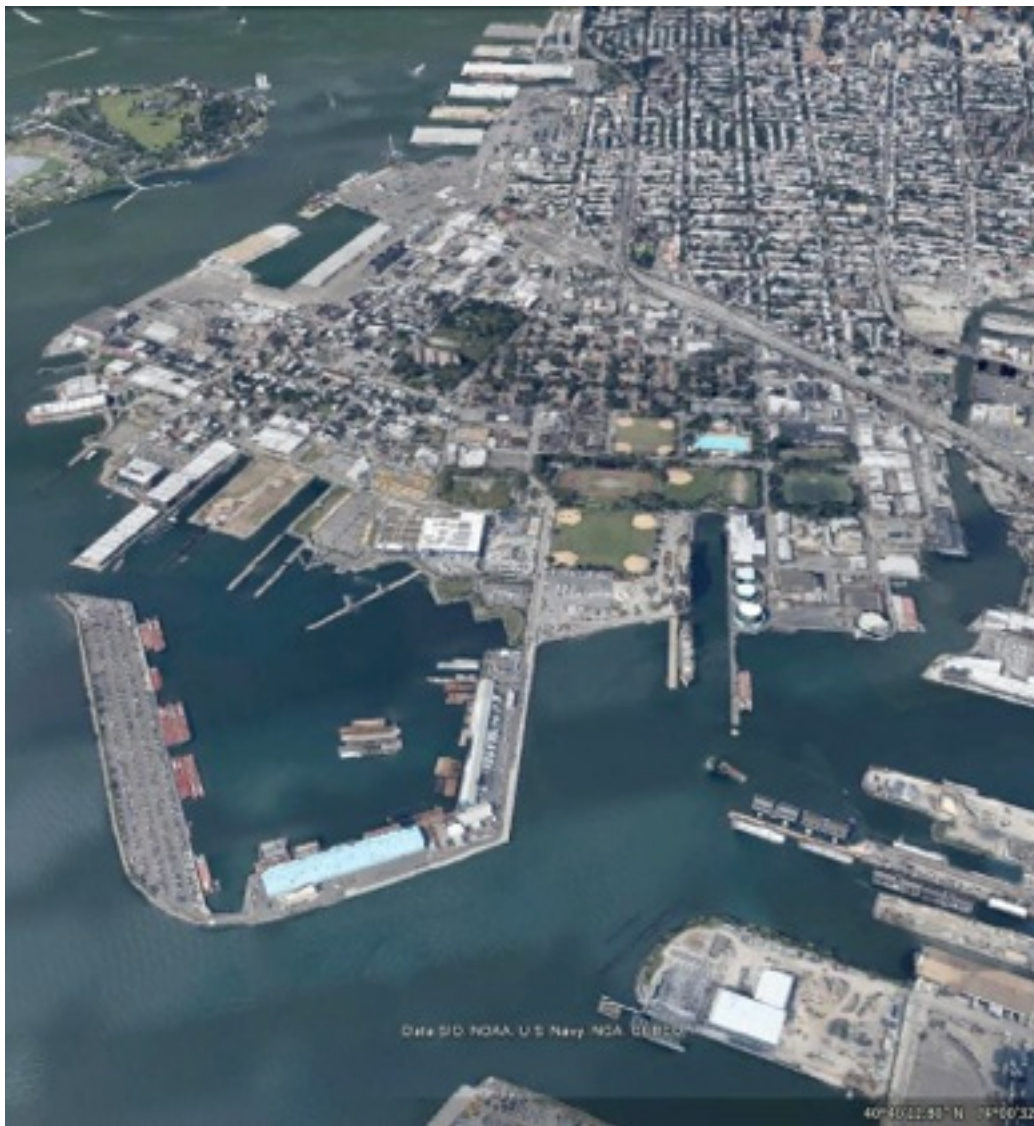


FALL 2013



RED HOOK RESILIENCY PROJECT
ARCH 1130_BUILDING TECHNOLOGY I

Professor Jason Montgomery, AIA LEED AP

RED HOOK PROJECT

Background:

Academic Service Learning

At Citytech, we are striving to endow our students with a world class education while also instilling values of professionalism and service that will serve them well in their professional careers. To this end, we are endeavoring to develop projects where the students can learn while simultaneously being of service to our community.



New York Times Super Storm Sandy Damage Slide Show Images 2012112

ARCH 1130 Building Technology I

This course is an introductory materials and methods and drawing course, with an emphasis on masonry and wood construction.

Professor Jason A. Montgomery, AIA LEED AP

I am an assistant professor in the Department of Architectural Technology at the New York City College of Technology. I have served on the faculty since the fall of 2009. At Citytech, I teach various courses, ranging from First Year Building Technology courses to Fourth Year Urban Design Studios. I am also the chair of our department's Steering Committee.

In addition to my faculty position, I am a licensed architect in New York and Pennsylvania and work part time as a principal in a firm Truong Montgomery Architect with my partner Anh Truong Montgomery. At Truong Montgomery Architect, as well as at other firms including Cooper Robertson and Partners and Hart Howerton in New York, I gained years of experience working on both urban planning projects as well as institutional and residential building projects.

Project Ideas:

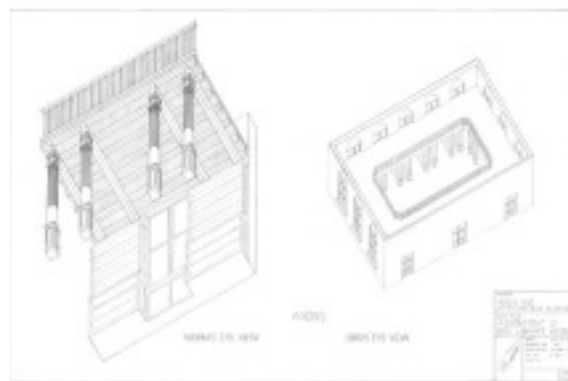
In this course the students do a study of the Brooklyn Historic Society Building, including a measured drawing project of the library space. We also typically do a study of the Lefferts House in Prospect Park. Working with historic buildings builds the students' appreciation for the importance of preservation in our local communities.

Building on these existing studies, I am particularly interested in looking at the masonry fabric of Red Hook, perhaps with a focus on the smaller scale industrial or residential buildings. These buildings are critical to the character of the neighborhood, and should be part of a preservation program that allows the neighborhood to grow and develop without destroying its history and heritage. Many of these buildings, however, are in the low lying areas of our city that will continue to experience coastal flooding and storm surges. As a result, there is a clear need to work to make these buildings more resilient and the occupants safer in the face of future storms. Without resiliency, this fabric may be susceptible to large scale redevelopment projects that significantly change the nature of the neighborhood.

Working with a community partner, I hope to confirm there is a need for studies that put techni-



Brooklyn Historical Society, Brooklyn Heights



Brooklyn Historical Library Detail Study, C Walker
spring 2013

cal and creative solutions on the table to assist building owners and occupants in their on-going effort to protect their buildings and neighborhood. We will work with the community partner to identify a case study building that embodies many of the typical issues facing the Red Hook built environment.

As part of the project the students will likely work to generate existing condition drawings as a base to further investigate the case study building. If there are drawings available for the case study building, that would be a significant advantage to facilitate the investigation.

The interface with the local community partner can be minimal and still meaningful, as we appreciate the continuing challenges in the neighborhood and the great effort of many people and organizations to address them. I suggest 2-3 meetings total with the community partner and the students.



PROJECT OBJECTIVES

The goals for this project are:

Benefit the Local Community:

1. **Provide** creative thinking and technical studies to address local community challenges with a focus on improving the resiliency of the building fabric and the safety of the building occupants.
2. **Document** existing conditions to identify problems
3. **Research and review** city guidelines and best practices towards clarifying best practices for resiliency.
4. Report back to the community partner and assist in disseminating the report to the community as appropriate.
5. Focus on **Historic Structures** to provide sensitive solutions as appropriate to architecture of these buildings.



Enrich the Students' Educational Experience:

1. **Develop an understanding** of the value of service to a local community.
2. **Generate clear and concise talking points** to guide oral presentations at community meetings.
3. **Apply** professional skills in real life situations.
4. **Understand and Apply** resilient construction techniques.

