

Investigation and Repair of Precast Concrete Failures along SEPTA's Frankford El

Monday, September 19, 2016
5:00pm, ENGR 2901



Reconstruction of SEPTA's Frankford elevated light rail line in downtown Philadelphia, originally constructed circa 1915, was completed in 1997. In 1998, Southeastern Philadelphia Transit Authority (SEPTA) identified several haunch locations where concrete spalled at the bearings. By 2007, it was found that the number of distressed haunches had grown to over 5,000. In this seminar, Rich Lindenberg will discuss the various aspects of the engineering investigation including the field investigation, instrumentation, and lab testing to identify the cause of distress and to develop repair recommendations.



Rich Lindenberg works at WJE's Fairfax, VA office as a structural engineer on the investigations of existing building and bridge structures. He is a licensed structural and professional engineer in multiple states. His interest areas include instrumentation, vibrations, finite element modeling, and digital data collection. Rich grew up on the eastern shore of Maryland, and is an alumnus of Georgia Tech and the University of Illinois. While at U of I, he completed his master's with a thesis researching damage detection and health monitoring.

Richard Lindenberg, SE, PE

Associate Principal, Wiss, Janney, Elstner Associates, Inc.

CEIE 795/800 Seminar Series