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EMPLOYMENT

Owner/ Principal, Aurora Research Associates, LLC Silver Lake, OH

Oct 2011-present

Firm Profile: ARA is an historic preservation and environmental services consulting firm specializing in architectural history, National Register evaluations and nominations, preservation planning, building pathology and repair/restoration, Section 106, 4-f and NEPA environmental review and education/advocacy. The company is a certified Ohio EDGE, Ohio and West Virginia DOT DBE, US Small Business Administration WOSB and West Virginia Department of Administration small woman-owned business.

Project Highlights

- Uhler Avenue CSO Rack 27/29 Improvements, Akron, OH, 2017-current
Client: CT Consultants/City of Akron
Completed Ohio State Historic Preservation Office Section 106 Project Summary Form for Akron Waterways Renewed! sewer upgrade project, including OHPO I-form, mapping and historic research.
- Coal Heritage Survey Update, McDowell County, WV, 2016-2017 (ongoing)
Client: West Virginia Division of Highways (Transportation Enhancement Grant)
Planned and managed survey of over 2,000 historic coal-related resources previously surveyed in 1991. Hired and led team of 7 in the field. Coordinated completion and review of Historic Property Inventory forms and survey report.
- S. Detroit Avenue Reconstruction, Toledo, OH, 2017.
Client: TTL Associates, Inc.
Performed preliminary architectural field survey and completed Ohio DOT Section 106 Project Scoping Request Form. Project was cleared with No Effect on Historic Buildings.
- Robinson Grand Theater Renovation Section 106 Review, Clarksburg, WV, 2014-16
Client: WYK Associates
Coordinator of Section 106 review for restoration of historic theater receiving USDA Rural Development funding, including historic research, report preparation, agency coordination and public involvement.
- West Virginia State University F. Ray Power Building Section 106 Review, Institute, WV, 2017.
Client: Terradon Corp.
Performed field survey and determination of effect report for renovation of 1975 office building adjacent to historic WV School for the Colored Deaf and Blind. Achieved SHPO concurrence on finding of No Adverse Effect with no additional negotiation or correspondence required.
- West Virginia Division of Highways Statewide On-Call Consultant for Cultural Resources

Client: West Virginia Division of Highways

One of thirteen firms competitively selected to provide cultural resource environmental services as needed, including Section 106 and 4-f review, memoranda of agreement, public involvement, mitigation and NEPA clearance for highway and bridge projects throughout the state of West Virginia.

- Ohio Department of Transportation Statewide Ecological Survey Services
Client: Enviroscience, Inc.
As subconsultant, provide fieldwork for endangered species surveys, preparation of associated technical reports, and QA/QC on environmental documents for a variety of transportation projects throughout Ohio.
- West Virginia State Historic Preservation Grant Monitoring, 2015.
Client: WVSHPO.
Field visited 20 historic preservation grant recipient sites throughout West Virginia to ensure continued maintenance and preservation under grant agreement terms.
- Beverly, WV Architectural Survey and National Register Nomination Update, Randolph County, WV; 2013 -2014
Client: Beverly Historic Landmarks Commission
Compiled and analyzed previous surveys of the Beverly Historic District; created all new Historic Property Inventory forms for 206 previously surveyed and additional properties; researched and prepared additional historic context and significance statement; wrote completely updated National Register Nomination document and boundary expansion amendment including new mapping and photography.
- Brookside Historic District National Register Nomination, Preston County, WV; 2012
Client: The Aurora Project, Inc.
Researched, wrote and prepared all photos and supplemental materials for a ca. 1880 tourist resort with approximately 15 contributing resources
- Valley View and Springfield Brick House National Register Nominations, Hampshire Co., WV; 2012
Client: Hampshire County Historic Landmarks Commission
Researched, wrote and prepared all nomination materials for two individual ca. 1855 Greek Revival houses.
- Thomas, WV Walking Tour, Tucker Co., WV; 2011-12
Client: Tucker County Historic Landmark Commission
Researched and prepared content for self-guided walking tour brochure and website of 40+ resource historic district. Partner: Digital Relativity (web design/programming and graphic design)

**Architectural Historian/ Highway Engineer, West Virginia Division of Highways Environmental Section
Charleston, WV** 2005-2011

Project Highlights

- West Virginia Statewide Historic Bridge Survey 2008-2011
Partners: KCI Technologies, Mead and Hunt, RPM Engineering
Served as project manager for statewide effort to survey 3000+ potentially historic bridges. Led coordination of review and eligibility negotiations with WV State Historic Preservation Office and public involvement efforts. Prepared independent estimates and managed consultants and budget.
- U.S. Route 35 Upgrade, Mason County, WV 2005-2011
Performed NEPA re-evaluation of Final Environmental Impact Statement for multi-million dollar upgrade of regional highway. Completed Late-Find 4(f) analysis of a previously undocumented historic farm in the project area. Led mitigation negotiation meetings between project stakeholders including the Federal Highway Administration, WVSHPO, WV Department of Agriculture, property owners, county government, local tourism board, architect and others. As part of a team, crafted mitigation plan to address adverse effects and oversaw the execution of stipulations.
- Small Bridge Replacement Projects, West Virginia (statewide) 2005-2011
Managed Section 106 Review, Section 4(f) Analysis and NEPA coordination for over 40 small bridge replacement projects throughout West Virginia. Reviewed all WV Historic Property Inventory forms and reports produced by the Environmental Section. Performed field surveys for each project and completed over 300 HPI forms for bridges and surrounding structures over 50 years of age. Coordinated with the WVSHPO, public, local governments and historic groups on research, eligibility determinations and mitigation. Crafted Memoranda of Agreement and completed archival documentation for historic structures.
- Market Street Bridge, Brooke County, WV 2009
Performed Section 106/ Section 4(f) review of historic bridge rehabilitation project. Led coordination with WVSHPO and public involvement efforts to result in a finding of No Adverse Effect.
- Capon Lake Whipple Truss, Morgan County, and Winfield Toll Bridge, Putnam County 2011
Completed National Register nominations for 1874 Whipple Truss that has been preserved as a pedestrian park in Morgan County, and 1955 Winfield cantilever through truss that provided a major new transportation connection across the Kanawha River.
- Comprehensive Mitigation Tool Kit 2010
Led cooperative effort with WVDOH Engineering and Planning Divisions, and SHPO, to create comprehensive mitigation tools for removal of historic small bridges throughout the state. Wrote content for sample public education poster about Historic Metal Trusses.
- Mussel Survey Dive Team 2009-2011

Obtained open water SCUBA certification and trained in freshwater mussel biology and survey techniques in order to assist WVDOH biologists with environmental studies. Performed a number of dive, snorkel and wading mussel surveys across West Virginia.

- History Day at the West Virginia State Capitol 2006-2011
Led WVDOH participation and public outreach at History Day during the state legislative session by designing and preparing displays about road history, West Virginia history, highway projects, transportation planning and other topics. Met with a number of local history organization representatives and individuals from across the state.
- Fourth Street Bridge, Fairmont, Marion County, WV 2009-2011
Managed complex bridge replacement project in National Register Historic District, including coordination between state and federal agencies, city government, local landmarks commission, SHPO and other consulting parties. Reevaluated approximately 30 historic properties within project area and surveyed 10 additional properties. Completed Section 4(f) alternatives analysis and crafted public meeting handout and GIS mapping.
- Pennsylvania Avenue, Weirton, Ohio County, WV 2007-2009
Surveyed and completed Historic Property Inventory forms on a team of three for over 75 properties for a two-phase road improvement project in historic steel mill town. Evaluated National Register eligibility prepared Section 106 Report and completed Section 106/NEPA documentation.
- Dunloup Creek Bridges, Fayette County, WV 2008-2010
Managed Section 106/4(f) compliance review for three small bridge replacements within New River Gorge National River. Coordinated with the National Park Service, FHWA and county landmarks commission on documentation and mitigation. Prepared Memorandum of Agreement and completed NEPA Categorical Exclusion documentation package.
- Shinnston Bridge, Harrison County, WV 2007-2010
Surveyed and evaluated 25 residential structures in project area for large bridge replacement project. Coordinated with local government, the public, SHPO and state and federal agencies for Section 106/4(f) review for removal of historic bridge. Wrote Memorandum of Agreement and completed archival documentation for the bridge.

Independent Consultant, Charleston, WV 2004-2011

- Camp Caesar Historic District National Register Nomination, Webster County, WV 2009
Prepared and authored National Register nomination for historic county 4-H camp (1922) containing 40+ contributing resources. Historic contexts for the camp included WPA/New Deal programs, the state and national 4-H movement, summer camp history, rustic architecture and other aspects.
- Jackson's Mill State 4-H Camp National Register Nomination, Lewis County, WV 2004

Prepared and authored National Register nomination for Jackson's Mill, (1921) the first statewide 4-H camp in the nation, including 30+ contributing resources.

Structural Engineer, Robert Silman Associates, Washington, DC

2005-2007

- Performed structural design in concrete, steel and timber for boutique preservation engineering firm. Participated in on-site structural condition assessments and prepared reports and repair recommendation for historic buildings. Assisted with design of new structures, additions and other structural elements for a variety of buildings including government landmarks, historic homes, barns, new residences, museums and statuary.

Project Highlights

- Woodlawn Plantation, Alexandria VA
Assisted with condition assessment and repair recommendations for smokehouse building on the grounds of 1805 National Historic Landmark.
- Arlington House, Arlington, VA
Assisted with condition assessment of foundation of historic 1803 mansion on the grounds of Arlington National Cemetery.
- Virginia State Capitol, Richmond, VA
Assisted with on-site field visits, condition assessments and structural design calculations for restoration of landmark state capitol originally designed by Thomas Jefferson.
- DC Court of Appeals, Washington, DC
Assisted with structural exploration, load calculations, and structural design calculations for major restoration of 1820 National Historic Landmark, including complex construction of parking garage and floor levels beneath existing building.

Historian-in-Residence,

WVU Jackson's Mill State 4-H Camp, Jackson's Mill, WV

2003

- Designed and conducted workshops, walking tours and presentation on the history of Jackson's Mill for a variety of user groups, including 4-H members ages 12-21, seniors and other groups. Conducted condition assessments on 14 cottages and documented structural issues.

Intern, Vandalia Heritage Foundation, Fairmont, WV

2002

- Worked with preservation architect on condition assessments and restoration consultation for a variety of historic buildings in West Virginia, including the Marion County Courthouse. Independently took field dimensions and produced measured drawings for 9 structures by hand and using AutoCAD.

EDUCATION

M.S. Historic Preservation, Columbia University, New York

2003

- Thesis: "Jackson's Mill State 4-H Camp: The Summer Camp as a Cultural Heritage Site."
- 2003 Winner of the Voorsanger Writing Prize for American Architectural History, sponsored by the Temple Hoyne Buell Center for the Study of American Architecture

- Teaching Assistant, “Basic Principles of Traditional Construction” and “Investigative Techniques for Historic Structures”

B.S. Civil Engineering, West Virginia University, Morgantown

2001

- West Virginia University Presidential Scholar
- West Virginia University Honors Program
- Chi Epsilon and Tau Beta Pi National Engineering Honorary

CONTINUING EDUCATION

(Course Title; Sponsor; Location; Dates)

- Leadership Akron/Women’s Network Community Leadership Institute, Spring 2018.
- West Virginia Design and Construction Expo, Charleston, WV; 2011-2018
- Ohio Transportation Engineering Conference, Columbus, OH; 2012-2017.
- ODOT Categorical Exclusion Prequalification Training; ODOT Office of Environmental Services; Columbus, OH; May 14-15, 2013.
- ODOT Section 4(f) & 6(f) Prequalification Training; ODOT Office of Environmental Services; Columbus, OH; April 2018.
- ODOT Section 106 Prequalification Training; ODOT Office of Environmental Services; Columbus, OH; April 2, 2013.
- Preserving the Historic Road 8th Biennial Conference, Indianapolis, IN; September 20-22, 2012 (presenter)
- National Trust for Historic Preservation Annual Conference; Buffalo, NY; October 19-22, 2011
- Cultural Resource Management Compliance for Non-Specialists; National Preservation Institute; Charleston, WV; July 18-19, 2011
- NEPA and the Transportation Decision Making Process; National Highway Institute; Charleston, WV; June 14-16, 2011
- STARS Workshop (Integrating Highway Planning and the Environment); Federal Highway Administration; Charleston, WV; April 26-27, 2011 (presenter)
- Freshwater Mollusk Conservation Society 7th Biennial Symposium; Louisville, KY; April 11-15, 2011
- Transportation Research Board 90th Annual Meeting; Washington, DC; January 23-27, 2011
- Freshwater Mollusk Conservation Society Regional Fauna Identification and Sampling Workshop; St. Louis, MO; October 19-21, 2010
- Seven Habits of Highly Effective People Signature Program; WVDOH; Charleston, WV, September 21-23, 2010
- Preserving the Historic Road 7th Biennial Conference; Washington, DC; September 9-12, 2010 (presenter)
- Public Involvement Techniques for Transportation Decision Making; National Highway Institute; Charleston, WV; July 27-29, 2010
- Freshwater Mussel Survey SCUBA Dive Training; WVDOH; Davis, WV; April 12-16, 2010
- Freshwater Mussels and Construction Projects in Rivers; WVDOH and WV Division of Natural Resources; Charleston, WV; February 2-4, 2010
- Transportation Research Board 89th Annual Meeting, Washington, DC, January 10-14, 2010
- FEMA Floodplain Regulation Training; WVDOH; Charleston, WV; January 22, 2009
- Advanced Seminar in Reaching Successful Outcomes in Section 106 Review; Advisory Council on Historic Preservation and Federal Highway Administration; Charleston, WV, 2009

- Identifying and Evaluation Resources of the Recent Past; Ohio Historical Society; Columbus, OH; September 27, 2007
- GIS: Practical Applications for Cultural Resource Project; National Preservation Institute; Lincoln, NE, May 10-11, 2007
- Beyond Compliance: Historic Preservation in Transportation Project Development; National Highway Institute; Charleston, WV; May 15-17, 2007
- Decision-making for Cultural and Natural Resources in a Legal Environment; National Preservation Institute; Washington, DC; April 24-25, 2007
- Section 106: How to Negotiate and Write Agreements; National Preservation Institute; Phoenix, AZ; March 28-30, 2007
- Geographic Information Systems Levels I-III; Rahall Appalachian Transportation Institute and WVDOT; Charleston, WV; 2006
- National Environmental Policy Act (NEPA) and Project Development; Federal Highway Administration Resource Center; Parkersburg, WV; June 14-16, 2006
- Section 106 Essentials; Advisory Council on Historic Preservation; Washington, DC; May 31-June 1, 2006
- National Trust for Historic Preservation Annual Conference; Pittsburgh, PA; 2006.

PUBLICATIONS

“Historic Travel Guides as Research Sources.” Paper presented at the 8th Biennial Conference on Historic Roads. Indianapolis, IN, September 20-22, 2012.

“Innovative Mitigation in an Historic Agricultural Landscape: U.S. Highway 35 in Mason and Putnam Counties, WV.” Paper presented at the 7th Biennial Conference on Historic Roads. Washington, DC, September 9-12, 2010.

“West Virginia’s Historic Turnpikes: Research and Survey Methods.” Paper presented at the 6th Biennial Conference on Historic Roads. Albuquerque, NM, September 11-14, 2008.

“The American Summer Youth Camp as a Cultural Landscape.” In *Cultural Landscapes: Balancing Nature and Heritage in Preservation Practice*, edited by Richard Longstreth. Minneapolis: U. of Minnesota Press, 2008.

“Jackson’s Mill State 4-H Camp: The Rural Summer Camp as a Cultural Heritage Site.” *Future Anterior Journal of Historic Preservation History, Theory and Criticism* 1 (Spring 2004): 38-46.

PROFESSIONAL LICENSES AND MEMBERSHIPS

Licensed Professional Engineer, West Virginia, No. 17954

Licensed Professional Engineer, Ohio, No. 75861

Open Water Scuba Diver Certification, Scuba Diving International #352337