

Minutes
TC 9.12 TALL BUILDINGS
Location: Toronto Hybrid Meeting
Sunday June 26, 2022, 3:30 to 5:30 ET

1. **CALL TO ORDER AND TC 9.12 SCOPE** (Phillips)
 - a. The meeting was called to order by Chair Phillips at 3:45pm ET following technical difficulties.
 - b. TC 9.12 is concerned with the function, operation, energy and human safety for buildings in excess of 300 feet in height. Also included is the determination of requirements related to hydraulics, airflow, infiltration, thermal insulation, water vapor retarders, environmental control, fire and smoke control and maintenance.
 - There were no proposals to change the scope.
2. **INTRODUCTIONS** (Phillips)
 - a. Chair Phillips asked attendees for introductions. There were 15 attendees with 5 of 8 voting members present. Quorum was established. This meeting was conducted in a hybrid fashion with about half of the participants in person.
3. **CHAIR'S COMMENTS AND CODE OF ETHICS COMMITMENT** (Phillips)
 - a. "Commitment to the ASHRAE Code of Ethics – In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity, and respect for others, and we shall avoid all real or perceived conflicts of interests. See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>)
4. **APPROVAL OF LAST MEETING MINUTES**
 - a. Motion by Mark Fly and Seconded by Frank Kohout to approve the January 30, 2022 Las Vegas meeting minutes including friendly amendments. Vote 5-0-0 CV (yes-no-abstain)
5. **LIAISON REPORTS** (Phillips)
 - a. TAC Liaison Brad Cochran
 - Hybrid meeting management tactics
 - a) Discussion on value of hybrid meetings amongst the member highlighted the value to those that cannot attend because of financial or health issues but also the notion that it better enables international involvement. Brad posed question of whether virtual attendees would be willing to pay a nominal fee to attend. General consensus was that hybrid meetings add value, members

- would not be opposed to paying a small fee but low cost technology exists to keep ASHRAE costs down.
- Membership expectations for TC management was discussed that chairs are expected to have previously served as secretary or vice chair.

b. There were no other liaisons present

6. SUBCOMMITTEE REPORTS

a. Program Chair (Frank Kohout)

1. Neither of the two programs submitted for the Toronto conference - "Whole Life Carbon in Big or Tall Buildings" and "Effect of Wind on Building Pressurization in Tall Buildings" - were accepted.
2. Future conferences after Atlanta – Winter 2023 - were stated:
 - a) Summer 2023 – Tampa, FL
 - b) Winter 2024 – Chicago, IL
 - c) Summer 2024 – Indianapolis, IN
 - d) Winter 2025 – Orlando, FL
 - e) Summer 2025 – Phoenix, AZ
3. The tracks for the Atlanta conference were reviewed. The most applicable for the TC are:
 - a) Pathways to Zero Energy Emissions and Decarbonization
 - b) Multifamily and Residential Buildings
4. On June 2nd, a program ideation call was conducted. The outcomes were:
 - a) Luke Leung will submit for Atlanta the seminar, "Whole Life Carbon in Big or Tall Buildings"
 - b) Suzan Sun Yuan will submit for Atlanta the seminar, "Effect of Wind on Building Pressurization in Tall Buildings".
 - c) The proposed seminar "Integration of HVAC Systems Design into a Tall Building" will be submitted by Mehdi Jalayerian for Atlanta. Several people
 - d) volunteered to be presenters (I did not get their names – if you have them please list them.) TC 5.6 - Life Safety - may be a potential co-sponsor.
 - e) "Atriums and Winter Gardens in Tall Buildings" was another potential topic for future (not Atlanta) conference programs.
 - f) The deadline for submitting programs for the Atlanta Conference (Feb 4 – 8, 2023) is Tuesday August 9th.
5. For the Tampa conference, topics may include energy efficiency, energy modeling, and new regulations affecting the use of fuels.
6. It was agreed that the Chicago conference should be a focus of future program efforts due to it being one of the centers of tall building design.
7. Another Program Ideation call will be scheduled before the Atlanta TC meeting.

b. Handbook (Jalayerian)

- All reviews were completed and the final copy has been submitted.

c. Research (Peach)

- Discussion led to plan to hold a separate meeting geared towards refining RTARs. Scott will call an interim meeting to that extent. Below are notes captured in the Las Vegas minutes.

- a) RTAR Pressure relationships in Mega Tall Bldgs Rev1 no action planned
- b) RTAR new Benefits and Detriment to Using Ventilation Openings in the Tall Shafts of Tall Buildings. Should this be moved forward as an RTAR? Scott, Suzan, Dennis and Duncan spoke in support of this. Rick asked if a code change proposal method was investigated as a lower cost path. Committee discussion including that given the multi-jurisdictional variation and the broad segments where these requirements reside would make it very difficult to make individual code change proposals expecting a waterfall effect amongst international codes. Duncan suggests a mix of measured data and simulation will be used. Requirements were developed when buildings were not that tall and that included windows in such shafts. Yoon Ko requested that TC 5.6 Control of Fire and Smoke be provided a copy of the proposal for review (DONE). Duncan also anticipated sharing with 4.3 – Ventilation and Infiltration (discussed at their meeting), 4.10 - Indoor Environmental Modeling (discussed at their meeting) and 9.8 Specialized Building Applications

d. Webmaster (Lisa Ng)

- Lisa is working with staff to gain needed access to post material and meanwhile posting items to basecamp

e. **Action Items**

- Ng – gain TC web access and update documents
- Kohout – host programs s/c meeting
- Peach – host Research s/c meeting
- Phillips – solicit new secretary
- Phillips – finalize Atlanta meeting time

7. **MEMBERSHIP** (Phillips)

- a. Rolling off after this meeting are: Phillips, Jalayerian
- b. Rolling on after this meeting are: Peach, Sun-Yuan
- c. Rick noted that he needs to roll off as a secretary.

8. **NEW BUSINESS** (Phillips)

- a. When is the right time to update the Tall Buildings design guide?
- b. What is the right meeting time? Discussion of different day or time ensued. Given the hybrid nature does open up options, especially to include international members. More discussion needed on this topic.

9. **ADJOURN** (Phillips)

- a. Next meeting is in Atlanta in January
- b. Motion to adjourn by Frank Kohout and seconded by Mark Fly
- c. Adjourned 5:15 ET

MEETING ATTENDANCE (ROSTER AS OF 6/10/22 + GUESTS)

Full Name	Position	Email	Present	Voting
Mr Duncan A Phillips	Chair	duncan.a.phillips@gmail.com	x	x
Mr Scott B Peach, PE	Vice Chair	sp@sp.engineering	x	
Mr Rick M Heiden	Secretary	rheiden@trane.com	x	
Mr Mehdi K Jalayerian	Hndbk Subcom Chair	mjalayerian@esdglobal.com	x	x
Mr Francis J Kohout	Program Subcom Chair	frank.kohout@outlook.com	x	x
Dr Lisa Chen Ng	Webmaster	lisa.ng@nist.gov	x	x
Mr John J Carter	Member	jcarter@cppwind.com		x
Mr Mark W Fly, PE	Member	markwfly@gmail.com	x	x
Mr Luke C H Leung, PE	Member	luke.leung@som.com		x
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