



Shaping Tomorrow's
Built Environment Today

ASHRAE TC 9.2 – Industrial Air Conditioning and Ventilation Committee meeting minutes

Meeting Minutes for February, 2025 Winter ASHRAE meeting in Orlando, Illinois:

- 1) The meeting was called to order at 1:01PM central time With Eileen providing the Opening Remarks.
- 2) Eileen J. read the ASHRAE Value Statement:

In 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 shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all.

- 3) Information was provided on how to join the hybrid meeting.
- 4) Eileen offered a review of the agenda. No changes were made.
- 5) Instructions for sign in sheet were provided by Eileen. Self-introductions were made by all present and online. Below is the sign-in sheet:

id	Start time	Completion time	Email	Name	First Name	Last Name	Email Address	Mobile #	Affiliation	Membership	YEA Member	International Partici	Hybrid Attendance	We are always looki
1	2/1/2025 13:02	2/1/2025 13:03	anonymous		Mark	Miller	mfmiller56@gmail.com		TCS Bazys	TC Corresponding Memt	No	No	In Person (Orlando)	
2	2/1/2025 13:03	2/1/2025 13:04	anonymous		Duncan	Phyfe	dphyfe@verdantas.com	336.466.54.5438	Verdantas	TC Corresponding Memt	No	No	In Person (Orlando)	
3	2/1/2025 13:03	2/1/2025 13:04	anonymous		Shawn	Nienhuuser	shawn.nienhuuser@harsco.com	903.985.1821	HDR	TC Corresponding Memt	No	No	In Person (Orlando)	I am happy to help when
4	2/1/2025 13:10	2/1/2025 13:12	anonymous		Baalaganapathy	Manohar	baalaganapathymanoha@	55.28880685	SSOE Group	TC Provisional Correspo	Yes	No	In Person (Orlando)	Handbook committee or
5	2/1/2025 13:12	2/1/2025 13:13	anonymous		Mingyue	Guo	mingyue.guo@tamu.edu		Texas A&M University	TC Provisional Correspo	No	No	In Person (Orlando)	Yes
6	2/1/2025 13:11	2/1/2025 13:13	anonymous		Kevin	Margie	kmargie@harsco.com	503.201.2169	Bentz Air Engineering Co.	TC Voting Member	No	No	In Person (Orlando)	
7	2/1/2025 13:28	2/1/2025 13:30	anonymous		George	Gruetzmacher	george.gruetzmacher@	608-712-5364	WI State Laboratory of	TC Corresponding Memt	No	No	Virtual via Teams	Looking to present at su
8	2/1/2025 13:30	2/1/2025 13:32	anonymous		Zara	Sardoone	sardoone1@hri.gov	612.920.0810	Lawrence Livermore Na	TC Guest	No	No	Virtual via Teams	
9	2/1/2025 13:30	2/1/2025 13:32	anonymous		Chris	Kings	chris.kings@gmail.com	602.233.2388	Finis	TC Provisional Correspo	Yes	No	Virtual via Teams	Would like to be part of
10	2/1/2025 13:38	2/1/2025 13:39	anonymous		Omair	Youssef	omair@arab.com	948.574.629021	Ar2o	TC Voting Member	Yes	Yes	Virtual via Teams	
11	2/1/2025 14:08	2/1/2025 14:08	anonymous		Evan	Reese	emreese@burnsmcd.com	785.506.2588	Burns & McDonnell	TC Voting Member	Yes	No	Virtual via Teams	
12	2/1/2025 14:07	2/1/2025 14:08	anonymous		Geoff	Parks	gparks@smacna.org		SMACNA National	TC Provisional Correspo	No	No	Virtual via Teams	Nuclear Facilities

First Name	Last Name	EMAIL	CELL#	Affiliation	Member?	YEA?	In-person
Shawn	Ohara	sohara@smacna.org		SMACNA	No		
Deep	Ghosh	dghosh@southernco.com		Southern Nuclear	CM		
erik	ostberg	erik.ostberg@bp.com			Yes		
fabrice	deldreve	fabrice.deldreve@totalenergies.com			No		
Douglass	Abramson	doug314103@aol.com	3015184462	Retired Federal Govt	CM		
Garret	Lawler	garret.lawler20@gmail.com	9186402555	Jacobs	PCM		
Geoff	Raifsnider	graifsnider@globalfinishing.com	7157979741	Global Finishing Solution	PCM		
Georgios	Gournaras	geogou@novencogroup.com	4799308011	Novenco	No		
Faruque	Ahmed	airtechengineersbd@gmail.com			PCM		
Lee	Bramald	lee.bramald@halton.com		Halton (MEI) Wales	No		
Fraser	Campbell	fraser.campbell@halton.com	8645611407	Halton	PCM		
Shuresh	Maran	shuresh.maran@halton.com		Halton	No		
Erich	Binder				CM		
Harvey	Schowe				CM		HYBRID
Seth	Kun (see duncan)			Verdantas	No		

Additional attendees that did not sign in using the sign in sheet include: Eileen Jensen, Scott MacMurray, Joy Altwies (Section 9 Head)

- 6) Quorum: At the start of the attendance did not meet quorum. The Handbook Chair arrived later, fulfilling quorum.

TC Voting Member	Attendance
Eileen Jensen	Present
Duane Hammond	Not Present
Evan Reese	Present
Kevin Marple	Present
Ostberg, Erik	Present

- 7) Approval of summer meeting minutes from Tampa. Unanimously approved. 2 absent

- 8) Membership by Marple:

- Have five (5). Erik Ostberg. and Evan Reese are rolling off.
- 16 Provisional Members; 10 YEA; 11 will roll-off; 2025 will have 16; roll off 2027
- 72 Corresponding Members: Contacting members to resolve their CM involvement.
- Requested to be voting members: Les Pereira, Shaun Nienhueser, Deep Ghosh, Erich Binder, Duncan Phyfe, and Mark Miller
- Looking for CM to participate in Sub-committee chair.
- Kevin M. moved to accept the new members, and Erik Ostberg seconded. The committee will have seven (9) members. Two are rolling off, (Erik O and Evan R). Unanimously approved.

- 9) Chapter Chair Breakfast by Jensen

- CEBD (Center of Excellence for Building Decarbonization)
- Global Technical Action Committee (GTIC)-ISO (Steve Bushby will be the contact. Eileen will make contact along with Erik.
- Project Review, including translation.
- Orlando had over 200 submissions. The largest since COVID.
- Special publications: Master list available to verify when review/renewal is needed.
- 37 active projects, but no RTARS

- 10) Section Head Report: Joy Altwies: TAC Liason

- Roster update: Link from Tara by March 3rd. Submit to Joy. They will go in effect after Phoenix (new year)
- Strategic Plan on website: Encouraged to review.
- YEA mentor program. YEA members can sign up for the program.

- TAC idea: Activity form: Considering asking for the Board to get funding. Interest (Marple-yes) Include in the note section of the Activity form.
- February 26th program deadline.
- March 5th Conference paper deadline
- Rumors of technical papers that might be closing them down: these are Not Conference Papers.

11) Status of TC 9.2 Events and activities:

ASME CONAGT (Deep) ASME AG1-meeting twice a year. sub-committees: Ventilation and pre ? February 27th virtual, which Deep will invite anyone interested. Hoping for summer meeting to be in-person. Jeff Parks, SMACA Intl.

- Research of Smoke loading of plastic. Also High strength HEPA filters.
- DOE guideline, which is not in the bookstore. It is a design guide.

Students: (Binder)

- Student Activities, asked Erich to do Industrial HVAC 101 presentation. 50 to 100 attended: Industrial versus commercial. Examples of projects.
- May look at DL's
- What about talking with YEA on talking about Industrial Ventilation
- Industrial conference in Phoenix AZ. Have an entire track.
 - 5.4 has three submissions.
 - This was similar to Toronto. Difficult because of a strong local presence. Interest in Greece and Spain. Trying to guide leadership to embrace.
 - Dedicated tracks do help, When there is a track with 2,500 people attending the overall conference, the awareness does help.

Research (Binder):

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12) Handbook (Reese):

- 9.2 - 11 chapters in the applications handbook
- New topics to bring into chapters or entire new. Semi conductor, oil and gas, shelter in place, batteries, food process, industrial paint facilities. Shelter in Place: Met with Erich and Eric Ostberg-Different hazards, Decision tree to find a direction. Looking forward to 2027. Applications handbook. In by second quarter of 2026.
- Sent out to group at large, and have had good feedback.
- Looking at chapters and understanding content and tailor to understanding and usefulness.
- Deep question: How was it generated? It is a working list, which was started previously and has grown further under Eric's leading.
- Don't be concerned about understanding the content, as it needs to be understood by you, so if not clear, then look to help the chapter and ask questions.
- There are some chapters that we might not have leads. Mining was one questioned. Ken Goodman has been contacted, but he has not responded.

- Eileen, Kevin M, Erich B, Deep are leads for quite a few chapters. Ken Goodman as 32, 33, Chris Krieps and ?? Norm Maxwell has not been available, so he would need another lead. Mike Connor (WSB) has not been responding.
 - The effort is to bring together equ Fundamentals or systems and equipment.
- 13) Research Projects - Erich Binder – research –
- Looking for research
 - Cold climates with dust and sand.
 - Explained RTAR submission and try to find a university to bid on it. Form is available on the website and RAC then evaluates. A work statement is then created. Include the link to the website. Provide examples from Binder
- 14) Standards (Ghosh)
- Std 128 is ready to revise the standard. It is the Method of rating portable air conditioning.
 - Guideline 21: Released in 2024. No updates coming. Thermal management of batteries; it is approved and available to acquire. Joint standard with IEEE.
 - Guidelines become chapters.
 - Question IEEE is the lead. They consider a standard, which is not ANSI approved.
- 15) Program Sub-Committee (Phyfe-Binder)
- Ventilation In summer (Phoenix) Erik Ostberg presentation in Phoenix
 - Technical papers and longer, with conference papers are eight (8) pages.
 - Extended abstract.
 - Seminars and workshops-Panels (more engaging) and debates: forums, all interactive (not recorded).
 - Numbers of from CEC for Orlando:
 - Phoenix is the Ventilation track. Batteries, Industrial hygiene.
 - Tom Axley
 - What happens when we don't consider and can develop into litigation.
 - Looking for speakers: Tom Axley, Erich B, and Duncan: Have three (3). Owner perspective from Erich.
 - Get with the speakers by virtual or e-mail and will put together an abstract.
 - George G.: Hygiene consider some contributions. Address how the employees are accessed with exposure. Provide attendees chips. Focus on task. Understand the whole exposure. Not sure how to access the contaminants in the space. Understand the high exposures that might be occurring.
 - Beneficial to have multiple organizations to gain value. It is good to ACGIH industrial hygiene member.
 - Harvey low oxygen spaces included? Air Quality or anything that would be considered over exposure.
 - February 26th: submitting panels and seminars. Final due April 11th.
 - Las Vegas: Conference Tracks: (add to notes from Duncan).
 - What about a battery storage? Seminar or workshop. Guideline 21. Do want to do a session, but not sure about Phoenix (Summer) or Las Vegas (winter). Project with large exposure, and how to design.

- NFPA has some information with lithium batteries. Did reach out, but they did not have as much information on it.
 - Ventilation 22 Special Publication (Binder)
 - No new update
- 16) New Business
- CTTC (Binder)
- Looking for presenters and student presenters
 - MTG RAC: Discussed with Steve Comstock and UNEP and focused on training.
- 17) Honors and Awards
- Fellow: Projects of Distinctions: Does not need to be nationally, or internationally. Unique to our area. Can be considered if was many (ie 25 years) years ago. Eileen would work with you to be able to submit
 - TC 2.10 Resilience (Stills)
 - Cold Climate (Binder)
 - May roll out in Phoenix
 - ACR MTG: Air change rate. Will be some presentations.
- 18) Webmaster (Nienhueser)
- Updated
- 19) Adjournment: Meeting adjourned at 3:00pm eastern time.

Committee Scope

Technical Committee 9.2 is concerned the environment that supports reliable operation of manufacturing and industrial processes and equipment, and strives to ensure the safety of personnel working in industrial facilities. It provides guidance and recommendations regarding the design, installation, operation and maintenance of heating, air conditioning, supply and exhaust ventilation, pressurization and air filtration systems where harmful chemical, physical, nuclear, biological contaminants or hazardous atmospheres have an increased potential to exist.