



Shaping Tomorrow's
Built Environment Today

ASHRAE TC 9.2 – Industrial Air Conditioning and Ventilation Committee

June 28, 2022 Meeting Minutes – Hybrid Meeting

Meeting was called to order at 1:13pm eastern time

1) ASHRAE Code of ethic's

In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.

1) The Agenda was reviewed – no changes were made to the agenda.

2) There were self-introductions of all Members and Guests. Duncan Phyfe gave instruction on the use of the virtual and in-person sign-in sheets in the Chat box.

LOCAL Toronto Conference Room Attendance:

Ravi Ganta, (803) 226-5936, Parsons Corp., enr.raviganta@yahoo.com

Matt Gaedtke, (715) 574-5092, Greentek Fan, Matt.Gaedtke@greenheck.com (guest)

Donald Gregory Weekes, (905) 218-5482, Weekes Engineering Inc. gweekes@weekesengineering.com

Joshua Mulder, (281) 468-1274, PAGE, JMulder@pagethink.com

Duran Durieux, (705) 822-9110, Hatch, duan.durieux@hatch.com

Tae Kwon (703) 600-0362, AHRI, tkwon@ahrinet.org

George Gruetzmacher (608) 226-5245, W State Lab of Hygiene, George Gruetzmacher@SLH.wisc.edu

Kevin Marple, (503) 596-2561, Benzco, kmarple@benzco.com

Mark Miller, (608) 658-1132, TCS BASYS, Mfmiller55@gmail.com

Erich Binder, (403) 836-0832, EBCL erich.binder@worley.com

Bill D'Netto, (403) 305-5904, Billetto Solutions Inc., billdne@telus.net

N Eileen Jensen, Retired, nesnejen@gmail.com

Duncan Phyfe, Alden dphyfe@aldenlab.com

Brad Cochran, Guest/Section 9 Head, SH9@ASHRAE.NET

Online attendees:

Duane Hammond, NIOSH, dhammond@cdc.gov

John McKernan, US EPA, mckernan.john@epa.gov

Harvey Schowe, Retired, hlschow6425@centurylink.net

Eric Ballachey, Canadian Nuclear Laboratories, eric.ballachey@cnl.ca

Don Largent, AAF International, dlargent@aafintl.com

Scott Barr, Scottdbarr@yahoo.com

Bill Lampkin, Greenheck Fan Corporation bill.lampkin@greenheck.com

William Kumpf, Campos Engineering, bkumpf@camposengineering.com

- 3) Past meeting minutes were approved.
- 4) Quorum was established with 5 of 7 voting members present.
- 5)

Voting Members this meeting :

- June 2022 Erich Binder – Chair (P)
- June 2024 Duncan Phyfe- Vice Chair
- June 2022 Joel Foster / Ravi Ganta
- June 2023 Deep Ghosh / Mak Kampen
- June 2024 Erik Osteberg / Duane Hammond Secretary/ Duncan Phyfe
- June 2025 Evan Reese/Steven Still/Kevin Marple (added to 2025)

(Joel, Ravi, and Erich will be dropping off and Evan, Steve & Kevin will be joining at the of Toronto meeting)

Positions for 2022-2023

- Erich Binder – Chair
- Duncan Phyfe- Chair
- ??????? - Vice Chair (2022-24)
- Duane Hammond – Secretary
- Joel Foster – Programs
- Deep Ghosh – Standards
- Evan Reese / Steven Still – Handbook
- Eileen Jensen – Honor and Awards
- Mike Baucum / Mark Miller – Webmaster
- Scott McMurray – Nuclear Sub-Committee
- ??????? Research Projects (Put Ravi & Deep and Erich on Research)

- 6) TC Chair Breakfast Meeting – Erich /Duncan

Brad gave the following update regarding the breakfast: TAC has been involved in updating our functional group. We are defining what balance means. Leadership must be ASHRAE members. Continue recommendations that you hold your subcommittee meetings virtually so we are focusing on our main meeting here. If you have a financial interest in a company, you are still considered a rep of that company even if you don't work for them. Latest activity form is due right after this meeting. TAC has added some videos to our website. There are 14 hours of leadership training on there. They were put together by Victor Goldsmith. One item that came up during the breakfast is that TACs plan moving forward is to maintain this hybrid meeting approach and are looking for feedback on how to make it work better and we are looking for input.

Erich mentioned that this TC has been conducting hybrid meetings at least two years before COVID-19. So if we start ignoring people online, please say something. The trainings that are online are pretty good. The membership change does make a big difference regarding having ASHRAE members in key

positions on the TC. On this committee it may not be an issue but on other committees all the way up to vice-chair have been non-members in the past so we want to make sure we maintain members in key positions on the TC.

7) Status of TC 9.2 Events & Activities

- Industrial Vent 2022 Conference – Toronto, Canada – Doug Cochrane
The Industrial Ventilation 2022 conference was held in Toronto this summer just before the summer meeting. It was a 2-3 day industrial ventilation conference that went on from Wed – Fri noon. Feedback was positive from those who attended.
- Industrial HVAC 101 Course – Erich Binder - We did this course in between two conferences, we had about a dozen attendees that are new to the industrial side and new to ASHRAE. Erich has 3 or 4 presentations that are new to industrial and we could put together an industrial sector where we could actually teach the courses and something more specific to what you do whether it is dust control or nuclear. Erich just want to know what everyone's thoughts are. There were some people in the room that seemed interested. Erich is going to talk to the pub ed group that sets up the courses and see what we can do to get something set up. Maybe we get two or three different options concentrating on different areas of the industrial side. John McKernan said that ACGIH has an industrial course that they give at the industrial hygiene conference when they travel around and John will share the contact information.
- Industrial presentation to Students. – Maybe we could put together an industrial course for students.
- Cold Climate Conference 2023 – Anchorage, Alaska – The 2023 ASHRAE and SCANVAC HVAC Cold Climate Conference takes place March 5-8, 2023 at the Marriott Anchorage Downtown in Anchorage. There is going to be an industrial track. We just put out the call for papers yesterday. Our friends in Alaska are hosting it but anything that Alaska hosts is well done. There are a lot of extras and tours that are going to be reasonably priced. It is going to be the day after the start of the Iditarod dog sled race. Anchorage conference is followed by Severe Cold Climate 2023 - Fairbanks
- IEEE_ASHRAE Guideline 21 – Deep Ghosh – Lithium-ion batteries... we are getting close to getting that published. We are in the IEEE process so it may take a little longer but we think we are close to getting it published. There is still talk of doing a separate ASHRAE standard related to that and Deep has been sharing that.
- Epidemic Task Force Update – John McKernan – Yesterday at the task force meeting – the chair appreciated that we put in the close out report. John appreciates the TC help in getting the document in shape and on schedule. We did a great job getting it in. The TF is scheduled to expire in two days but Bill encouraged us to continue the path and putting it through a similar process for covid or epidemic related documents. We have the industrial piece as TC 9.2 but we still have the charge to do whatever we can since the pandemic is still here unfortunately. John can also provide any updates as he has a chance to look over any minutes since he wasn't there for the very beginning of the meeting.

- Decarbonization Task Force - Duncan Phyfe / Erich Binder/ Other – Decarb is meeting right now so there is nothing to report. They have been through quite a few seminars and they had a class over the weekend so they are chugging along full speed ahead. They are still looking for liaisons as mentioned at the chairs breakfast so at some point we will figure out how to get more people in there.
- 8) ASHRAE Handbook – Applications Evan Reese & Steven Still
- Status update and Voting
- The Power Plants chapter is ready to be approved. Textiles needs to be done.
ACTION ITEM: send an e-mail out to vote on handbook chapters.
- 9) Research Projects – Open Position – We are looking for someone to volunteer for this position and get us into RTARS and things like that. If we can come up with research, there is now funding available for it. Research has broken out tracks for lack of a better term. I refer to them as tracks but topics, sustainability, decarb, etc, there are about eight of them running and if you can form your RTAR into that it may help in getting it funded. If you have any interest in being the research champion, please reach out to Erich.
- 10) Standards - Deep Ghosh
- IEEE_ASHRAE Guideline 21 convert to standard - Deep isn't here so hopefully we will have some information on this in Atlanta.
- 11) Program Sub Committee – Joel Foster
- Vent 2022 Special Publication Industrial HVAC
 - Atlanta Submissions – Decarbonization/ Guideline 21 Update/ Industrial HVAC 101 etal
Here are the paper and proposal deadlines for Atlanta Winter conference:
Tuesday April 5, 2022 – Conference Paper Abstracts, Technical Papers, and Paper Session Requests Due
Tuesday April 26, 2022 – Conference Paper Abstract Accept/Reject Notifications
Monday July 25, 2022 – Conference Papers Due – Submitted for Review
Tuesday August 9, 2022 – Debate, Panel, Seminar Form, Workshop Proposals Due
Monday August 15, 2022 – Conference Paper Abstract Accept / Revise / Reject Notifications
Monday August 29, 2022 – Revised Conference Papers, Technical Papers Due
Friday September 23, 2022 – Conference Paper Accept / Reject Notifications
Monday October 10, 2022 – Debate, Panel, Seminar, Forum Workshop Accept / Reject Notifications
Does anyone have any good thoughts on something for example on the Decarb side for Atlanta. It might be worth doing a workshop.
 - Summer meeting 2023 - Tampa Bay – Can we do lithium-ion topic at this conference? Anything we should be looking at doing on the bit coin thing? Does this get into the scope of what this TC does or would this fall under 9.9 for data centers? They do a fair amount of battery backup. It might be worthwhile to contact TC 9.9.
 - Cold Climate Design Conference March 2023 – Erich / Erik / Mak

- Decarbonization Presentation – Greece Oct 2022

Both the cold climate and Decarb are available to submit presentations so please submit to those.

12) Webmaster – Mike Baucom

- Roster Update
- New Website

13) Nuclear Subcommittee – Scott MacMurray

Comments from Scott – action item to send the nuclear chapter to the voting members to read before voting.

14) TC 9 Report Section Head – Brad Cochran

Brad gave the following update: TAC has been involved in updating our functional group. We are defining what balance means. Leadership must be ASHRAE members. Continue recommendations that you hold your subcommittee meetings virtually so we are focusing on our main meeting here. If you have a financial interest in a company, you are still considered a rep of that company even if you don't work for them. Latest activity form is due right after this meeting. TAC has added some videos to our website. There are 14 hours of leadership training on there. They were put together by Victor Goldsmith. One item that came up during the breakfast is that TACs plan moving forward is to maintain this hybrid meeting approach and are looking for feedback on how to make it work better and we are looking for input.

15) Liaisons Reports

- Duane Hammond - MTG Hot Climate - no update
- Steven Still - MTG Resilience / MTG CEA (Agriculture) – no update
- John McKernan Epidemic Task Force - It will end in a couple of days but Bill is still interested in any docs still relevant to covid. We had three presentations and two publications.
- Phyfe – Decarbonization Task Force
- Erich Binder – MTG Cold Climate/MTG ACR / CTTC/MTG-UNEP – RAC – We had a hockey game at the bookstore but gave away one of the cold climate design guides that has the new oil and gas chapter as well as other information. The cold climate conference is in Alaska, so I encourage everyone to get involved in that one. Refrigerating in third world countries but the idea is to give some training on how to keep HVAC running in third world countries.
- Mike Baucum -Standard 90.1 - no update
- MTG Cyber Security – Is there anyone interested in getting involved with that?
- ?????? MTG Effective Building Operation – Might not be much of an industrial component.
- ?????? MTG for Infection Control
- ?????? Journal/Insights Liaison

16) Membership / Honors & Awards – Eileen Jensen

Provisional Member Status upgraded to corresponding members

Awards

- ASHRAE Fellows
- High Tower Award – Eileen has investigated the idea of putting a name forward for the High Tower Award and will do that after the meeting.
- Nominations for Tech Committees / ASHRAE BOD

Eileen is working with a couple other members on awards

There are opportunities to get involved in other committees and even the ASHRAE board.

There are a lot of different positions available to get involved in areas of ASHRAE.

17) New Business

Maker Space Working Group - This is like a flux engineering lab that has soldering stations, 3D printers, workshop, etc – looking for some support on how to do that.

Other new business

Bill Kumpf – recommends listing out the chapters that people are responsible for on the agenda so that everyone knows.

Duncan is going to be the new TC9.2 chair for the next two years.

18) Next Meeting – January Winter Meeting – Atlanta Ga. See everyone in Atlanta!

19) Meeting was adjourned at 2:59pm eastern time.