

Comments by guests at the WHIP Mid-annual Oct. 28, 2021, meeting (consolidated)

Guests present were **AECOM** – Samantha Krautwurst and Glenn Overcash; **Aon Benfield**-Megan Hart; **ARUP**-Viet Le and Ben Shao; **AXA XL, a division of AXA**-Ioana Dima-West and Joffrain Mathis; **Bechtel** – Sushil Chauhan, Xin Hai, Matthew Liu, and Mohammadreza Sharafbayani; **CB&I Storage Solutions/McDermott** – Greg Soules; **Curtainwall Design Consulting (CDC)**-Henry Yew; **Hiscox**-Kelsey Mulder; **Insurance Institute for Business and Home Safety**-Murray Morrison; **NIST**-Tanya Brown-Giammanco and Marc Levitan; **Permasteelisa** – Guido Lori; **Simpson Strong-Tie**-Doug Allen; **Swiss RE**-Erdem Karaca; **Texas Windstorm Insurance Association**-David Williams; **Walter P. Moore**-Mehedy Mashnad.

Renewable energy

- Wind farm performance for on-shore and off-shore in wind hazard (hurricane, tornado)
- Loads on wind turbines and supports in case of hurricane
- Downtime of wind farm after a hurricane
- Impact of hail on solar panels

Climate change

- What would be the impact on ASCE 7 wind and rain probabilities?
- What is uncertainty in loading due to climate change?
- Should there be a combination of wind and rain hazard including duration?

Pressures and forces on

- Canopy for buildings more than 60 ft.
- Pressures on and shielding due to fins on buildings
- Forces and shielding on open frame structures and pipe racks

Petrochemical industry

- Loads on pipes, cylinders, etc. Can this be done with CFD?
- Roof loads on large storage tanks
- Validation of force coefficients given in ASCE petrochemical loading guide

Vulnerability and Resiliency

- Grouping of buildings/structures in suburban environment; Exposure B
- Extrapolation of research in papers to specific application in practice
- Resiliency of houses and other buildings
- Economics of retrofitting of houses/buildings