

ENGINEERING SEMINAR

Collapse of Shoring during Construction of the Elevated Walkway for the Atlanta Botanical Gardens

Abstract

This presentation summarizes SGH's investigation of the 19 December 2008 collapse of the elevated pedestrian bridge at the Atlanta Botanical Gardens. Designed as a steel, cable-stayed bridge with a concrete on metal deck walkway suspended as much as 40ft above grade, this structure collapsed while being temporarily supported during construction activities. The investigation involved surveys and subsequent failure analyses of the collapsed structure and its components, including helical piles, temporary shoring towers, steel grillage beams, steel cables, and the structural steel sections that comprise the original bridge design.

Dominic Kelly, P.E.

Associate Principal

Simpson Gumpertz & Heger Inc, Waltham, MA

Dominic Kelly, P.E. is an Associate Principal with Simpson Gumpertz & Heger Inc. located in Waltham, MA. Dominic's twenty-five years of experience includes design, rehabilitation, and investigation of building and nonbuilding structures. He is very active professionally with a focus on seismic and concrete committees. He is the Project Technical Committee Chair for ATC 98 Use of High Strength Reinforcement for flexural in seismic systems. He is leading a Building Seismic Safety Council effort on developing a new design approach for Rigid Wall/Flexible Diaphragm Buildings. He is currently a member of the following committees:



- ASCE/SEI 7 Task Committee on Seismic Provisions
- ACI 318 Building Code Requirements for Structural Concrete
- ACI 318 Subcommittee for Shear and Torsion
- ACI 318 Subcommittee for Seismic Design
- ACI 369 Seismic Rehabilitation of Concrete Buildings
- Building Seismic Safety Council's Provisions Update Committee (PUC)
- PUC Task Committee on Diaphragms
- PUC Task Committee on Anchorage to Concrete

Date: **Wednesday, December 5, 2012**

Time: **10:30 AM – 11:30 AM**

Location: **140 Ketter Hall, North Campus, University at Buffalo**

Webcast: <http://civil.eng.buffalo.edu/webcast>

Technical Questions: seeslwebcast@gmail.com

Refreshments will be served!

Organized by the Student Chapter of EERI at UB, CSEE-GSA, MCEER, Dept. of CSEE and NEES