In the past few years, building for natural disasters has been thrust into the public eye after recent tornados wiped out entire cities and took many American lives. Architects must work to stay aware of these challenges when setting out to design safe, strong and durable buildings for tenants and occupants. This lecture will focus on building design and the strength needed to withstand natural disasters such as hurricanes, tornados and earthquakes. The lecture also will:

- Explore current ICC 500 Standard design methodology and how proposed changes for 2016 might affect the design methods and results.
- Discuss ICC 500 coverage of tornado-generated debris and missiles, given there are no current numerical methods to determine damage or failure caused by these high speed missiles.
- Illustrate safe room design methods with examples of wood, masonry and concrete safe rooms.

**Seminar Instructor**—William Coulbourne, P.E., SECB, has a BS in Civil Engineering from Virginia Tech and a Masters in Structural Engineering from the University of Virginia. He is a national expert in wind and flood mitigation and has been involved in FEMA Mitigation Assessment Teams for more than 15 years. Having been involved in every major hurricane and flood disaster since 1995, Bill has investigated failures and mitigation design techniques for thousands of buildings, including residential structures, schools used as shelters, hospitals, and other critical facilities.