA • Ressler Mill Foundation

1980  Hydroelectric Plants at Dams 4 & 5 and Lake Lynn
Potomac River and Cheat River, WV • As an intern architect with HABS/HAER

1979  Battle Creek Hydroelectric System
Red Bluff vicinity, CA • As a student architect with HABS/HAER

1978  Adirondack Iron & Steel Company
Tahawus, NY • As a student architect with HABS/HAER
SECTION 2  ACCOMPLISHMENTS

2.1 Significant Work: Historic Structures Reports

2005 Building at Lock 31 of the Delaware & Hudson Canal
Hawley vicinity • Wayne County Historical Society

*Led to the building’s stabilization and exterior restoration and the creation of the Delaware & Hudson Canal Greenway, Lock 31 Park.*

2003 David Wills House
Gettysburg, PA • National Park Service, Gettysburg National Military Park

*In collaboration with ICON architecture, inc., (Boston, MA); led to restoration and rehabilitation of the building as interpreted historical museum.*

2001 Hummelbaugh House
Gettysburg, PA • National Park Service, Gettysburg National Military Park

*In collaboration with ICON architecture, inc., (Boston, MA); led to various National Park Service interior restoration projects.*

2001 Eisenhower Barn
Gettysburg, PA • National Park Service, Gettysburg National Military Park

*In collaboration with ICON architecture, inc., (Boston, MA); led to various National Park Service exterior restoration projects.*

1999 Demuth Snuff Mill & Cigar Factory
Lancaster, PA • Demuth Foundation

*Led to a stabilization plan for the building and interpretive planning within the Demuth Museum—preserving the art of Charles Demuth, pioneering leader of the American Modernist movement.*

1999 Paulsdale, National Historic Landmark
Mt. Laurel, NJ • Alice Paul Centennial Foundation

*Led to exterior restoration and interior rehabilitation for public interpretation of the farmhouse—birthplace of Alice Paul, American suffragist and author of the Equal Rights Amendment (1923).*

1999 The Highlands Greenhouse
Fort Washington, PA • The Highlands Historical Society

*Led to exterior and interior restoration of c.1920 greenhouse and attached potting shed within estate garden, enhancing public interpretation of estate life and period utilitarian architecture.*

1999 The Highlands Ice House
Fort Washington, PA • The Highlands Historical Society

*Led to exterior restoration and public interpretation of original 1802 estate ice house concurrent with its subsequent period of use (c.1920) to support domestic water service within the mansion.*

1998 New Milford Plant of the Hackensack Water Company
Oradell, NJ • Bergen County Department of Parks & Recreation

*Led to National Register listing (2001) and further plans to adaptively reuse and interpret the site relative to its role in the development of modern water purification and pumping technology.*
SECTION 2  ACCOMPLISHMENTS

2.1 Significant Work: Historic Structures Reports

1995  Ben Schroeder Saddletree Factory Complex
Madison, IN • Historic Madison Foundation, Inc.

*In collaboration with RATIO Architects (Indianapolis, IN); led to the restoration of the buildings as an operating industrial museum.*

1995  Lackawanna Silk Mill (Steamtown National Historic Site)
Scranton, PA • Lackawanna Heritage Valley Authority

*In collaboration with Leung Hemmler Camayd (Scranton, PA); led to the exterior restoration and interior rehabilitation of the mill as a trolley museum and visitors center.*

1992  The Highlands Barn & Gardener’s Cottage
Fort Washington, PA • The Highlands Historical Society

*Led to exterior restorations and interior rehabilitations of three-story stone barn (c.1800) and cottage (c.1844) for public interpretation of 19th-century estate life.*

1991  Taylor-Evans House
Springfield (Delaware County), PA • Township of Springfield

*Led to exterior restorations and interior rehabilitations of attached, late-18th century homestead and mid-19th century farmhouse within township-administered public open space.*

1991  Chesapeake & Ohio Canal Culvert 235
Cumberland vicinity, MD • U.S. Federal Bureau of Prisons and National Park Service

*Investigated reuse of historic canal culvert (within the C & O Canal National Historical Park) for storm water management of an adjacent (proposed) correctional facility site.*

1990  The Highlands Mansion
Fort Washington, PA • The Highlands Historical Society

*Led to exterior and interior restoration (of public spaces) and rehabilitation (of private spaces) for staff operational support of mansion and grounds.*

1990  The Oil House at the DL&W Yards (Steamtown National Historic Site)
Scranton, PA • National Park Service

*In collaboration with Leung Hemmler Camayd (Scranton, PA); led to exterior stabilization, interior restoration and interpretation.*

1989  Hopper-Van Riper Grist Mill
Paramus, NJ • Bergen County Department of Parks & Recreation

*Mill (c.1832) lost to fire on December 23, 1988 during preparation of HSR and HAER drawings; these documents became a historical narrative of the building, its history and operation.*

1989  Henry Spangler Farmhouse
Gettysburg, PA • National Park Service, Gettysburg National Military Park

*In collaboration with John M. Dickey, FAIA and Ortega Consulting; led to exterior restoration and interior rehabilitation.*
SECTION 2  ACCOMPLISHMENTS

2.1 Significant Work: Other Preservation Documents

2008  Condition Assessment and Recommendations Report  
Amstel House and Old Dutch House  
New Castle, DE • New Castle Historical Society  

*Informed subsequent exterior and interior restoration projects of two furnished and interpreted, 18th-century historic house museums.*

2007  Historic Building Master Plan  
Macculloch Hall  
Morristown, NJ • Trustees of Macculloch Hall  

*Facilitated plans for alternative space uses within the furnished and interpreted, early-20 century historic house museum.*

2007  Condition Assessment and Rehabilitation Plan  
Hangars 2 and 3 at Ladd Field  
Fort Wainwright, Fairbanks, AK • U. S. Army Environmental Center  

*In collaboration with The Louis Berger Group, Inc., (Richmond, VA); informed decisions about reusing two WW-II-era hangers (National Historic Landmarks) versus constructing new.*

2007  Condition Assessment and Recommendations Report  
Mill Grove (home of naturalist and painter J. J. Audubon)  
Audubon, PA • Pew Charitable Trust and Audubon Society  

*Provided scope of work and cost estimate for large grant proposal to support planned adaptive reuse of 18th century historic house museum for galleries, exhibition spaces and offices.*

2006  Condition Assessment and Recommendations Report  
• Samuel Powel House - Philadelphia (Society Hill), PA  
• Grumblethorpe - Philadelphia (Germantown), PA  
• Physick-Keith House - Philadelphia (Society Hill), PA  
• Waynesborough - Paoli, PA  
Philadelphia vicinity, PA • Philadelphia Society for the Preservation of Landmarks  

*Provided prioritization for short-term and long-term repairs and upgrades to all four historic house museums as a collective group (all under single management by the Society).*

2005  Condition Assessment and Recommendations Report  
John Grass Wood Turning Shop  
Philadelphia (Old City), PA • Pew Charitable Trust  


2004  Condition Assessment and Recommendations Report  
The Philadelphia Contributionship  
Philadelphia (Society Hill), PA • The Philadelphia Contributionship Companies  

*Prioritized repairs, upgrades and maintenance of an 18th century Federal-style mansion used as offices for one of America’s oldest insurance companies within city historic district.*
2.1 Significant Work: Other Preservation Documents

2004
Analysis of Existing Conditions & Facilities Plan
Service Wing at Stenton
Philadelphia (Germantown), PA • National Society of the Colonial Dames of America
Facilitated plans for alternative space uses and proposed new construction to accommodate visitors at a furnished, early 18th-century Georgian mansion museum.

2004
Condition Assessment and Recommendations Report
Iron Hill Museum
Newark, DE • Delaware Academy of Science
Informed exterior and interior restoration projects of modest 1920 DuPont school as an historic museum interpreting segregated education in rural New Castle County.

2004
Condition Assessment and Recommendations Report
Sunny Side Farm House
Mount Laurel, NJ • Township of Mount Laurel
Informed Mount Laurel Township regarding property significance and ongoing preservation of the house; precipitated subsequent study for site use incorporating organic farming.

2003
Condition Assessment and Recommendations Report
Thompson-Neely Grist Mill
Washington Crossing Historical Park, PA • The Goodfellow Fund
Investigated reconstruction of the dam, head race, water wheel, tail race and various architectural upgrades to support mill operation as interpreted feature within existing historic park.

2003
Condition Assessment and Recommendations Report
Mount Holly Library and Lyceum
Mount Holly, NJ • Trustees of the Mount Holly Library
Provided prioritization for short-term and long-term repairs and upgrades for mid-19th century mansion (previously converted into local branch library) to continue its service as a library.

2002
Condition Assessment and Recommendations Report
Barnstormers Theater
Ridley Park, PA • Trustees of the Barnstormers Theater
Established short-term and long-term repairs and upgrades to an early-20th century Arts-&-Crafts style community theatre.

2002
Condition Assessment and Recommendations Report
Mule Barn & Scale House
Catasauqua, PA • Historic Catasauqua Preservation Association
Identified prioritized treatments for the restoration and visitor interpretation of two early-19th century, wood-frame canal buildings along the Lehigh Canal.
SECTION 2  ACCOMPLISHMENTS

2.1 Significant Work: Other Preservation Documents

2001  Master Plan
Cloister Lower Mill
Ephrata, PA  •  Wenger Mill Foundation

_Examined opportunities to create public visitation and implement repairs and upgrades at a three-story, stone grist mill adjacent to the Ephrata Cloister (National Historic Landmark)._  

1999  Condition Assessment and Recommendations Report
Germantown Mennonite Meeting House
Philadelphia (Germantown), PA  •  Germantown Mennonite Historical Trust

_Identified short-term and long-term repairs and upgrades for mid-19th century stone meeting house in active use for weekly worship and also open for public interpretation._  

1997  Condition Assessment and Recommendations Report
Cambria (now Bethlehem) Iron & Steel Works
Johnstown, PA  •  Southwestern Pennsylvania Heritage Development Corporation

_Provided recommendations for repairs to four, late-19th century brick industrial buildings (steel production) which were under consideration for adaptive reuse by the National Park Service._

1994  Preservation and Interpretation Plan
Scranton Iron Furnaces
Scranton, PA  •  Pennsylvania Historical and Museum Commission

_In collaboration with Lane, Frenchman & Associates and Leung, Hemmler Camayd Architects, plan led to preservation and interpretation projects at public levels of the four stone furnaces._

1994  Rehabilitation Feasibility Study
R.O. Allen House
Bryan, TX  •  U.S. Federal Bureau of Prisons

_Provided recommendations and possible reuse schemes for a late-19th century house adjacent to an expanding federal correctional institution._

1993  Condition Assessment and Recommendations Report
Seashore Trolley Museum
Kennebunkport, ME  •  Trustees of the Seashore Trolley Museum

_Assessment of 10 museum structures relative to condition and ability of each to accommodate visitors; identification of rolling stock repairs and environmental concerns for trolley storage._

1987  Condition Assessment and Recommendations Report
Fort Tompkins
Staten Island, NY  •  U.S. Naval Facilities Engineering Command

_Provided prioritization for short-term and long-term repairs and upgrades of late-19th century Richardsonian Romanesque downtown courthouse._
SECTION 2  ACCOMPLISHMENTS

2.2  Awards, Honors and Recognition

NATIONAL

2005  American Association for State and Local History Award of Merit
Rehabilitation of Paulsdale, Mount Laurel, NJ

2005  American Association for State and Local History Commendation Award
Buggy Factory at the Mifflinburg Buggy Museum, Mifflinburg, PA

2004  National Trust for Historic Preservation Honor Award
Ben Schroeder Saddletree Factory Complex, Madison, IN

2003  American Association for State and Local History Award of Merit
Ben Schroeder Saddletree Factory Complex, Madison, IN

2003  American Association for State and Local History Award of Merit
Morgan Log House, Kulpsville vicinity, PA

2002  Exceptional Transportation Enhancement Project (from Indiana DOT & FHWA)
Ben Schroeder Saddletree Factory Complex, Madison, IN

2000  United States General Services Administration Outstanding Preservation Project Award
William J. Nealon Federal Courthouse and Post Office, Scranton, PA

1993  American Association for State and Local History Commendation Award
Hope Lodge, Fort Washington, PA

STATE and LOCAL

2011  AIA Pennsylvania Citizen Architect Award for service to the Commonwealth as Vice Chairman of
the Capitol Preservation Committee under the appointments of Governors Ridge (1995), Schweiker

2011  Preservation Alliance of Greater Philadelphia Grand Jury Award
Warden's House at the Burlington County Prison Museum, Mount Holly, NJ

2011  New Jersey State Historic Preservation Award from the New Jersey Historic Sites Council
Warden's House at the Burlington County Prison Museum, Mount Holly, NJ

2011  Preservation Alliance of Greater Philadelphia Grand Jury Award
Folcroft and Morton Train Stations, Folcroft and Morton, Delaware County, PA

2005  New Jersey State Historic Preservation Award from the New Jersey Historic Sites Council
Rehabilitation of Paulsdale, NHL, Mount Laurel, NJ

2005  Pennsylvania Historical and Museum Commission Outstanding Preservation Project Award
Buggy Factory at the Mifflinburg Buggy Museum, Mifflinburg, PA

2005  Pennsylvania Historical and Museum Commission Outstanding Preservation Project Award
Media Armory, Media, PA

2005  Certificate of Appreciation by the Delaware County Heritage Commission
Media Armory, Media, PA

2002  Indiana Outstanding Preservation Award from the Indiana Department of Natural
Resources, Division of Historic Preservation and Archaeology
Ben Schroeder Saddletree Factory Complex, Madison, IN

2015  Fellowship Nomination | John R. Bowie, AIA

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### Accomplishments

#### 2.2 Awards, Honors and Recognition

<table>
<thead>
<tr>
<th>Year</th>
<th>Award Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>S.K. Stevens Stewardship Award from Pennsylvania Federation of Historic Sites and Museums</td>
<td>Morgan Log House, Kulpsville vicinity, PA</td>
</tr>
<tr>
<td>2003</td>
<td>Outstanding Project Award from Pennsylvania Federation of Historic Sites and Museums</td>
<td>Morgan Log House, Kulpsville vicinity, PA</td>
</tr>
<tr>
<td>2000</td>
<td>Associated Builders and Contractors Award of Excellence</td>
<td>Ephrata Cloister, Ephrata, PA</td>
</tr>
<tr>
<td>1998</td>
<td>Preservation Pennsylvania Preservation Initiative Award for Public/Private Partnership</td>
<td>Federal Offices at Stegmaier Building (formerly Stegmaier Brewery), Wilkes-Barre, PA</td>
</tr>
<tr>
<td>1998</td>
<td>Pennsylvania Historical and Museum Commission Outstanding Restoration Project Award</td>
<td>Addison &amp; Searight’s Toll Houses along the National Road, Addison and Uniontown, PA</td>
</tr>
<tr>
<td>1997</td>
<td>Delaware County Heritage Commission Historic Preservation Merit Award</td>
<td>Taylor-Evans House, Springfield (Delaware County), PA</td>
</tr>
<tr>
<td>1997</td>
<td>Leedom B. Morrison Award of the Delaware County Heritage Preservation Commission</td>
<td>Old Chester Courthouse, Chester (Delaware County), PA</td>
</tr>
<tr>
<td>1995</td>
<td>Preservation Pennsylvania Initiative Award for Historic Property Stewardship</td>
<td>Keystone Foundry, Hopewell (Bedford County), PA</td>
</tr>
<tr>
<td>1995</td>
<td>Pennsylvania Historical and Museum Commission Historic Preservation Commendation Award</td>
<td>Queen Lane Water Pumping Station, Philadelphia (East Oak Lane), PA</td>
</tr>
<tr>
<td>1994</td>
<td>Office of New Jersey Heritage Outstanding Restoration Project Award</td>
<td>Wortendyke Barn, Park Ridge, NJ</td>
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<tr>
<td>1994</td>
<td>Pennsylvania Historical and Museum Commission Outstanding Restoration Project Award</td>
<td>Peace Church, Camp Hill, PA</td>
</tr>
<tr>
<td>1994</td>
<td>International Concrete Repair Institute Award of Excellence</td>
<td>Regina Hall (Liberal Arts Building), Marywood College (now University), Dunmore, PA</td>
</tr>
<tr>
<td>1992</td>
<td>Pennsylvania Historical and Museum Commission Outstanding Restoration Project Award</td>
<td>Regina Hall (Liberal Arts Building), Marywood College (now University), Dunmore, PA</td>
</tr>
<tr>
<td>1993</td>
<td>Pennsylvania Historical and Museum Commission Outstanding Restoration Project Award</td>
<td>Warehouse Building at Old Economy Village, Ambridge, PA</td>
</tr>
<tr>
<td>1992</td>
<td>Pennsylvania Historical and Museum Commission Outstanding Special Project Award</td>
<td>Pennsylvania’s Extant 221 historic Covered Bridges</td>
</tr>
</tbody>
</table>
2.3 Publications and Lectures

Publications

Broadcast television interviews with John Bowie on the repair and restoration of the Main Hall and Old Train Concourse ceilings at Washington Union Station:

- WUSA Channel 2 (CBS)
- WRC Channel 4 (NBC)
- WTTG Channel 5 (Fox)
- WJLA Channel 7 (ABC)

PreservationNation (Blog of the National Trust for Historic Preservation)
National Journal (Washington DC’s local business paper)
DCist (local on-line newspaper)
ArchitectMagazine.com (the on-line magazine of the AIA)

Publications by John R. Bowie

February - April, 2014


2000 Measured Drawings of Betz’s Mill and Bahr’s Mill Water Wheel, the Ressler Mill Foundation Heritage Series, Volume IV

2000 Measured Drawings of Mascot Roller Mills, the Ressler Mill Foundation Heritage Series, Volume V


Publications which reference or include work by John R. Bowie


2002 “Capping off Major Historical Makeover”, by Kate Campbell, Philadelphia Inquirer, September 8, page K-1.


## 2.3 Publications and Lectures

### Lectures

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Location/Context</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 2014</td>
<td>“Seismic, structural and historical aspects of the post-earthquake repairs and restoration efforts at Union Station”</td>
<td>DC Chapter of the Association for Preservation Technology International</td>
</tr>
<tr>
<td>June 2009</td>
<td>“HAER Documentation of the Coles Water Tank &amp; the Saltillo Station of the East Broad Top RR”</td>
<td>Society for Industrial Archeology National Conference in Pittsburgh</td>
</tr>
<tr>
<td>May 2008</td>
<td>“Caring for Your Old House”</td>
<td>Historic Building Symposium of the Peter Wentz Farmstead, Worcester, Pennsylvania</td>
</tr>
<tr>
<td>June 2004</td>
<td>“Historic Mills as Museums: Practical Considerations on their Presentation to the Public”</td>
<td>Place, Memory &amp; Time: Celebrating 300 Years of Milling at the Newlin Grist Mill Conference</td>
</tr>
<tr>
<td>September 2003</td>
<td>“Restoration Plans at the Fairmount Water Works”</td>
<td>Society for the Preservation of Old Mills National Conference in Monmouth County, New Jersey</td>
</tr>
<tr>
<td>October 2000</td>
<td>“The ADA Ten Years Later: Where are we?”</td>
<td>Mid-Atlantic Association of Museums Conference in Washington, D.C.</td>
</tr>
<tr>
<td>April 1997</td>
<td>“Preserving our Sense of Place: Providing Physical and Programmatic Accessibility without Compromising Integrity”</td>
<td>Pennsylvania Conference on Tourism in Harrisburg, Pennsylvania</td>
</tr>
<tr>
<td>November 1997</td>
<td>“Fire and Security Systems in Historic Sites and Museums”</td>
<td>Rural History Cooperative Annual Meeting in Fort Washington, Pennsylvania</td>
</tr>
<tr>
<td>January 1997</td>
<td>“Proposed Reconstruction of the Undershot Water Wheel at the Fairmount Water Works”</td>
<td>Fairmount Water Works Interpretive Center Winter Program</td>
</tr>
<tr>
<td>March 1996</td>
<td>“Private Parts, A Brief History of Domestic Plumbing in America”</td>
<td>Sixth Annual Cliveden Institute Symposium in Philadelphia</td>
</tr>
<tr>
<td>May 1993</td>
<td>“History and Preservation Challenges at the John Grass Wood Turning Shop”</td>
<td>World Wood Turning Conference at the Hagley Museum in Wilmington, Delaware</td>
</tr>
<tr>
<td>June 1984</td>
<td>“The HAER Recording Project: Interdisciplinary Documentation of Historic Industrial Sites”</td>
<td>Society for Industrial Archeology National Conference in Boston, Massachusetts</td>
</tr>
</tbody>
</table>
SECTION 3 EXHIBITS

3.0 Exhibit List

Exhibit 3.1 Washington Union Station
Repair and restoration of Historic Monumental Spaces
Washington, DC
Phase 2: 2014
Phase 1: 2013

Exhibit 3.2 Mifflinburg Buggy Museum
Restoration to operating condition as historic industrial museum
Mifflinburg, Pennsylvania
Repository restoration: 2014
Buggy Factory restoration: 2004

Exhibit 3.3 Bertolet Saw Mill at the Daniel Boone Homestead
Restoration to operating condition as historic industrial museum
Birdsboro vicinity, Pennsylvania
Project 2: 2013
Project 1: 1993

Exhibit 3.4 36 Years of HABS/HAER Documentation
Contribution to the permanent public record of American Culture
Multiple locations across the nation
Selected projects from 1980-2009

Exhibit 3.5 Morgan Log House
Preservation Projects, Resource Stewardship
Kulpsville, Pennsylvania
2007

Exhibit 3.6 Ben Schroeder Saddletree Factory Complex
Restoration to operating condition as historic industrial museum
Madison, Indiana
Residence: 2003
Woodworking Shop: 2002
Bench Shop: 2001

Exhibit 3.7 Hope Lodge
Interior Paint Restoration - Comparative Architectural Interpretation
Fort Washington, Pennsylvania
1993

Except where noted, all photographs in Section 3 Exhibits are by John Bowie Associates
Washington Union Station

Repair and restoration of historic monumental spaces

**Building History**

Washington D.C.’s Union Station is one of the nation’s most recognized and heavily used landmarks. Daniel Burnham designed the station in the classic Beaux Arts style; it opened in 1908. Its coffered, gold-leafed, vaulted Main Hall ceiling soars 96 feet above the floor, making it one of the nation's largest historical public spaces.

By the 1960s, the station had fallen into serious decline; a 1970s effort to transform it into a national visitors’ center was unsuccessful. In the 1980s, the station’s exterior and primary interior spaces were restored under the direction of the Union Station Redevelopment Corporation (USRC) and the remaining spaces were rehabilitated into highly successful retail shops and restaurants. At present, over 100,000 persons pass through Union Station every day.

On August 23, 2011, a 5.8-magnitude earthquake shook the station, damaging the ornamental plaster ceilings in the Main Hall and Old Train Concourse. This event led USRC to undertake a five-phase, multi-year project to repair and restore the building’s monumental interior spaces and building systems. At present, the first two phases are complete.

**Project Description**

John’s post-earthquake investigation revealed that 40% of the ornamental plaster support systems for the ceilings were irreparably damaged; 70% of the coffers were cracked or broken. The ongoing restoration utilizes an innovatively-designed rolling scaffold system that provides full access for structural reinforcement, plaster repairs and gilding, while permitting complete use of the Main Hall and Concourse spaces by passengers, visitors and patrons of the commercial spaces. The structural reinforcement design employs a steel grillage, installed onto the back side of the ceiling that mechanically ties the decorative plaster coffers to the steel using custom-designed clevis pins, wire ties and washers that reinforce the coffers to resist seismic forces. Cracks are repaired and failed plaster elements replaced in-kind. A new HVAC distribution system is being discreetly and securely integrated into the historic coffers and steel frame. The entire ceiling is being re-gilded to fully preserve Burnham’s ethereal barrel vault. In 2013, the restoration of the first bay (Phase 1) was completed and the scaffold system relocated into the second bay for Phase 2. In mid-2014 the second bay was completed; the work is currently in the third bay (Phase 3).

**Project Significance**

The cultural and historical significance of Union Station far exceeds its classical aesthetic ethos considered befitting, by the previous century, for a capital city’s proud monument to transportation. The station has observed and supported a nation in transit, in a way few civic buildings can parallel. Its architecture settles a yet unfolding montage of American history. Ongoing stewardship of the station calls for the highest preservation standards. John’s careful investigation, research, repair and restoration work includes balancing the demands of invasive construction against the never-closed program of Union Station as national transportation hub, commercial center and tourist destination. Discreetly reinforced to meet present-day seismic requirements, Union Station continues its second century serving the needs of modern transportation without sacrifice of its own rich heritage.

I have personal knowledge that the Nominee was largely responsible for design of the project listed above:

Beverley L. Swain-Staley, President and CEO
Union Station Redevelopment Corporation
SECTION 3  EXHIBITS

3.1  Washington Union Station
Repair and restoration of historic monumental spaces

1. Crack repair in Main Hall octagonal coffer
2. Scoring fluting in cast plaster panel between coffers
3. Installing clevis pin, washer and wire tie into eggs and darts
4. Main Hall prior to 2011 earthquake
5. Priming the ceiling
6. Painting the ceiling
7. Gilding the coffers
8. Detail of gilding application
9. Completed ceiling restoration, including HVAC diffusers, 2014

Photographs #4, #5, #6 and #9 by Carol M. Highsmith
SECTION 3  EXHIBITS

3.1 Washington Union Station
Repair and restoration of historic monumental spaces

1. Broken Main Hall cross vault coffer
2. Sample of new egg & dart molding alongside existing
3. Setting newly cast cross vault coffer elements in place
4. Drawing showing extent of plaster damage and areas of repair
5. Existing coffer support system before repairs
6. Horizontal steel cross-furring installed onto the attic framing
7. Vertical hangers installed connecting coffers with new cross-furring
8. Salvaged cross vault coffer plaster elements used as molds for new castings
9. Main Hall Bays 1 and 2 complete, and showing rolling scaffolding positioned in Bay 3, 2014
**SECTION 3 EXHIBITS**

### 3.2 Mifflinburg Buggy Museum

*Restoration to operating condition as historic industrial museum*

**LOCATION**
Mifflinburg, PA

**ORIGINAL ARCHITECT**
N/A

**ARCHITECT OF RECORD**
John Bowie Associates

**COMPLETION DATES**
- Repository restoration: 2014
- Buggy Factory restoration: 2004

**ROLE OF NOMINEE**
Field investigation, drawings and specifications, and oversee both restoration projects, including making the machinery operational for demonstration purposes

**AWARDS**
- 2005 American Association for State and Local History Commendation Award
- 2005 Penna. Historical and Museum Commission Outstanding Preservation Award

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**Building History**
Throughout the late-19th and early-20th centuries, the small, rural borough of Mifflinburg was a regional center for the production of high-quality buggies, carriages and sleighs. William Heiss’s business, with its wood-frame buggy factory (constructed 1889) and separate repository (buggy showroom, constructed 1895), was among the town’s finest. After Heiss’s death in 1931, the business closed, abandoning 40 years of buggy-making equipment within the factory. In 1978, the Mifflinburg Buggy Museum Association was formed to celebrate the town’s unique buggy-making heritage. The buildings were cleaned, modestly repaired, and opened for public visitation. In 1979, the property was listed onto the National Register of Historic Places. Grants awarded in 2002 and in 2012 supported substantial restoration to the buildings and associated interpretive enhancements to improve the museum experience.

**Project Description**

**Buggy Factory:** John structurally stabilized the deteriorated wood-framing which lacked a proper foundation and consequently leaned to the side and bulged at the second floor. Stone foundations were underpinned and repaired, and rotted heavy timber wood sills were replaced. Deteriorated, unfinished, exterior wood siding boards were repaired and replaced to match while preserving irreplaceable interior wallpapers and finishes. Wood and steel braces were discreetly added to the walls, ceilings and roof to prevent further racking and meet visitor live-loading requirements. The building’s structure was stabilized in place, and the line shafts and equipment were repaired and reset, including the gasoline-powered engine (which powered the line shaft), the table saw, spoke lathe, hub boring machine and hand-operated drill press. The knob & tube wiring and lighting were also restored to return the interior spaces to their illumination levels when the Heiss family operated the factory.

**Repository:** John restored the two-story, wood-frame building, which was built on a stone foundation and set into the slope of the mountain. The stone foundation, heavy timber wood sills, vertical board siding and standing seam roof were extensively restored, as were the knob & tube wiring and lighting. John also repaired the attic summer beam by joining a new parallam beam on top of the original, which was inadequately-sized and badly deflected.

**Project Significance**
The machines and processes employed by skilled buggy tradesmen have nearly vanished. These preservation and restoration projects expand the context for the study, comprehensive interpretation and enriched visitor enjoyment of a rare, surviving example of America’s early industrial heritage. Within the setting of modest vernacular buildings, the technology and story of personal transportation is preserved.

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1. Buggy Factory - 2014
2. Repository - 2014

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*I have personal knowledge that the Nominee was largely responsible for design of the project listed above:*

Bronwen A. Sanders, Executive Director
Mifflinburg Buggy Museum
SECTION 3  EXHIBITS

3.2  Mifflinburg Buggy Museum - Buggy Factory

Restoration to operating condition as historic industrial museum

1. South elevation, c.1892 to c.1908
2. South elevation, 2014
3. Exhibit: wheel components
4. Original wall finishes
5. Restored first floor workshop
6. Underpinning stone foundation
7. Bracing exterior walls
8. Restored work bench
9. Restored blacksmith’s hearth
SECTION 3  EXHIBITS

3.2 Mifflinburg Buggy Museum - Repository Building
Restoration to operating condition as historic industrial museum

1. North elevation, 1978
2. North elevation, 2014
3. Restored knob & tube wiring
4. Matching mortar samples
5. Restored buggy exhibit
6. Drilling rod positions
7. Epoxy rod joining of parallam
8. Repairing and replacing siding
9. Restored buggy showroom
10. Spliced joint at rotted sill
11. Steel reinforcement of trusses
SECTION 3   EXHIBITS

3.3  Bertolet Saw Mill at the Daniel Boone Homestead

Restoration to operating condition as historic industrial museum

LOCATION
Birdsboro vicinity, PA

ORIGINAL ARCHITECT
N/A

ARCHITECT OF RECORD
John Bowie Associates

COMPLETION DATES
Project 2: 2013
Project 1: 1993

ROLE OF NOMINEE
Field investigation, drawings and specifications, oversee both restoration projects, making the saw mill machinery operational for demonstration purposes

Building History

The Bertolet Saw Mill (c.1760s) is a rare surviving example of an early American “up and down” sawmill. An up-and-down saw mill utilizes a wooden sash with the saw blade affixed to its top and bottom rails. The sash assembly moves vertically, riding in sash guides, much like a double-hung window. Each time the saw sash rises and falls, a series of ratchets and pawls advances the carriage holding the log, feeding it into the saw blade for the next stroke. The entire assembly is powered by a water wheel which simultaneously drives the sash and advances the log carriage.

The mill was threatened with demolition in the late 1960s. All of its equipment and the principal building support elements were relocated to the Daniel Boone Homestead (public historic site) in 1972 by John M. Dickey, FAIA. It was placed on a new foundation adjacent to an existing pond and dam that provided water power. Difficulties in the hydraulics for the relocated mill caused it to only operate for only one season, and by 1974, it was abandoned.

Project Description

In 1993, John Bowie investigated and corrected the hydro system for the mill, reconstructed the rotted water wheel, installed a new stainless steel head gate assembly and deepened the tail race. The saw sashes and guides were cleaned and adjusted along with the carriage advancement assembly and the carriage return components. From 1993 until 2012, the saw mill was operated by park staff and volunteers, using water power exclusively.

By 2012, many of the primary framing wood sills had rotted, causing the mill to list and the saw sash to bind against the guides. John raised the mill above its 1972 elevation to protect the sills from further back splash damage, which had resulted from frequent stops and starts of the mill for visitor demonstration. The rotted sills were replaced and operational components repaired or replaced, including components of the sash guides, and the frame that supports the sash guides. Today, the saw mill continues to operate as it did for more than two centuries.

Project Significance

Preservation and restoration of the operational Bertolet Saw Mill allows this museum site to accurately demonstrate how lumber was cut in America from the earliest times of European settlement until the mid-19th century. Visitors to this National Register-listed property, one of only three operating up and down sawmill museums in the nation, enjoy a dynamic learning experience which includes the unique sights, sounds and smells of a water-powered up-and-down saw mill. They witness the application of technology to harness water power and the transformation of pure energy into lumber production. They also learn about the self-sufficiency of early American settlement – a major interpretive theme of the museum. Authentic restoration of this mill preserves the accurate role of its candid architecture to, first and foremost, serve and protect the equipment and the sawyer.

I have personal knowledge that the Nominee was largely responsible for design of the project listed above:

Barry A. Loveland, Chief, Division of Architecture & Preservation
Pennsylvania Historical & Museum Commission

1. East Elevation, 2013
2. South Elevation, 2013
SECTION 3  EXHIBITS

3.3 Bertolet Saw Mill at the Daniel Boone Homestead
Restoration to operating condition as historic industrial museum

1. Prior to first restoration, 1992
2. After first restoration, 1993
3. During second restoration, 2013
4. After second restoration, 2014
5. Cross-section at sash assembly
6. Setting the blade pitch
7. Restored sash assembly
8. Log cutting, 2014
9. In full operation, 2014
10. Carriage advancement assembly
11. Restored ratchet and pawl
The Historic American Buildings Survey and Historic American Engineering Record (HABS/HAER) program is one of our nation’s most treasured and heavily referenced preservation resources. John’s contribution to the HABS/HAER Collection began when he was a student in 1978, when the HAER program was less than 10 years old. Throughout his professional career since then, John has developed and refined the art of industrial process interpretation through the completion of more than fifty HABS/HAER documentation projects across the country. Whereas HABS documentation focuses on the architectural details of buildings, industrial sites and buildings are shaped by the processes going on inside them. John’s graphic interpretation of these processes (and the buildings, sites and structures as well) has led to a new generation of teams of professionals documenting America’s landmark engineering and industrial sites. This includes not only his office staff whom he has mentored over the years, but the many students, architects, engineers, graphic designers and interpretive specialists who have utilized his drawings in the HABS/HAER Collection as inspiration for their own work.

PUBLICATIONS (where John’s drawings have been used):


PUBLICATIONS (about John):


LECTURES (by John):


I have personal knowledge that the Nominee was largely responsible for design of the project listed above:

Robert J. Kapsch, Ph. D., Hon. A.I.A., Chief (now retired)
Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER)
SECTION 3 EXHIBITS

3.4 36 Years of HABS/HAER Documentation

Contribution to the permanent public record of American culture

Coles Water Tank
Salttillo vicinity, Pennsylvania

- Constructed 1919
- National Historic Landmark site
- East Broad Top Railroad
- Steam-era enclosed water station
- Sole surviving tank on this railroad
- Documentation complete 2009

Drawing documentation of tank facility specific to narrow-gauge, coal-hauling railroad; set includes graphic depiction of how the water tank equipment fills a steam-powered locomotive.

Mascot Roller Mills
Ronks, Pennsylvania

- Constructed c.1740
- Operational milling museum
- Four-story stone/wood grist mill
- Exceptionally complete artifact
- Comprehensive 24-sheet set
- Documentation complete 1998

Drawing documentation of mill construction and grain processing system components; set includes graphic interpretation of grain refinement from receipt (raw) to delivery (finished).

New Milford Plant
Oradell, New Jersey

- Constructed 1882-1990 (closed)
- National Register site
- Hackensack Water Company
- Pioneer of Public Water Systems
- Pumping-Purification Equipment
- Documentation complete 1998

Documentation of structures and equipment within 14-acre site along Hackensack River; set conveys architectural, pumping and purification system chronology over 100 years.

Walnut Street Bridge
Harrisburg, Pennsylvania

- Constructed 1890
- National Register listed
- National Historic Civil Eng. Landmark
- 2,820’ length, through-truss
- Three spans destroyed in 1996
- Documentation complete 1996

Documentation of fifteen pin-connected, wrought iron truss spans (Susquehanna River); includes construction assembly drawings of 1862-patented “Phoenix-column” members.
SECTION 3  
EXHIBITS

3.4  
36 Years of HABS/HAER Documentation
Contribution to the permanent public record of American culture

### Nassawango Iron Furnace
Snow Hill vicinity, Maryland

- Constructed 1830
- American Ironmaking
- Cold to hot blast technology
- Survives as a stabilized ruin
- Interpreted public space
- Documentation complete 1989

*John’s drawings document its construction and graphically illustrate how the furnace operated to produce pig iron from bog ore.*

### Submarine Escape Training Tank
New London, Connecticut

- Constructed 1929
- U.S. Navy submariner training
- 120 feet tall, diameter 16 feet
- Decommissioned 1982
- Only tank built in continental U.S.
- Documentation complete 1988

*Drawing documentation of construction and alteration of critical military facility used over 40 years for submerged escape training of naval personnel.*

### Betz Mill
Lynnville vicinity, Pennsylvania

- Constructed c.1770
- Log-frame grist mill
- Near collapse when documented
- Intact, complete wooden gearing
- Demolished, technology recorded
- Documentation complete 1983

*Drawing documentation of exceptionally complete early mill with wooden hurst frame; includes graphic depiction of milling component assembly and operation by miller.*

### Dam 4 Hydroelectric Plant
Stepherdstown vicinity, WV

- Constructed 1906
- Stone/concrete construction
- Active power-generating facility
- Potomac River Heritage
- Sole U.S. rope-driven plant
- Documentation complete 1980

*Drawing documentation of plant construction, river-supply hydrology and generating equipment; includes horizontal shaft turbines and operation of early rope driven system.*

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*Images and drawings courtesy of HABS/HAER.*
Morgan Log House
Preservation projects and resource stewardship

Building History
The Morgan Log House was built by Edward Morgan, an early settler, c.1708. It is a two-story log building with medieval Germanic influences which include a central cooking hearth and chimney, a winder stair to second floor bedrooms, sliding wood windows with pegged muntins, and a rare, double-tapered, side-lapped, wood shingle roof. The house remained in private ownership until 1970, when the Township of Towamencin purchased it to prevent its demolition. Noted historical architect G. Edwin Brumbaugh FAIA restored the building, reconstructing many of its lost details and adding a caretaker’s addition onto an old stone foundation that adjoined the building. The Morgan Log House was opened to the public in 1976 under the auspices of the Towamencin Historical Society.

In 1996, John prepared a condition assessment report on the building which studied deterioration that had occurred since the log house began operation as a museum. In response to the needs of an actively interpreted historic resource, the report also: 1) determined those repairs necessary to maintain a museum-grade environment for the Morgan collection of historic furnishings and 2) evaluated the impact of the directed visitor experience upon the historic fabric.

Project Description
The condition assessment report identified four primary concerns; each was systematically addressed in projects over the next 11 years, as funding became available. Discreet lighting and alarm systems were installed (completed in 1999); excess moisture levels were corrected in the foundation and basement (completed in 2000). In the third project, the double-tapered, side-lapped shingle roof was replaced (completed 2003). The fourth project (completed in 2007) included in situ repair of numerous surviving original logs and the redaubing of failed mortar joints using precisely matched mortars. Throughout these projects, John collaborated with the Society’s director to develop a long-range inspection and maintenance plan for the building, based on performance of the surviving original elements, various materials installed in the early 1970s, and on the projected lifespan of the newly installed materials and systems.

Project Significance
The Morgan Log House is a distinctive surviving example of medieval Germanic construction within the United States (placed onto the National Register of Historic Places in 1973). The roofing project served as a well-referenced, practical study in the crafting of hand-split shingles (inclusive of cross-grain taper) and their installation in side-lapped fashion with face nailing. These roofing methods were subsequently employed in three other early-German roof replacement projects at historic museum sites in southeastern Pennsylvania over the next four years. The tenure of projects collectively demonstrates John’s commitment to expanding preservation through the fostering of client stewardship. Within the challenging context of small historic house museums, the Morgan Log House sustains its public history mission through diligent stewardship of its architecture.

I have personal knowledge that the Nominee was largely responsible for design of the project listed above:

Sarah DiSantis, Executive Director
Morgan Log House
1. Roof details prior to restoration, 2002
2. Roof shingle replacement
3. Roof shingle replacement
4. Samples of double-tapered shingles
5. Completed roof installation, 2003
6. Roof shingle demolition
7. Construction drawing
8. Side-lapping the shingles
SECTION 3 | EXHIBITS

3.5 Morgan Log House

Preservation projects and resource stewardship

1. Start of restoration, 2007
2. Completed west elevation, 2007
3. Matching daubing mortar
4. Repaired sliding wood windows
5. Nearing completion, 2007
6. Installing daubing mortar
7. Repairing joint at door head
8. Repairing joint at door sill
3.6 Ben Schroeder Saddletree Factory Complex

*Restoration to operating condition as historic industrial museum*

**Building History**

A saddletree is the wooden frame of a saddle which is typically clad in a rawhide or cloth cover. Its complex, curved components are designed to distribute the rider’s weight safely across the horse’s back. Situated on the Ohio River, midway between Cincinnati and Louisville, Madison was a leading center of saddletree production in the United States throughout the 19th century. John Benedict “Ben” Schroeder’s factory was one of 13 saddletree factories in Madison. It operated from 1878 until the death of his son Joe Schroeder in 1972.

When Historic Madison, Inc. (HMI) acquired the Schroeder property in 1975, the factory complex was exactly as it had been when Joe Schroeder died, filled to the rafters with patterns for saddletree components and hand tools collected over the previous 94 years. HMI staff researched the buildings and their contents and learned that the Schroeder complex was a unique and remarkably intact survivor of American manufacturing, worthy of restoration and interpretation to the public.

**Project Description**

Due to the narrowness of the site, work on the buildings was undertaken in consecutive projects. The first project, restoration of the Bench Shop/Blacksmith Shop, involved: foundation and structural stabilization; repairs to doors, windows and siding; reroofing; restoration of the knob & tube wiring and lighting, and electrical service upgrades.

The second project focused on the Woodworking Shop, with its appended Saw Mill, Boiler Room and Generator Room. Restoration work included: extensive foundation and structural repairs; replacement of the deteriorated floor; repairs to doors, windows and siding; reroofing; restoration of the knob & tube wiring and lighting (to provide lighting at the same wattages and the same locations as used by the Schroeders), and electrical upgrades. All machinery was carefully removed, restored to operational condition, and reinstalled—including the electric motors, shafts, pulleys and belts. Modifications to protect the visiting public included the installation of discreet belt guards and a complete machine safety lock-out system.

The Residence was restored and rehabilitated to accommodate interpretive exhibits on the Schroeder family and the manufacture of saddletrees (first floor) and a new site manager’s office on the second floor. The project involved: exterior brick repair and cleaning; repairs to doors, windows and interior finishes; installation of new HVAC, and upgrades to the lighting and electrical system.

**Project Significance**

The Ben Schroeder Saddletree Factory Complex is the sole U.S. survivor of saddletree production, a manufacturing process that created an essential transportation product used by every person who rode a horse in America until automobiles replaced them. The carefully preserved buildings and machines are available for future generations to experience as a fully-interpreted component of the remarkable 133-block Madison National Historic Landmark District.

I have personal knowledge that the Nominee was largely responsible for design of the project listed above:

[Signatures]

John M. Staicer, President & Executive Director
Historic Madison, Inc.
SECTION 3  EXHIBITS

3.6 Ben Schroeder Saddletree Factory Complex

Residence

1. Site Plan: Residence shown dark
2. Prior to restoration, 2002
3. Stacked saddletrees, 1974
   LOC/HAER IN-26-28, Jack Boucher, photographer
4. After restoration, 2004
5. Interior finish restoration
6. Accessible entry
7. Exterior painting
8. Exterior restoration
SECTION 3  EXHIBITS

3.6 Ben Schroeder Saddletree Factory Complex

*Woodworking Shop*

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1. Site Plan: Woodworking Shop shown dark
2. Prior to restoration, 2001
3. Restored interior and machines, 2004
4. Restored exterior elevations, 2004
5. Testing planer operation after restoration
6. Repair of appended Saw Mill
7. Repair of Generator Room roof
8. Installing new belt onto custom shaper
SECTION 3  EXHIBITS

3.6  Ben Schroeder Saddletree Factory Complex

Bench Shop

1. Site Plan: Bench Shop shown dark
2. Prior to restoration, 2000
3. Prior to restoration, 2000
4. Restored bench area, 2004
5. West elevation during restoration
6. East elevation during restoration
7. Roofing progress
8. Restored interior finishes, 2004
9. Interior restoration along bench
10. Interior restoration above bench
11. East elevation during restoration
3.7 Hope Lodge
Interior paint restoration for comparative architectural interpretation

Building History
Hope Lodge is a celebrated example of Early Georgian domestic architecture. It was constructed between 1743 and 1748 by Samuel Morris; his was the first of nearly two centuries of wealthy Philadelphia families to own it. In 1922, the house was spared demolition by patron preservationists William and Alice Degn, who purchased it as residence and suitable setting for their 18th and early 19th-century collection of art and furnishings. The Degns began deliberated restoration under noted Philadelphia architect Paul Cret, FAIA. Cret repaired areas of long-term deterioration and “restored” the house interiors in the Colonial Revival style, painting all the plastered surfaces and wood components white—the color presumed by many scholars and architects (at that time) to be the true Colonial style. After Mrs. Degn’s death, the Commonwealth of Pennsylvania acquired Hope Lodge, opening it for public visitation in 1957.

In 1991, a bold interpretation scheme was developed for the interior of Hope Lodge. Paint analysis of the original 18th-century finishes documented intense Colonial colors—ones largely unseen by modern eyes much more familiar with the monochromatic white backdrop of early 20th-century Colonial Revivalism. The plan proposed to interpret the interior rooms on the south side of the center hall to the Degn family Colonial Revival era while rooms on the north side of the center hall (plus the center hall itself) would be interpreted to the Morris family Colonial era. With no funds available to hire commercial painters to undertake the project, the nonprofit associates group—Friends of Hope Lodge (FHL) assisted the Commonwealth by donating their time and talent.

Project Description
John Bowie coordinated the technical training and led the following six primary project tasks: 1) specifications to assist the FHL in ordering the proper materials and equipment for the project; 2) planning the sequence of work over a two-year period; 3) instruction on cleaning, priming and painting surfaces with authentic 1930s-era products (Colonial Revival rooms); 4) technical training for finely grinding Prussian blue, yellow ochre and lampblack pigments, blending with pure linseed oil and titanium dioxide (white lead was no longer available), and applying long-drawn strokes with round-headed, natural bristle brushes (Colonial rooms); 5) preparation and installation of custom-blended gum Arabic and shellac glaze to give a uniform level of gloss to all painted and grained wood surfaces; and 6) techniques of applying lime-instilled paint (to simulate whitewash) onto the plaster walls and ceilings (Colonial rooms).

Project Significance
The project documented and rejuvenated two period-authentic paint applications, inclusive of materials and tools, to accurately represent and distinguish the historic texture, color and finish of each period. The project disseminated these techniques through the FHL volunteers who faithfully executed the work and all subsequent visitors to Hope Lodge who enjoyed a rare tandem interpretation of Colonial history and Colonial Revivalism. Hope Lodge was the first historic house museum to undertake this type of project. Visitors are enveloped by the high contrast of authentic 18th century color against muted 1930s Colonial Revivalism and thereby challenged to reconsider how history has been interpreted to them elsewhere.

I have personal knowledge that the Nominee was largely responsible for design of the project listed above:

Brenda Reigle, Director, Bureau of Historic Sites and Museums
Pennsylvania Historical & Museum Commission
SECTION 3 EXHIBITS

3.7 Hope Lodge

*Interior paint restoration for comparative architectural interpretation*

1. Hope Lodge, 2014
2. Priming Degn-era woodwork
3. Preparing Morris-era woodwork
4. Restored Morris-era Parlor looking through Center Hall into restored Degn-era Parlor
5. Fine-grinding Prussian blue pigment
6. Restored Degn-era Parlor
7. Preparing Center Hall
8. Preparing graining samples
9. Prepared Degn-era Parlor

*Photograph #4 by A. Pierce Bounds*
## Reference Letters

### Alan Greenberger, FAIA
Deputy Mayor
City of Philadelphia (former principal with MGA Partners)
1515 Arch Street, Philadelphia, PA 19102

**Professional relationship to candidate:** Professional colleague - collaborated with candidate on “The Wood Turning Center and the John Grass Company, A Collaborative Future?” adaptive reuse feasibility study project while principal with MGA Partners.

### Hyman Myers, FAIA
Preservation Consultant
VITETTA (retired principal)
Merion Station, PA 19066

**Professional relationship to candidate:** Former employer and professional colleague – employer and mentor to candidate from 1983 to 1986, and collaborated with candidate on numerous projects at the PA State Capitol from 1995-2011.

### Glenn W. Birx, FAIA
Vice President and Principal
Ayers Saint Gross, Inc., Architects
1040 Hull Street, Suite 100, Baltimore, MD 21230

**Professional relationship to candidate:** Professional colleague – long-time collaboration on business development and professional standards of care.

### Frank W. Grauman, FAIA
Principal
Bohlin Cywinski Jackson
123 South Broad Street, Suite 1370, Philadelphia, PA 19109

**Professional relationship to candidate:** Professional colleague – long-time collaboration with candidate on numerous preservation projects in northeastern Pennsylvania.

### Robert J. Kapsch, Ph.D., Hon. AIA
Chief (retired)
Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER)
Gaithersburg, MD 20878

**Professional relationship to candidate:** Professional colleague – long-time collaboration with candidate on numerous documentation projects across the country.

### John M. Staicer
Executive Director
Historic Madison, Inc.
500 West Street, Madison, IN 47250

**Professional relationship to candidate:** Client – candidate worked closely with Mr. Staicer for nine years researching and carefully restoring the Saddletree Factory site and buildings.

### Rep. Paul M. Clymer
Chairman
Pennsylvania Capitol Preservation Committee
Room 630, Main Capitol Building, Harrisburg, PA 17120

**Professional relationship to candidate:** Professional colleague – long-time collaboration with candidate on numerous projects at the PA State Capitol from 1995 to the present.