



## MELANIE KASPER RODBART

### PROFESSIONAL ENGINEER

#### EDUCATION

MS in Civil Engineering, Drexel University, 2004  
BS in Civil Engineering, Bucknell University, 2001

#### PROFESSIONAL EXPERIENCE

J&M Preservation Studio, *Principal*, 2013 to present  
S. Harris Ltd., *Project Manager*, 2005 to 2013  
Urban Engineers, Inc., *Engineer in Training*, 2001- 2005  
Bucknell University, *Research Assistant*, 2000  
Pennsylvania Department of Transportation, *Construction Inspector*, 1999

#### PROFESSIONAL REGISTRATIONS

*Professional Engineer (Civil)*: Pennsylvania, New Jersey, Virginia, Delaware

#### PROFESSIONAL CERTIFICATIONS

Confined Space Entry, 29 CFR 1910.146, *Certificate*, 2008  
Conservation Assessment Program (CAP), *Architectural Assessor*, 2009  
LEED GA: USGBC Leadership in Energy & Environmental Design Green Associate, 2009

#### PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineers (ASCE), Member of Philadelphia's Younger Forum  
Association for Preservation Technology International (APT), Member  
Delaware Valley Association of Structural Engineers (DVASE), Member  
Preservation Alliance for Philadelphia, Board of Directors

#### PROFESSIONAL HONORS AND AWARDS

ASCE's top 10 New Faces in Civil Engineering, 2009

#### PRESENTATIONS AND PUBLICATIONS

"Traditional Bermudian Building Style", Association for Preservation Technology International, November 2007.  
"Structural Conservation Using Articulated Reinforcement at The Lewis Store", American Institute of Conservation, April 2007.

#### SELECTED WORK EXPERIENCE

**Asbury Park Convention Hall**, *Asbury Park, NJ (Completed with S. Harris Ltd.)* Project Manager and Project Engineer for the preservation and redevelopment of the Convention Hall and Paramount Theatre. A sensitive approach to the remodeling of this historic building is what has made this project so successful. Responsibilities included structural survey work, analysis of existing girders and lintels, facade inspection, preparation of construction documents, communication with SHPO, and construction contract administration services. This project is ongoing and the building is listed on the National Register of Historic Places.

#### **Historic St. Peter's Episcopal Church**, *Philadelphia, PA*

*(Completed with S. Harris Ltd.)* Structural Engineer for the structural stabilization of St. Peter's Church, an 18<sup>th</sup> century church, also a National Historic Landmark. Responsibilities included conducting a structural assessment, load analysis, analysis of roof timber roof trusses, coordinating wood pathology consulting, design of reinforcements and repairs, and production of construction documents for repairs.

#### **Penn Hall at Bucks County Community College**,

*Newton, PA (Completed with S. Harris Ltd.)*

Project Manager and Structural Engineer for Penn Hall Column Reconstruction project. Responsibilities included conducting a structural investigation, analysis of structural components, design development, preparation of construction documents, and construction contract administration.

#### **The David Sheppard House**, *Bridgeton, NJ (Completed with S. Harris Ltd.)*

Project Manager and Structural Engineer for the reconstruction of the existing structure and design of a new addition to the building acquired by Rutgers University. Responsibilities included providing a comprehensive survey and analysis of existing interior structural conditions; design of the structural reinforcements, design of the new framing for the proposed addition, and new roof design per FM Global Standards. The repairs to the existing building were completed in 2008.

#### **Lewis Store**, *Fredericksburg, VA (Completed with S. Harris Ltd.)*

Project Manager and Structural Engineer for the Lewis Store, one of the nation's oldest surviving retail stores. Responsibilities included the design of structural reinforcements to increase the load capacity, preparation of construction documents and specifications, and provided construction administration services. This project was successfully completed in 2006 and is listed on the National Register of Historic Places.

#### **Delaware Inn**, *Trenton, NJ (Completed with S. Harris Ltd.)*

Project Manager and Engineer for the structural stabilization of the Historic Delaware Inn. Responsibilities included the structural assessment and analysis of the existing framing members, preparing a highly detailed spreadsheet identifying and numbering all existing individual members for the purpose of specifying unique repair methods and minimize construction costs. In order to reach the Owner's goals of reopening the building as a living history museum as part of a larger Waterfront Development effort, several components of the current structural system required reinforcement. This project is currently under construction and is listed on the City, State, and National Register of Historic Places.