



## Dinner & Seminar:

### What's New in Flood Protection?

Wednesday, August 9<sup>th</sup>, 2017 – 5:30 pm

Floods are the #1 natural disaster in the United States. All 50 states have experienced floods or flash floods. Due to climate change and other factors, flood events are increasing in number and intensity. To protect the health, safety, and welfare of homes and their occupants during a flood event, homes must be built into compliance with local, state, and federal codes and regulations. This course describes floodplains and the potential hazards to buildings. Unless there are flood openings that allow floodwaters to flow into and out of enclosures below the Base Flood Elevation, hydrostatic pressure builds up on the foundation walls and can cause major damage. The course also defines the differences in engineered and non-engineered flood openings and their ability to ensure resilient structures. It explains the differences between wet floodproofing and dry floodproofing techniques, and when they are applicable. It also clarifies the regulations, codes, and standards as they relate to sustaining foundations in flood hazard areas. **This course analyzes** the role of building compliance in lowering flood insurance rates and what mitigation solutions are available to existing structures.

#### Learning Objectives:

- Describe floods, floodplains, and the potential hazards to buildings.
- Explain the differences between wet floodproofing and dry floodproofing techniques and acceptable applications.
- Describe the role of flood openings in flood events to ensure resilient structures
- Identify regulations, codes, and standards as they relate to sustaining foundations in flood hazard areas.
- Analyze the role of building compliance in securing lowering flood insurance rates and what mitigation solutions are available.

#### Program Schedule:

5:30-6:00 PM – Social, Cash Bar

6:00-7:00 PM – Dinner

7:00 - 8:00 PM – Presentation followed by Q&A

#### Roland's Seafood Grill

1904 Penn Ave. Pittsburgh, PA, 15222

Cost: Members: \$10, Non-members: \$15, Students: Free

PDH Certificate Upon Attendance

*This is a joint EWRI and Continuing Education Committee event.*

Register at <http://www.asce-pgh.org/> by August 6

#### Sponsor:

#### Contact:

Nur H. Orak: [nho@andrew.cmu.edu](mailto:nho@andrew.cmu.edu)

Sam Shamsi: [sam.shamsi@gmail.com](mailto:sam.shamsi@gmail.com), 412-298-7932

