



**Agenda**  
**TC 5.3 Room Air Distribution**  
**2020 Winter Meeting Agenda**  
**1:00-3:30 PM, Tuesday February 4, 2020**  
**Hilton Orlando, LL, Orange E**

- 1. Call to Order/Welcome K. Gebke  
 Kevin G (Chair) calls to order 1:00pm.
- 2. Introductions/Attendance Sheet K. Gebke  
 Introductions made around room.

- 3. Verify Quorum R. Johnson

Voting Members	Present?	Rolling Off Voting?	Rolling ON Voting?	YEA
Kevin Gebke (Chair)	Y	Roll OFF		
David Johnson	Y	Roll OFF		
James Kline	Y	Roll OFF		
Mike Koupriyanov	Y	Roll OFF		Y
Fred Bauman	N			
Curtis Peters	Y			
Chris Lowell	Y			
Steven Purdie	Y			
Arsen Melikov	N			
Tom Rice	N			
Lauren MacGowens (should be transferred to Jenn Kane at AHRI)	N (get email)	Roll OFF	Roll ON? (Jenn Kane?)	Y
Brandon Bates	Y			
Bob Persechini	Y			
Byron Hagan	Y			

- 4. ASHRAE Code of Ethics Commitment K. Gebke

*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>.)*

- 5. Review of Agenda K. Gebke

- 6. Announcements and Section 5 discussion K. Gebke  
 (1:05pm – 1:27PM)  
 - Larry Smith makes announcements about Section 5. "TC's should have a 5-year plan."  
 - In his opinion, structure of Section 5 likely does not need to be reorganized.  
 - TC 5.2 is moving towards a digital webmeeting approach.  
 - TC discussed merits of 'open webmeetings'. How to advertise it and whether or not it is viable to



- invite anyone into it to keep things running smoothly.
- Larry took a survey of TC 5.3's demographics (# with engineering degree, # with P.E., # who are manufacturers, # who are contractors, # in academia, etc.)
- "How do we mix with SPC55 and TC2.1 since we meet at the same time?"

- "How do we get new younger members onto the committee? Mentorship program? This is a problem 5.2 is struggling to do."

- Section Head documents will be added to Basecamp

7. Membership Report

R. Johnson

(1:27PM – 1:31PM)

- **Kevin Gebke, Jim Kline, Mike Koupriyanov, David Johnson** will roll OFF in July 2020.
- **Ryan Johnson** to roll ON as voting member.
- AHRI representative to speak to **Jennifer Kane** to roll ON.
- **Krishnan Viswanath** to roll ON as a voting member.
- **Gus Faris** to roll ON as a voting member.
- Ryan to follow up with Kevin Gebke and Mike Filler for historic membership sheets

(2:05PM – 2:09PM)

- Starting in Summer 2020:
  - o Kevin Gebke will roll OFF as Chair
  - o Curtis Peters -> Chair
  - o Ryan Johnson -> Vice-Chair
  - o Jose Palma -> Secretary
  - o David Johnson -> Handbook

8. Research Subcommittee Report

C. Peters

(1:31PM – 1:55PM)

- a. RP-1666 – Passive Beams with Displacement Ventilation (R. Zimmerman)  
Motion for committee vote to approve discussion of research proposal. **Seconded. No discussion.**  
9 YEA (including chair)  
0 NO  
2 NOT Present
- b. RP-1741 – Fan Coils (B. Hagan)  
Motion for committee vote to approve discussion of research proposal. **Seconded. No discussion.** Applause for # of rewards and papers that came out of this research.  
9 YEA (including chair)  
0 NO  
2 NOT Present
- c. RP-1819 - CO2 Demand Control Ventilation in Multiple Zone VAV Systems with Multiple Recirculation Paths
- d. RTAR-1882- Procedure for Estimating Occupied Space Sound Levels in the Application of UFAD Air Terminals and Air Outlets  
Chris Burroughs to lead on this. Curtis to send along documents to get a work statement on this.



e. New research  
Curtis mentioned the 4-5 new research ideas to the committee. See Research subcommittee minutes for more details.

(1:45 – 1:54 PM) Impromptu discussion on systems that mix supply air paths (cold air with recirculated air). What happens? Practical examples come up in building codes in Washington State. Cannot use CO2 tracers because CO2 is inherently a variable in the mixing system.

Kevin Gebke would like to make ad hoc subcommittee to take further action on this issue.

David John gave status update of results of RP-1546. Results added to Applications Handbook. Article published in ASHRAE Journal.

9. Standards Subcommittee report

R. Zimmerman

(1:55PM – 2:00PM)

- a. Standard 70 MOT Diffusers (J. Palma)  
Had to adjust workplan recently. PR for Fall 2020. On schedule to publish before Winter 2021.
- b. Standard 79 MOT Fan Coils (B. Hagan)  
Membership in process to be changed. First draft to be ready for Austin, Summer 2020. PR for Fall 2020. Publish by Winter 2021.
- c. Standard 113 MOT Room Air Diffusion (R. Johnson)  
Vote for Public Review in Summer 2020. PR for Fall 2020. Publish by Winter 2021.
- d. Standard 129 Air Change Effectiveness (D. John)  
David John is getting this standard back together.
- e. Standard 130 MOT Terminal Units (R. Zimmerman)  
Vote for Public Review in Summer 2020. PR for Fall 2020. Publish by Winter 2021.
- f. Standard 200 MOT of Chilled Beams (Mike Koupriyanov)  
Current standard is complete. At this time does not look like there is need for 'continuous maintenance'.

10. Handbook Subcommittee Report

J. Palma

(2:00PM – 2:04PM)

Systems and Equipment revisions underway. Handbook had confusion about our process of repeating content in multiple handbook editions (Applications + Fundamentals + Systems & Equipment). Fundamentals chapter was completed in this sessions.

Jose Palma makes motion for TC to vote to approve Fundamentals 2020 for publish. David Johnson Seconded. Vote:

- 9 YEA (including chair)
- 0 NO
- 2 NOT Present

Handbook to meet ONLY Saturday for Austin Summer 2020 Conference.

11. Programs Subcommittee Report

B. Persechini

(2:09PM – 2:16PM)

Identified 7 programs in Kansas City (Summer 2019). Four were submitted. One was accepted. It was presented today (Feb 4) and had great turnout.

The programs that were rejected did not have systematic reason why. Just standard rejection.

Game plan: Three that weren't accepted for Orlando (Winter 2020) will be resubmitted for Austin (Summer 2020). Must be submitted by February 10<sup>th</sup> for consideration for Austin.

Other programs Must be submitted by March 18<sup>th</sup> for consideration for Chicago.



12. Webmaster Report K. Gebke  
(2:16PM – 2:17PM)  
No discussion
13. Honors and Awards M. Hosni  
(2:17PM – 2:17PM)  
Get Kevin Gebke and Mo Hosni ideas for honors or awards.
14. Historian D. John  
(2:17PM – 2:19PM)  
Please forward picture of previous committee members to David John.  
A Basecamp folder has been added with historic pictures and videos.
15. Liaison Reports K. Gebke
- a. Standard 55 Thermal Comfort (MK)  
(2:19PM – 2:21PM)
    - o 55 had lots of discussion for research on ceiling fans. Increase velocity. Increase Temp. No addendum has yet been proposed though.
    - o They will change vertical air temperature heights to “# of degrees per foot”. The new values will be higher than existing.
    - o They are removing the Graphical Method graphs.
  - b. Standard 62.1 Ventilation (D. Int-Hout, K. Shifflett)  
(2:21PM – 2:28PM)
    - o The next version of 62.1 in 2021 or 2022 will redo section 5, 6, 7 in terms of formatting. Keep this in mind for Handbook and other standard.
    - o Internal discussion on outdoor air requirements. Committee uncertain on what direction 62.1 is taking it.
  - c. Standard 90.1 Energy (G. Faris)  
(2:28PM – 2:29 PM)
    - o Gus will roll off as consultant soon.
    - o Talk of duct leakage and energy loss due to it.
  - d. Standard 170 Healthcare Facilities (J. Palma)  
(2:29PM – 2:31PM)
    - o There is not ‘uniform location’ for Laminar Diffusers in practice.
    - o They have found that when instrumentation tables are outside the range of Laminar Diffusers they have little to no movement and can have higher contaminant rates.
  - e. Standard 215 Air Leakage (G. Faris)  
(2:31PM – 2:33PM)
    - o Leave this standard on the schedule. Still figuring out issues with how duct leakage incorporates terminal units in practice.
  - f. TC 2.6 Sound and Vibration (C. Peters/R. Zimmerman)  
(2:33PM)
    - o No discussion
  - g. AHRI 885 (D. Int-Hout)  
(2:33PM – 2:35PM)
    - o A couple of tweaks. But nothing radical.
    - o A meeting will be scheduled for this standard soon.
  - h. TC 5.2 Duct Design (K. Gebke)  
(2:35PM – 2:37PM)
    - o Content on terminal leakage may want to be removed from 5.2’s handbook chapters.
  - i. AHRI Terminal Units (K. Shen)



(2:37PM – 2:41PM)

- o SPC 79 is open. AHRI 440 will open soon.

j. AHRI Fan Coils (L. Zelinski)

k. AHRI Chilled Beams (L. Bulookbashi)

l. AHRI TCOS (R. Zimmerman/K. Peterman)

m. GPC 36 High Performance Seq of Op for HVAC Sys (G. Faris)

(2:41PM – 2:44PM)

- o Have an approved addendum to include motor sequences

n. MTG.ACR (J. Palma)

o. MTG.CEA (J. Megerson)

16. Other business

K. Gebke

(2:44PM – 2:48PM)

- o Jose Palma will be attending MTG-ACR: “Air Change Rates”.
- o Jim Megerson will be attending MTG-CEA: “Controlled Environments for Agriculture”, primarily indoor grow facilities.

17. New business

K. Gebke

(2:48PM – 2:49PM)

- Picture taken for posterity.

18. Adjournment

K. Gebke

(2:49PM)

- Adjourned