Dr. Randall Poston is Sr. Principal at Pivot Engineers, a structural engineering consulting firm in Austin, TX. An internationally recognized expert in structural engineering and member of the National Academy of Engineering, Randall Poston has established himself as one of the preeminent structural consultants in the United States. Dr. Poston has authored and delivered hundreds of papers and presentations related to the structural engineering industry, championed the repair of existing structures for upwards of 30 years, and dedicated his career to advancing the state of structural engineering knowledge. As past Chair of the American Concrete Institute (ACI) Committee 318 Structural Building Code (2008-2014), he oversaw a monumental effort to completely reorganize the concrete code, the first undertaking of its kind in the history of ACI. Engineering News-Record (ENR) named him a “Top 25 Newsmaker” of 2014 for his code reorganization leadership and ACI bestowed him with the Henry L. Kennedy Award for this work. Dr. Poston became the 96th President of the American Concrete Institute at the conclusion of the ACI Convention in Quebec City on March 28, 2019.
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Mar. 3

Evaluation and Repair of Concrete Buildings: The Tale of Two High-Profile Projects in the US

Time: 4:30 to 5:20 PM
Location: HAMP 1144

Abstract:
The repair of concrete structures presents unique construction challenges compared to new construction. These include the fact that there are often variations in the as-constructed details compared to those shown in design and construction drawings. Moreover, for buildings that have been in service for some time, the aging and deterioration of components can make construction more difficult especially if the building must remain in service during repairs. To describe some of these challenges, this presentation will focus on the evaluation and repair of two high-profile concrete buildings in the US – the Courthouse Square mid-rise building complex in Salem, Oregon, and the Austonian high-rise residential tower in Austin, Texas. The presentation will discuss the nature of design and construction defects that were uncovered during investigation, the types of concrete deterioration that had been experienced during service, and the types of repair and strengthening schemes that were utilized to bring the buildings into compliance with building codes.

About

2019 marks 50 years since Purdue Engineering alumnus Neil Armstrong’s “one small step” inspired the world towards seemingly limitless human and technological achievement. On this historic occasion, Purdue Engineering is proud to launch the prestigious Neil Armstrong Distinguished Visiting Fellows program, which brings highly accomplished and recognized scholars and practitioners to the college to catalyze collaborations with faculty and students. Fellows are individuals who have been eminently recognized for their impact and achievements in engineering or related disciplines, who collaborate with Purdue Engineering faculty members on research projects and initiatives including new research directions, industry engagement, on-campus and online educational efforts, increasing diversity and inclusion, as well as entrepreneurship. Their selections are based on nominations made by faculty and the proposed impact of their research and visit on Purdue Engineering.