

## Agenda: Progressive Collapse - A Performance Based Approach

### Day 1 Schedule: Introduction to Progressive Collapse

9:30 – 10:00am: **Breakfast Snacks & Coffee**

10:00 – 11:00am: **Introduction**

- Definition of Progressive/ Disproportionate Collapse
- Historical Progressive Collapse Cases Studies
- Design Philosophy for Progressive Collapse Mitigation

11:00 – 11:15am **Morning Break**

11:15 - 12:45pm: **Code procedures for progressive collapse analysis**

- Tie Force Method vs Alternate Path Method
- New ASCE Disproportionate Collapse Recommendations

12:45 – 1:45pm: **Lunch**

1:45 – 3:45pm: **Introduction to Applied Element Method (AEM)**

- Finite Element Method – Applied Element Method Comparison
- Introduction to Performance Based Design using Extreme Loading® for Structures Software (ELS)

3:45 – 4:00pm: **Afternoon Break**

4:00 – 5:30pm: **Case Studies for Performance Based Design Against Disproportionate Collapse Using the Alternate Path Method**

- Steel Structures
- RC Structures
- CFS structures

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### Day 2 Schedule: Software Demonstration and Hands-On Design Examples

8:30 – 9:00am: **Breakfast Snacks & Coffee**

9:00 – 11:00am: **Hands on Modeling Concrete Structures in ELS**

- Progressive Collapse Example

11:00 – 11:15am: **Morning Break**

11:15 – 12:15pm: **Hands on Modeling Concrete Structures in ELS**

- Progressive Collapse Example

12:15 – 1:15pm: **Lunch**

1:15 – 2:45pm: **Hands on Modeling Steel Structures**

- Progressive Collapse Example

2:45 – 3:00pm: **Afternoon Break**

3:00 – 4:30pm: **Hands on Loading Examples**

- Seismic Loading
- Pressure and Hydrostatic Pressure
- Moving Loads
- Staged Construction
- Blast Loads and Custom Blast Loads

\* Please be advised this is an estimated schedule may be subject to change.