

2018 NGA PGC Security Window Workshop and PEC Security Window Design Training

| Time | Tuesday | Wednesday | Thursday |
|-------------|---|---|---|
| 8:00 AM | Introduction - Opening Remarks - Security Design Overview 15 min break | Design Criteria and Standards - Manmade - Manmade Threats - UFC 4-010-01 (DoD) - ISC Criteria (GSA) - VA, DoS - ASTM, UL, NIJ, ... | Glazing Design - Hazards - Window Types & Constructions |
| 9:00 AM | Introduction to Natural Threats - wind, debris impact - seismic, fire 15 min break | 30 min break | Problem Session - hurricane impact and blast 30 min break |
| 10:00 AM | Current Products - design trends & issues - window types & construction 15 min break | Design Criteria and Standards - Natural - ASTM - ICC 500, ASCE7, ... - ANSI | Frame & Mullion Design - Loads - Punched Windows - Curtainwalls |
| 11:00 AM | Emerging Technologies 15 min break | Computation to Threats - Natural Threats (methods) - Manmade Threats (tools) | Problem Session - wind and blast Anchorage Design - Loads |
| 12:00 PM | Lunch Provided | Lunch Provided | Lunch Provided |
| 1:00 PM | Introduction to Manmade Hazards - Blast, Ballistic, Forced Entry - Electronic (Cyber, EMF, RF) 15 min break | Introduction to Design Methods - static analysis (wind, ...) - dynamic analysis (SDOF, MDOF, FEA) - testing (static, dynamic, ballsitic, FE, ...) | Problem Session - seismic and blast Design Issues for Multiple Threats - system selection - detailing |
| 2:00 PM | Current Products - design trends & issues - hazards 15 min break | 30 min break | 30 min break |
| 3:00 PM | Emerging Technologies | Introduction to SBEDS-W - how to use, inputs, results - reactions, response criteria | Window Retrofits - renew, retrofit, or replace - products - consider costs, maintenance... |
| 4:00 PM | 15 min break Closing Remarks - communication between team members through good specifications | Introduction to Advanced Analysis Problem Session - SBEDS-W & FEA validation | Wrap-up (3.4) |
| 5:00 - 7:00 | Icebreaker Event NGA PGC Workshop | Networking Event PEC Security Window Design Short Course | Evening Free |