

Report of activities of ASCE/SEI Subcommittee on Human Perception of Motion

The Subcommittee held its Annual Meeting on Friday, May 14, 2010, at Structures Congress 2010 at Gaylord Palms Convention Centre, Orlando, FL. The meeting was attended by members drawn from professional engineers, wind engineers, wind tunnel specialists, and academic and researchers. The Subcommittee aims to produce a monograph, tentatively entitled: “*Occupant tolerance to motion in tall buildings*”, to be used as guidelines for practitioners dealing with designing tall buildings for wind-induced building motion. The monograph will focus on:

1. Collate existing information related to the perception of motion in tall buildings.
2. Historical review of the subject matter (includes review of international codes and standards).
3. Summarize the latest state-of-the art thinking (reports) on human perception of motion.
4. Identify critical issues that need to be considered when designing building in different parts of the world, under different wind environmental/conditions and with unique response characteristics (coupled response).
5. Research needs.
6. Final guidelines, recommendations.

The drafting of the proposed monograph will be undertaken collaboratively by a team of contributors each equipped with the necessary expertise and/or practical experience to ensure the content represents state-of-the-art on human perception of motion. A framework and a timeline for completing the proposed monograph have been drawn up with a target completion date in the first half of 2011. The ASCE/SE Tall Buildings Committee will hold an open discussion in Las Vegas to discuss the state-of-the-art thinking on human perception to motion. This discussion will be opened to those interested in contributing and their input will be considered when finalizing the joint ASCE/CTBUH guidelines on human perception to motion for Tall Buildings.

The draft monograph will undergo an independent review process, after which an open discussion session is planned for the ASCE/SEI conference to be held in Chicago in March 2012.

On behalf of ASCE/SEI Tall Buildings Subcommittee on “Human Perception of Motion”.

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