



# An exploration of engineering failures related to design, construction, & materials

Please join us for an exploration of engineering failures related to design, construction, and materials. Through case studies in the Mid-Atlantic United States, learn how focused field and laboratory testing and evaluation can lead to early diagnosis and successful resolution of performance concerns with buildings and structures.

You'll also learn how to manage risk with focused review, testing, and verification during design and construction. Beyond technical performance, we'll also touch on business and legal considerations, including the role of a design professional as an expert witness.

Upon completion of this seminar, attendees will be able to:

1. Describe the differences between cause, contributing factors, triggering events, and coincidences in building performance failures, and provide examples of each.
2. Identify four ways that field and laboratory testing can inform the design and construction process to manage risk.
3. Outline a rational process for evaluating the performance impact of design and construction defects.
4. Describe three ways in which the role of an engineer or architect as expert is distinct from their role as a design professional.

**WHEN** **March 21, 2019**  
5:00–5:30 pm Drinks & Appetizers  
5:30–6:30 pm Presentation  
6:30–7:30 pm Networking

**WHERE** **District Architecture Center / Washington DC**  
421 7th Street NW  
Washington, DC 20004

**RSVP** To RSVP, simply send an email to [rsvp@ctlgroup.com](mailto:rsvp@ctlgroup.com). Please indicate the number of people attending. Thank you.