

Meeting minutes TC 9.01, Large Building Air Conditioning Systems

Tuesday February 2, 2021 1:00-3:00 pm

Subcommittees & Related Meetings:

TC 9.1 Program/Handbook/Research Tuesday 2/2 12:00 pm–1:00 pm

Report out below in main meeting

MEETING AGENDA

Call to Order - meeting called to order by Jay at 103 pm

- 1) **Welcome / Introductions** . 26 participants including Rick Heiden – stds liason and Brad Cochran - tac section 9 chair.

List of attendees: Art Giesler, Howard McKew, Gene Strehlow, Ibrahim Semhat, Kelley Cramm, Liz Primeau, Matt Middlebrooks, Peter Demercurio, William Lull, Phil Trafton, Ken Warren, Udaa, John Weems, Al Blalock, Erik Chisholm, John Vucci, Charlie Henck, Dennis Wessell, Lee Millies, Mark Pavol, Soph Davenberry, Jay Eldridge, Mark Fly, Doug Cochrane

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

Jay Eldridge - Chair - present

Mark Fly – VC - present

Doug Cochrane – Secretary - present

Jeff J Traylor Non

Quorum - absent

Stephen W Duda -absent

Lee Millies - present

Shannon D. Ramey - absent

John I Vucci - present

Quorum reached 5 present

- 4) **Review and Approve Minutes from 2020 Annual Meeting** . Dennis did draft minutes since Doug had conflict for first half with double booking and chairing other meeting. **Motion to approve summer 2020 draft minutes by Dennis Wessell 2nd Mark Fly 0 negative votes, 0 abstentions, motion passes**
- 5) **Agenda Comments and Updates** - William Lull to discuss liaison with 2.3
- 6) **Chairman's Comments and Section 9 Report**
- 7) **ASHRAE Liaison Reports:**

- a) Society (e.g., TAC, Standards, Research, Handbook) Stds – Rick GPC22 look at for help. Instrumentation for cw systems. Nothing significant
- b) Guideline 16 – reaffirm, reuse or withdraw. **Action: charlie to send to Dennis for review**
- c) Selecting outside dampers for economizers. Kelley says some manufactures can't do. Will be more discussion in stds
- d) Guideline 0- commissioning
- e) Std 15-
- f) TAC chair – Brad Cochran hear to learn. New activity report due end of this week- note it was submitted last week. Roster due end of this week. 3 rotating off, pcm moving up. Epidemic task force – look over and review. Faq and 1 pagers. If any lapses please let him know

Research- no additional funding with no expo. Continue to submit rtars. Summer meeting up in air. Pretty good chance it will be virtual. Next winter in person. Opportunity to merge 9.1 and 9.8. to make tcs stronger kelley – we voted couple of years ago to merge. What happened?

Motion: tc 9.1 to merge with tc 9.8 upon their approval by Dennis. 2nd by john. 0 negative votes, 0 abstentions. Motion passes unanimously.

Will need new title, purpose and scope for each. Brad to talk to tc 9.8 chair rich vehlow about this. Subcommittee of 2 tc's to put together new title, purpose, scope

ACTION: Mark Fly, Dennis Wessel, Ibrahim Semhat, Phil Trafton to draft new title, purpose,scope for possible merged tc
Tc 9.4 education and tc 9.8 applications just merged.

8)

9) **TC Subcommittee Reports:**

- a) Programs (Molnar) - Kelley – Vegas HVAC challenges & opportunities. Perhaps another editor
- b) John molnar – grow facilities?
- c) Pet relief for airport (indoor facilities and plants) Ken Warren seatac airport. Asked for email outlining everything. Kelley may have something as well.
- d) Abstracts for Phoenix due Feb 15
- e) Tc 9.1 is sponsoring seminar 19 ASHRAE HQ Feb 10 @ 3pm. Dennis to introduce

10)

- i) Future Meetings - TBD
- b) Honors and awards (Duda) _no report as not in attendance
- c) Membership / Upcoming Roster Revisions (Fly)
 - i)

<u>Rolling off</u>	<u>Roll on</u>
(1) Jay Eldridge	(1) Mark Pavol
(2) Jeff J Traylor	(2) Ken Warren
(3) Stephen W Duda	(3) Dennis Wessell
 - ii) Conversion of Provisional to Corresponding. ALL PCMs in attendance to move up. All will be reached out to.
 - iii) Need Volunteers for:
 - (1) Handbook - Jay Eldridge
 - (2) Secretary (if Doug moves to VC) - Phil Trafton (VM),
 - (3) Chair – Mark Fly, Vice Chair – Doug Cochrane
 - iv) Are other chairs willing to continue? Need to confirm Kuempl for Program and Molnar for research as not in attendance. All others appear to stay the same
- d) Standards (Henck)
 - i) Guideline 16-Selecting Outdoor, Return and Relief Dampers for Air Side Economizer Systems
 - (1) Do we need to revise or reaffirm it? 2018 vs 2014 vs 2010 delayed to june. References 2015 handbook. Sent to mark weber. Ref#4 deleted, ref#3 updated new. not technical details. Mark pavol scope of work does not cover air mixing guideline or method of test for air mixing. Kelley working on rtar.
 - (2) Rick –committee link for submission form
 - ii) Guideline 22 update – nothing more than ricks report
- e) Handbook Subcommittee (Need Handbook Chair): Jay Elridge to assume
- f) Reviewers ch1- tbd, ch2- john k, ch-3-ken w, ch4-kelley k, ch5-phil t. authoring portal authoring.ashrae.org but need email to get access. Contact heather kennedy at hkennedy@ashrae.org

11) Are chapters uploaded to basecamp? ACTION: confirm chapters are uploaded

- a) *Research Subcommittee Report. (Molnar)* - not in attendance

12) **Professional Development Committee** (Henck) - now called training and education. No longer on it

- a) **Publications** (--) Cognizant revision to “HVAC Simplified” used as textbook. Used to be 7.1,7.2, geothermal. Fer to stds out of date 2006 original. Steve kavanaugh wrote it. Done in 2-3 months. On tech street 2016,2019 errata 250 pages. Academic better suited
- b) Action – soph davenport, erik chisholm (if req’d and charlie henck to look at this

13)

14) **Website** (Elizabeth Primeau) - everything updated except minutes. Will post what she is given.

15) **TC/PC Liaison Reports**

- a) TC 4.03 – Ventilation & Filtration (S. Duda) - no report
- b) SSPC-300 Commissioning Process for Building & Systems (Blalock) - no real changes
- c) TC 5.1 – Fans (Eldridge) nothing. Research installation effects
- d) TC 5.06 – Control & Smoke (--) Phil trying to get on
- e) TC 7.01 Integrated Building Design - used to be Rachel- no report
- f) TC 7.09 – Building Commissioning (Blalock) - no report
- g) TC 8.07 -Variable Refrigerant Flow (--) no one attended
- h) TC 9.08 – Large Building Applications (--) Kelly did not attend
- i) TC 9.09 Mission Critical -Mark Pavol redoing thermal guidelines, sea salt corrosion, rp on cfd modeling. Jay says looking at prevailing winds for air cooled chillers
- j) TC 9.10 – Laboratory Systems (Cramm/Henck) - labs several programs. Air change rates, ventilation effectiveness. Lab guide redesign vs handbook. Vucci said older handbooks had more info. Guide is practical
- k) TC 9.12 – Tall Buildings (Wessel) lots going on and doing well. Control of viruses in tall buildings
- l) SSPC 15 Mechanical Refrigeration Safety (Vucci / Johnson) -
 - (a) SSPC 62 – Ventilation for IAQ (Trafton) - Phil said it meets after us. Will have update next meeting
- m) SPC 188 Legionella in HVAC (-) Lee no longer on committee
- n) MTG RAC – Guide for Maintenance of Chiller plants (Vucci) - not enough time. Part 2 writing chapters

16) Old Business - none

17) New Business William Iull liaison to 2.3. Steve Duda has new contact info. Teaching at southern illinois university. Would not make meetings as teaching class.

18) Next Meeting – summer meeting phoenix or virtual - tbd

19) For Good & Well Being – skipped due to time

20) Adjourn - motion by John Vucci, second by Dennis Wessell. At 308 pm meeting adjourned.