

SEI/ASCE TECHNICAL COMMITTEE ON TALL BUILDINGS

2004 Structures Congress, Nashville, TN
Annual Meeting, Sunday, May 23, 2004, 7:45 pm
The Renaissance Marriott, Nashville

Attendees: Jon Galworthy, Vikas (Vik) Verma, Russel Carter, Andrew Alsop, Chris Letchford, Tracy Kijewski-Correa, Ahsan Kareem, Peter Irwin, Leighton Cochran, Ali Memari, Yukio Tamura, Elizabeth English, Ted Stathopoulos, Arthur Chiu, Hanqing Wu, Alex Ping To, Steven Camposano, Andrew Allsop.

1. Meeting called to order at 7:45 pm.
2. Introduction of members and visitors.
3. Approval of minutes from meeting during 2003 Structures Congress in Seattle, WA with one correction.
4. **Sessions at 2004 Structures Congress:** No sponsored sessions by committee due to late communication regarding the acceptance of our sessions by the organization committee. Other sessions of interest: "International Perspectives on Wind Engineering" (code comparison), "Structural Expression" (Sponsored by Aesthetics Committee).
5. **Sessions at 2005 Structures Congress:** Update on proposed sessions:
 - STATUS UNKNOWN: "Dichotomy of Wind and Earthquake Engineering Design"
 - UNSUBMITTED: "Analysis, Design and Construction of Tall Buildings" (e.g. Taipei 101, Shanghai World Financial and other domestic projects.)
 - UNSUBMITTED: Session co-sponsored by aesthetics and this committee on the proposed WTC rebuilding project.
 - SUBMITTED: "Redundancy and Robustness in the Design of Structural Systems: A Panel Discussion." Panel to include representation from a number of leading structural design firms around the world.
6. **Sessions at 2006 Structures Congress:** To be held in St. Louis (May 18-21), proposed sessions:
 - "Dichotomy of Wind and Earthquake Engineering Design" C. Finley and R. McNamara to organize, A. Kareem to coordinate.
 - "Analysis, Design and Construction of Tall Buildings" Evolution of load and design methodologies. Project Case studies. P. Irwin and J. Galworthy to organize.

- Wind effects committee is proposing a session on role of damping for reducing wind-induced response. Possibility of co-sponsorship with Tall Buildings Committee.
- V. Verma suggested a session on rooftop structures on tall buildings.
- A. Memari suggested a session on role of exterior bracings, cladding systems, envelope/wall/belt systems in lateral resistance. A. Kareem suggested possible involvement of Ahmad Abdelrazaq.
- Tall Building Design Post-9/11: Changes in fireproofing issues, means of egress, progressive collapse, blast resistant design/impact. Check with Committees on Blast, Shock and Vibratory Effects and Fire Protection to avoid overlap.

Session organizers to submit one page abstract by March 14, 2005. A. Kareem to identify moderators for each session, coordinate with other committees (where applicable) and provide follow up reminders to organizers to insure abstracts are submitted on time. 2007 Structures Congress will be in Long Beach, CA.

7. **Committee Growth:** Involvement of younger, up and coming engineers from a number of practicing firms. A. Kareem to contact senior management of the firms to request recommendation. Also should seek representation from practitioners as formal members or friends of the committee: these include Walter P. Moore, Magnusson Klemencic Associates, etc. Also should involve firms active in blast-resistant design, e.g. Weidlinger Assoc. This to be undertaken by A. Kareem.
8. **Co-Sponsored Sub-committees:** E. English reports that subcommittees sponsored by two committees are now being encouraged by Ex-Com of ASCE. As a result, Tall Buildings and Wind Effects may co-sponsor a subcommittee on vibration issues in structures. Interested parties may include Roy Denoon, C. Letchford, T. Kijewski-Correa. Others interested in joining please contact A. Kareem at your earliest convenience. We would like to see participation by a wide spectrum of membership encompassing researchers and practitioners and representatives from wind tunnel laboratories. Should internally organize to determine membership and focus. Could possibly be task committee or apply special project award. T. Stathopoulos to contact Roy Denoon on this item.

A. Kareem proposed a sub-committee on Full-Scale Monitoring to include cataloging of information on monitoring systems, lessons learned. Such information could be readily archived on the committee website. Recommendation that J. Galsworthy lead this effort. This may be a task committee that Wind Effects may jointly sponsor. Others interested in this activity should contact A. Kareem or J. Galsworthy at your earliest convenience.

9. **Tall Buildings in the wake of 9/11:** L. Cochran noted that Hong Kong requires refuge floors, also have interesting aerodynamic properties; E. English

commented that fire protection has been revisited, designs providing separate stair cases for emergency personnel; A. Allsop also commented on rapid egress as a major issue, robustness and redundancy are also being considered in light of design approaches taken in earthquake design; A. Memari highlighted impacts on education and interest in blast resistant design, progressive collapse issues; Y. Tamura emphasized importance of robustness and redundancy, egress are also issues being considered in Japan, did comment on issues of pedestrian effects and liability of owners.

10. **Developments in Tall Buildings Community:** New proposal for World's Tallest Building is Burj Dubai, SOM Project. Height being kept confidential. Taipei 101 crowned World's Tallest in April 2004 over Sears Tower by CTBUH at meeting in Chicago. Trump Tower also slated to go up in Chicago and be tallest building constructed in US since Sears in 1974.
11. **Upcoming conferences:** CTBUH Conference 10/11-13/04 in Seoul, Korea. Special session on wind effects on tall buildings being organized with invited speakers as recommended by A. Kareem. USCWE at LSU in May 31-June 4, 2005. BBA July 2004 in Ottawa, Canada.
12. **Committee website:** Aerodynamics and Wind Effects Committees also have websites. T. Kijewski-Correa has prototyped a website to centralize materials relevant to the committee and its audience. E. English has the original mission statement for committee. In light of copyright issues for PDFs of journals articles, only a list of relevant publications should be provided. Site can be linked by SEI to their committees listing. T. Kijewski-Correa to begin email correspondence with members to refine content of site.
13. **Membership Polices:** E. English commented on new ASCE/SEI policies on membership to committees. All new applicants must fill in applications from web and direct them to Debbie Smith. Committee chair to make recommendation on application to TAC chair which is sent up to Ex-Com. The application process is to be enforced. Term limits are now being strictly defined as 6 year term maximum, with a 2 year wait period before reapplication. Chairmanship has a maximum 4 year term. Discussion of extending control group membership though number of travel supports would remain the same. Decision on this matter will be made shortly and emailed to committee chairs. Control memberships should be used as way to groom the next chair, as per recommendation of existing chair. Chair training sessions are now in place.
14. **Committee Role in Journal Reviews:** For conferences, independently submitted abstracts are invited to identify a technical committee that would then be involved in review process for advisement of Steering Committee. A. Kareem had interest in similar channels for directing papers to appropriate committees for review for SEI Journals. Authors may designate a committee for the review process but it is not guaranteed to make it to the committee. Could this be formalized further to involve the committee further in reviewing journal articles?

15. Meeting adjourned at 9:15 pm and informally reconvened over dinner in the hotel restaurant, eight members and two friends joined the group.