



Agenda
TC 5.3 Room Air Distribution
2020 Summer Meeting Agenda
12:00-2:30 PM CDT, Tuesday June 16, 2020
Virtual Meeting

- 1. Call to Order/Welcome K. Gebke
- 2. Introductions/Attendance K. Gebke
- 3. Verify Quorum R. Johnson
(1:13PM)
9 out of 13 voting member present. See Membership Report below.
- 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>.)

(1:15 PM)
Code of Ethics read aloud

- 5. Review of Agenda K. Gebke
(1:15 PM)
Agenda Reviewed
- 6. Announcements and Section 5 discussion K. Gebke
(1:15 PM)

Announcements by Larry Smith:

- reorg@ASHRAE.net will go to Larry Smith, if any members have questions about ASHRAE reorganizational effort.

- High Tower award: send nominations. Not often a lot of applications usually come in.

- Recommend advertising to YEA members. TC 5.3 could improve on this.

Announcement by Mo Hosni:

- Re-emphasizes High Tower award. Reach out to Mo Hosni if you need help.

- 7. Membership Report R. Johnson
(1:22PM)

Member	Present?	Rolling Off Voting?	Rolling ON Voting?
Kevin Gebke (Chair)	Y	Roll OFF	



David Johnson	Y	Roll OFF	
James Kline	Y	Roll OFF	
Mike Koupriyanov	Y	Roll OFF	
Fred Bauman	-		
Curtis Peters	Y		
Chris Lowell	Y		
Steven Purdie	Y		
Arsen Melikov	-		
Tom Rice	-		
Lauren MacGowens (should be transferred to Jenn Kane at AHRI)	N (get email)	Roll OFF	Roll ON? (Jenn Kane?)
Brandon Bates	Y	-	-
Bob Persechini	Y	-	-
Ryan Johnson	Y		Roll ON
Krishnan Viswanath	-		Roll ON
Gus Faris	Y		Roll ON
*Roll OFF/ON begins August 1, 2020			

New Titles:

- Curtis Peters = Chair + WebMaster
- Ryan Johnson = Vice-Chair + Research
- Jose Palma = Secretary
- David Johnson = Handbook

8. Research Subcommittee Report
(1:26 PM)

C. Peters

- a. RP-1666 – Passive Beams with Displacement Ventilation (R. Zimmerman)
Project Complete
- b. RP-1741 – Fan Coils (B. Hagan)
Project Complete
- c. RP-1819 - CO2 Demand Control Ventilation in Multiple Zone VAV Systems with Multiple Recirculation Paths
Zacc Poots: Results came as expected. Parallel Box came out better energy performing than Series but did not consider leakage, and did not consider dynamic control sequence on series box...assumed constant volume.
- d. RTAR-1882- Procedure for Estimating Occupied Space Sound Levels in the Application of UFAD Air Terminals and Air Outlets
Waiting on work statement from Chris Burroughs. Curtis to follow-up with Chris B.
- e. New research
 - o Research on Spiral duct grilles performance. How to test. – K Gebke/L Smith
 - o Displacement for Pre-K Applications – 2021, contact = Katherine D’Avignon
 - o Displacement w/ Radiant Heat for Pre-K Applications – 2022 = Katherine D’Avignon
 - o Air Curtain research delayed due to COVID
 - o COVID-related research. Interim Sub-committee will do literature review in next 60-90 days:



- Is there potential for virus to reach a return grille?
- Is there potential for virus to mix through room based on air distribution method?
- How does TC 5.3 fit with the rest of ASHRAE’s research on this topic
- Kishor K: Recommends looking at Ventilation Effectiveness, not Air Change Rate, based on existing research.
- Must be careful on scope. How large?
- Craig Wray: Can we as TC 5.3 provide technical guidance for ventilation to reduce death count in high-risk environments?
- Duncan Phillips: There are things our committee can contribute with our expertise to the COVID discussion. Some questions we can answer immediately with our expertise that others just don’t know. For example, we know using high-ceiling UV with a displacement system is not useful.
- Craig Wray: Ad-Hoc Research Sub-Committee should develop a 1-page statement to distribute to TC 5.3. If main committee agrees we send it as a package to ASHRAE. Long-term care homes should be a focus. Existing guidance is thin. Try to focus on near-term because time is critical. Can save lives.
- Brian Krafthefer: Recommends reaching out to TC 2.4
- Additional volunteers for ad-hoc committee: Mike Koupriyanov, Gus Faris, Kishor Khankari, Frank Cuaderno, Zahra Sardoueinassab, Duncan Phillips
- Kishor was ‘nominated’ as chair of ad-hoc committee.
- Kevin will send formal email to committee after call to ask for participation.

9. Standards Subcommittee report
(2:03 PM)

R. Zimmerman

- a. Standard 70 MOT Diffusers (J. Palma)
 - i. Standards Committee gave them warning to complete standard in order to maintain ANSI accreditation.
 - ii. Craig Wray, Liaison, will talk to Jose Palma later today.
- b. Standard 79 MOT Fan Coils (B. Hagan)
 - i. Met in Orlando and set up task list. There are five changes to be made.
 - ii. Updating references. Making update to sound testing.
 - iii. They are meeting this Friday, June 19 2020.
- c. Standard 113 MOT Room Air Diffusion (R. Johnson)
 - i. Will meet on July 20. Will vote for public review.
- d. Standard 129 Air Change Effectiveness (D. John)
 - i. David John wants to bring this back on. It has already been voted on to open.
- e. Standard 130 MOT Terminal Units (R. Zimmerman)
 - i. Progress continues. Refining MOT for accuracy

10. Handbook Subcommittee Report

J. Palma

- a. There was no Handbook sub-committee this time around. Fundamentals was already head of schedule.
- b. David Johnson will take over this responsibility starting August 1 2020
- c. Add Brian Krafthefer to email list for Handbook.

11. Programs Subcommittee Report

B. Persechini

- a. Bob P has long list of proposed seminars for Chicago 2021. Requesting confirmation from speakers and session chairs if they still want to do them.



- b. Frank C: Their presentation is ready, but would prefer to NOT submit if Chicago will be Virtual.
- c. Push for COVID-related presentation for Winter Chicago 2021? Should ad-hoc research committee's results turn into seminar?
- d. Byron H: A paper will be presented on Monday, June 22 8am. Related to RP-1741: UNDERSTANDING FAN COIL COMPONENTS AND HOW THEY RELATE TO ENERGY CONSUMPTION AND ENERGY MODELING.
- e. All virtual seminars can be watched at any time. Not just at start time.

12. Webmaster Report K. Gebke
(2:41 PM)

- Kevin will update presentations available on website and Basecamp.

13. Honors and Awards M. Hosni
(2:41 PM)

- See notes at top of minutes.

14. Historian D. John

15. Liaison Reports K. Gebke

- a. Standard 55 Thermal Comfort (MK)
Graphical Method to be removed from Standard.
Meeting is later this week.
- b. Standard 62.1 Ventilation (D. Int-Hout, K. Shifflett)
No comments
- c. Standard 90.1 Energy (G. Faris)
2019 version is published.
User Manual being worked on.
Gus has rolled off as consultant and will not be corresponding after this meeting.
Some discussion of standardizing leakage for terminals
- d. Standard 170 Healthcare Facilities (J. Palma)
No comment.
- e. Standard 215 Air Leakage (G. Faris)
Was completed 2 years ago.
Army Corp of Engineers looking closely to use 215 for their facilities.
May be coming up for re-affirmation or revision in next year or two.
- f. TC 2.6 Sound and Vibration (C. Peters/R. Zimmerman)
Talked about the RTAR for underfloor sound they are co-sponsoring with us.
- g. TC 5.2 Duct Design (K. Gebke)
Main meeting for 5.2 starts immediately after this one. 3:30PM EST.
- h. AHRI Terminal Units (K. Shen)
No updates.
K.Shen no longer works for AHRI.
- i. AHRI Fan Coils (L. Zelinski)
- j. AHRI Chilled Beams (L. Bulookbashi)
Chilled Beams program still needs 3rd party lab to participate
- k. AHRI TCOS (R. Zimmerman/K. Peterman)
- l. GPC 36 High Performance Seq of Op for HVAC Sys (G. Faris)
- m. TC 9.6 Research (Jose P.)
- n. MTG.ACR (J. Palma)
Kishor K: Exploring the usefulness and history of "Air Change Rates".
Submitted program for Winter meeting.
- o. MTG.CEA (J. Megerson)



Working on research/literature review of everything at this moment

- | | |
|--|----------|
| 16. Other business
(2:58 PM)
None. | K. Gebke |
| 17. New business
None | K. Gebke |
| 18. Adjournment
Adjourned at 2:59 PM | K. Gebke |



Log of Virtual Chat during meeting (All times EST):

From M. H. Hosni to Everyone: 01:00 PM

Mo Hosni present

From Kevin Gebke to Everyone: 01:00 PM

Kevin Gebke present

From David Johnson to Everyone: 01:00 PM

David Johnson present

From Mike Koupriyanov to Everyone: 01:00 PM

Mike Koupriyanov present

From Me to Everyone: 01:00 PM

Ryan Johnson present

From Brian Rock, KU to Everyone: 01:00 PM

Brian Rock, KU, hvacman@ku.edu present

From Chad Huggins to Everyone: 01:01 PM

Chad Huggins present

From Curtis Peters to Everyone: 01:01 PM

Curtis Peters present

From Frankc to Everyone: 01:01 PM

Frank Present

From Randy Zimmerman to Everyone: 01:01 PM

Randy Zimmerman present

From zahras to Everyone: 01:01 PM

Zahra Sardoueinassab present

From Andrey Livchak to Everyone: 01:01 PM



Andrey Livchak present

From Jim Kline to Everyone: 01:02 PM

Jim Kline present

From Osama Khayata to Everyone: 01:02 PM

Osama Khayata present

From bhagan to Everyone: 01:03 PM

Byron Hagan is present

From Brian Krafthefer to Everyone: 01:03 PM

Brian Krafthefer Present

From Katherine D'Avignon to Everyone: 01:03 PM

Katherine D'Avignon present

From Lsmith to Everyone: 01:03 PM

Larry Smith Head Section 5

From Kishor Khankari to Everyone: 01:03 PM

Kishor Khankari present

From Charles's iPad to Everyone: 01:03 PM

Charles Dorgan

From Toro-Aire Inc to Everyone: 01:03 PM

Zacc Poots

From Chris Lowell to Everyone: 01:04 PM

Chris Lowell, Halton

From vhwang to Everyone: 01:05 PM

Vincent Hwang from AHRI present

From Steve Purdie to Everyone: 01:05 PM



Steve Purdie, Krueger

From Duncan Phillips (RWDI) to Everyone: 01:05 PM

Duncan Phillips, RWDI

From gfaris to Everyone: 01:06 PM

Gus Faris, Dan Int-Hout and Brandon Bates in attendance

From Craig Wray to Everyone: 01:06 PM

Craig Wray, Consulting Engineer, Winnipeg

From Azmi Aboul-Hoda to Everyone: 01:30 PM

My apologies for joining late.

From M. H. Hosni to Everyone: 01:58 PM

Kevin - As I had communicated with you previously, I have ASME Standards Council meeting and have to leave now. If there are any Honors and AWRADS nominations please let me know. Thanks, Mo Hosni

From Frankc to Everyone: 01:59 PM

I'll volunteer

From Kishor Khankari to Everyone: 02:00 PM

I volunteer for subcommittee

From Mike Koupriyanov to Everyone: 02:00 PM

I volunteer as well

From gfaris to Everyone: 02:00 PM

i'll volunteer

From Bob.Persechini NV5 to Everyone: 02:00 PM

I'll volunteer

From gfaris to Everyone: 02:01 PM

Zahra Sardoueinassab with Nailor , I'll volunteer



From Duncan Phillips (RWDI) to Everyone: 02:01 PM

I am interested in participating also

From Duncan Phillips (RWDI) to Me: (Privately) 02:04 PM

Hello Ryan

Any chance you can check to see if I am on your list of corresponding or provisional members pls

From Me to Duncan Phillips (RWDI): (Privately) 02:06 PM

Hi Duncan,

Yes. I'll make a note to check you are on the corresponding member list. Could you provide me your email? I can add you to the Basecamp list as well.

From Duncan Phillips (RWDI) to Me: (Privately) 02:08 PM

for basecamp I use my gmail:

duncan.a.phillips@gmail.com

that can work for contact with the committee too... I have a couple of work email addresses:

dap@rwdi.com

duncan.phillips@rwdi.com

Thank you!!

if everything goes to gmail, that's fine/

From Me to Duncan Phillips (RWDI): (Privately) 02:09 PM

Excellent, will do!

From Duncan Phillips (RWDI) to Me: (Privately) 02:10 PM

appreciate it.

From Katherine D'Avignon to Everyone: 02:49 PM

Thank you everyone. I have to go.