

## **DRAFT MEETING MINUTES TC 9.01, Large Building Air Conditioning Systems**

Tuesday, February 1, 2022 1:00-

### **Subcommittees & Related Meetings:**

**TC 9.1 Program/Handbook/Research Monday 2/1/2022 12:00-1:00**

### **ATTENDANCE - 12**

Jay Eldridge – VM, Mark Fly- VM, John Vucci- VM, Doug Cochrane – VM, Charlie Henck, Phil Trafton, Elizabeth Primeau, Suzan Sun-Yuan, Mark Pavol, Kelly Cramm, John Kuempel, Dennis Wessel

### **MEETING AGENDA**

**Call to Order by Mark at 1:00 pm**

- 1) **Welcome / Introductions** - everyone introduced themselves
- 2) **Administrative**
  - a) **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. <https://www.ashrae.org/aboutashrae/ashrae-code-of-ethics>.)
  - b) **Scope** - TC 9.1 is concerned with the general design concepts of the HVAC systems that are utilized for the conditioning of large buildings, including the integration of components into centralized and decentralized systems.
- 3) **Determination of Quorum**
  - a) Voting Members = 6+ 1 Member non quorum  
  
all voting members in attendance. Quorum reached  
  
Rolling on: Jay Eldridge, Kelly Cram
- 4) **Review and Approve Minutes from 2021 Virtual Winter Meeting - motion by John to approve Summer 2021 minutes second by Phil Passed Unanimously**

New email asktac@ashrae.net . for TC questions. Also [sh9@ashrae.net](mailto:sh9@ashrae.net) **for section head**

Strategic plan extended by 1 year to 2025 because of pandemic

Abstracts Toronto due February 6, 2022

Seminar proposals due February 6, 2022 per

Webmaster also becomes basecamp manager

5) **ASHRAE Liaison Reports:**

- a) Society (e.g., TAC, Standards, Research, Handbook)
  - i) Brad - Section Chair- Need to update our roster and  
ASHRAE assigns aliases to committee members. Hybrid  
meetings have not been going well, but TAC still wants  
to continue with them. Need better methods to make  
them work. 3 new functional groups – building resiliency,  
building decarbonization. TGRAST reactive air  
subsurface group (testing electronic filtration) Mandate  
to develop method of test. TC9.8 was approved for  
name change. Chair of TAC pushing TAC members to  
assist the TC's to perform better.

6) **TC Subcommittee Reports:**

- a) Programs (Molnar) - since no chair in attendance. Went over what had already been proposed and added a couple
- b) Kelley – Vegas HVAC challenges & opportunities. Perhaps another editor
- c) John Molnar – grow facilities?
- d) Pet relief for airport (indoor facilities and plants) Ken Warren Seatac airport. Asked for email outlining everything. Kelley may have something as well.
- e) Toronto Controls over energy. Make systems hard to operate. 90.1 seems to be adding more controls
- f) Toronto – impacts of ETF considerations and use of ASHRAE guidelines, the good and bad- Phil can put something together with multiple building types. Perhaps Bill Banfleth from ETF.  
Old topic was design challenges for multifamily buildings

Note: Mark Pavol says that Vegas will have a topic on mixing boxes

ACTION: confirm with John as program chair, Kelley, Ken Warren if any further developments on this proposal

- g) Honors and awards (Duda) - Need a new chair
- h) Membership / Upcoming Roster Revisions (Fly)
  - i) 

<u>Rolling off</u>	<u>Roll on</u>
(1) Lee Millies	(1) Kelly Cramm
(2) John Vucci	(2) Jay Eldridge
(3)	(3) Dennis Wessel
  - ii) Conversion of Provisional to Corresponding:  
Confirm final slate – Chair – Fly, VC – Cochrane, Sec – Trafton (VM)

- iii) Are other chairs willing to continue?
    - (1) Program- Need to find a new chair
    - (2) Handbook- Jay
    - (3) Research New Chair needed,
    - (4) Standards- Charlie
    - (5) ACTION: John is asking for a replacement for programs.
    - (6) Mark to confirm if roster changes above have been done
- i) Standards (Henck)
  - i) Guideline 16 – recommend by Phil, Dennis . Last Aug Charlie went over errata. One reference needs to be updated (can be done by cognizant party).
  - ii) Motion to reaffirm Guideline 16 by Charlie second Doug. No neg votes, no abstentions . Motion passes . 5-0-1 Chair NV
  - iii) CFD modelling program was held on mixing boxes during Vegas meeting. Mark still to do RTAR on Stds for mixing boxes if needed but needs assistance. A lot of discussion on no standard or method of test for mixing again during this meeting..
  - iv) Guideline 22 update – Jon Vucci said we’d put it out for ppr to chair
  - j) Handbook Subcommittee (Eldridge): Currently about 6 months behind. All work to be done on line through portal and/or basecamp. All editors will try to log on and start making changes between now and the next meeting to be sure they are able to do so.
  - k) *Research Subcommittee Report. (Molnar?)* - no report. Confirm who chair is
- 7) **Training and Education Committee** (Henck) - no longer on committee. Delete from reports
- 8) **Publications** (--) no report
- 9) **Website** (Elizabeth Primeau) – **Up to date at this time.**
- 10) **TC/PC Liaison Reports**
  - a) TC 4.03 – Ventilation & Filtration (S. Duda) - no report
  - b) SSPC-300 Commissioning Process for Building & Systems (Blalock) - no report
  - c) TC 5.1 – Fans (Eldridge) - New handbook in progress and possible new standards.
  - d) TC 5.06 – Control & Smoke (--) no report
  - e) TC5.07- Clark county has proposed no Evaporative cooling for new construction. TC2.8 has an RTAR about water use and how it may be used in some ways that are actually better than not using the water.
  - f) TC 7.01 Integrated Building Design - no report
  - g) TC 7.09 – Building Commissioning (Blalock) - no report
  - h) TC 8.07 -Variable Refrigerant Flow (--) no report
  - i) TC 9.08 – Specialized Building Applications (Molnar)

- j) TC 9.09 Mission Critical -(Mark Pavol) - Don't want data centers to fall under 90.1. Trying to steer away for low gdp refrigerants.
- k) TC 9.10 – Laboratory Systems (Cramm/Henck) - meet thurs
- l) TC 9.12 – Tall Buildings (Wessel) - RTAR proposed to study the energy impact from openings at the top of elevators, stairs.
- m) SSPC 15 Mechanical Refrigeration Safety (Vucci / Johnson) Quite a bit of discussion, but I missed most of it. Can I get a report to put into the minutes
- n) SSPC 62 – Ventilation for IAQ (Trafton) - Attended part time but no report
- o) SPC 188 Legionella in HVAC (-) no report
- p) MTG RAC – Guide for Maintenance of Chiller plants (Vucci) - training program with unep. Guide for 3<sup>rd</sup> world countries. Maintenance guide. Howie took over from John.

#### 11) Old Business

Status of possible TC 9.1 & 9.8 merger? – 9.8 is changing their name and merger now unlikely.

- a) Publications Request we be cognizant revision of “HVAC Simplified”- subcommittee Cramm-Chair, Henck. Awaiting responses from staff to proceed.

#### 12) New Business - ASHRAE looking at putting out guidelines on electrification thru decarb task force (especially california, new york). More desire for heat pumps. California out of nat. gas by 2030 and incl fuel gas by 2050 as per Phil. Need to update our chapters including decarbonization. Questions can be sent to [decarb@ashrae.org](mailto:decarb@ashrae.org).

#### 13) New Task group being formed for international standards interaction and looking for tc involvement next Meeting – Toronto face to face with remote component

#### 14) For Good & Well Being - went around the virtual room

#### 15) Adjourn Motion to adjourn by Kelly second by Phil . Meeting ended at 6:13 pm