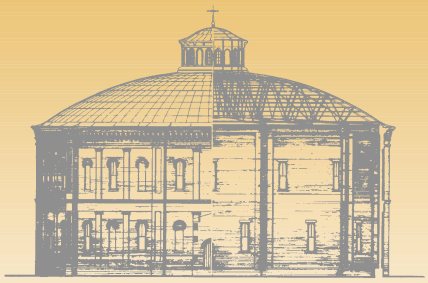

Digital Recording Strategies for Historic Structures

What Works and What Doesn't

Brooklyn Polytechnic University, June 6, 2002

Architects, engineers and historians frequently must prepare drawings and existing-condition evaluations on historic and existing buildings. Due to their size and complexity, industrial-archeological structures are difficult to record. Digital technologies have evolved rapidly to assist in this effort. But not all new technologies work, and not all new technologies work effectively. This training session will focus on these new digital recording technologies. Speakers have been selected based on their ability to apply proven technologies to the challenge of recording large and complex historic structures.

- *Robert J. Kapsch, Ph.D., Hon. AIA, ASCE* – **Welcome to Training Participants**
- *John A. Burns, FAIA* – **Don't Throw Out Your Hard Copy: Current Potentials and Limitations in Digital Technologies**
- *Richard K.Anderson, Jr., Architect* – **Applying the Secretary of Interior's Standards to Digital Methods: Select Projects**
- *Robert Score, AIA* – **Digitally Documenting the Chicago Auditorium Theatre Stage Hydraulic System: Laser scanning, library research and field investigation.**
- *Kent Diebold, President of Vertical Access* – **Direct Digital Input, Extraction and Presentation of Condition Survey Information**
- *Gordon B. Bingaman, AIA* – **Recording George Washington's Barn and Other Subjects: Single Image Photogrammetry and Theoretical CAD Modeling.**
- *Dana Lockett, Architect* – **Recording Historic Ships: Convergent Photogrammetry and 3-D**

The emphasis will be on practical digital techniques. Participants will have extensive opportunity to interact with instructors to discuss the digital techniques presented and related topics. Lunch will be provided. The training session is being held in conjunction with the 31st Annual Conference of the Society for Industrial Archeology and participants are cordially invited to attend the conference opening reception in the evening.

About the SIA – The Society for Industrial Archeology is a non-profit, international, interdisciplinary organization that promotes the study, appreciation, and preservation of the physical survivals of our industrial and technological past.

The word "archeology" underscores the Society's principal concern with the use physical evidence of industry and technology – the study, interpretation, and preservation of historically significant sites, structures, buildings, artifacts, industrial processes, landscapes, and communities.

Program Faculty

- ***Dr. Robert J. Kapsch,*** Hon. AIA, ASCE, Senior Scholar in Historic Architecture and Historic Engineering, National Park Service, Program Chair-man. Former Chief, for fifteen years, of the National Park Service HABS/HAER Documentation Program.
- ***Richard K. Anderson, Jr.,*** Cultural Resource Documentation Services, Sumter, South Carolina. Considered by many to be the finest HAER delineator, he established the ***Maritime Recording Standards for Large Vessels***. He is now a consultant in recording large and complex historic structures.
- ***John A. Burns,*** FAIA, Deputy Chief, Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER), National Park Service. He has been with HABS/HAER for over twenty-five years, half of which has been as Deputy. He started the HABS/HAER CAD/Photogrammetry Lab to record structures such as the Washington Monument, the Jefferson memorial the Lincoln memorial and others. He is author of ***Recording Historic Structures*** (AIA Press).
- ***Gordon B. Bingaman,*** AIA, Director of Technology, Quinn Evans, Washington, D.C. He began his career on the first HABS/HAER CAD project (Texas State Capitol). His recent projects have included the reconstruction of the treading barn at Mount Vernon, stabilization of the ruins at Menokin Plantation, Warsaw, VA; various infrastructure projects for the White House and Washington Monument; comprehensive CAD data base for Kennedy Center for the Performing Arts and numerous others. For his work in using the computer as an investigative tool, he was awarded the Award of Excellence, AIA Northern Virginia Chapter.
- ***Kent Diebold,*** President of Vertical Access LLC, Ithaca, NY, New York City and Washington, DC. He is President and Founder of Vertical Access LLC, a company offering inspection, testing and investigative services in difficult or hard-to-reach locations. Over the last ten years, Vertical Access has investigated a number of historically significant buildings, constructed of a wide variety of materials, including brick and stone masonry, terra cotta, concrete, architectural sheet metals and cast iron. Examples are the stainless steel "crown" of the Chrysler Building, the Chicago Tribune Building and State House domes in Massachusetts, New Jersey and West Virginia. He is currently President of the Association for Preservation Technology, International.
- ***Dana L. Lockett,*** Architect, Historic American Engineering Record, National Park Service. With HABS/ HAER for over ten years, he has specialized in CAD recording of large maritime vessels and other difficult to document historic structures.
- ***Robert Score,*** AIA, Project Architect, Preservation Group, McClier, Chicago. While with McClier, his projects have included the restoration of the Marquette Building, Restoration Master Plan for Unity Temple, and Documentation of the Stage Hydraulic System at the Auditorium Theatre. Prior to joining McClier, Mr. Score was an Architect with Ann Beha Associates in Boston where he was project manager for the Restoration of CA'd Zan, and master plans for the Nantucket Whaling Museum, and The Pavilion at Fort Ticonderoga. He is also Chair of the Chicago Chapter – Historic Resources Committee of the American Institute of Architects.