



Meeting Minutes DRAFT - ASHRAE MEETING –Winter 2024 (Chicago)
TC 2.3 - Gaseous Air Contaminants/Removal Equipment
TC Meeting

Time: 1:00 PM – 3:30 PM CST

Date: Tuesday, January 23

Location: McCormick Place West, W183c (1)

Link: <https://events.rdmobile.com/Sessions/Details/2097050>

TC 2.3 website link: <https://tc0203.ashraetcs.org/>

1. Call to Order

Meeting called to order at 13:02 PM CST

2. ASHRAE Code of Ethics

The ASHRAE Code of Ethics is to be adhered to by those doing ASHRAE business whether or not they are an ASHRAE member. The Code of Ethics can be reviewed at the below link.

<https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

- Code of Ethics Commitment

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.

- Diversity Commitment

ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We proactively pursue and celebrate diverse and inclusive communities understanding that doing so fuels better, more creative, and more thoughtful ideas, solutions, and strategies for the Society and for the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socio-economic status, belief systems, sexual orientation, or education

3. Introductions

- Please mark on the sign-in sheet if you are YEA (≤ 35 years old) and/or if you are an international attendee (reside outside of US) for meeting attendance records.
- Virtual attendees – Sign into chat with your Name, Affiliation, Email, and YEA and/or International designations

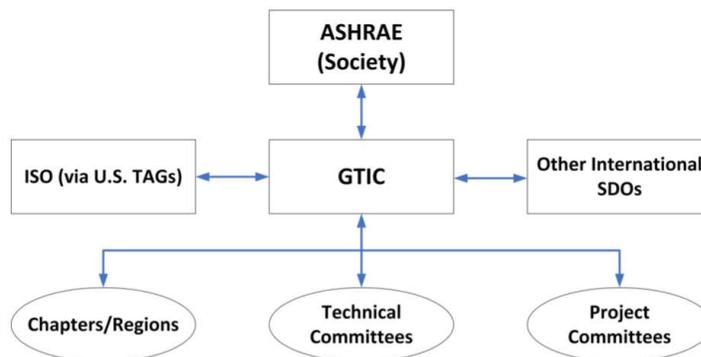
4. **Voting Member Roll Call**

Name	Present?
Kevin Kwong	Yes
Tori Binz	Yes
Paula Levasseur	No
Michael Corbat (NQVM)	Yes
Vivek Gaur (NQVM)	Yes
Mick Flom	Yes
Henry Greist	Yes
Chrystal Joliffe	Yes
Ashish Mathur	Yes
Kathleen Owen	No
Scott Parris	Yes
Dave Schaaf	Yes
Mengjia Tang	No
Marwa Zaatari	No
Jianshun Zhang	No

10 of 15 Voting Members present, QUORUM

5. **Chair's Report**

- i. Updates from TAC/TC Chair's Training Breakfast
 - a. Global Technical Interactions Committee (GTIC)



- b. Technical Committees Interactions Subcommittee (TCIS)
 - i. Communicates between society level technical committees and the GTIC
- c. Task Force for Building Decarbonization (TFBD)
 - i. Working with White House to define “Zero-Emissions Buildings”
 - ii. 6 decarbonization guides to be completed in the next 12 months
 - iii. **ASHRAE strategic plan will begin taking surveys**
 - iv. Added building decarbonization goal to ASHRAE Strategic Plan
 - 1. Halve greenhouse gas emissions by 2030
 - 2. All buildings net zero GHG emissions by 2050
- d. Government Affairs Department (GovAffairs@ashrae.org)
 - i. 144 Government Outreach Events in the past year



- ii. Drafting letters and testimonies, supporting briefings for policy makers, responses to RFIs
- e. Current ASHRAE Strategic Plan covers 2019-2025
 - i. <https://strategicplanfeedback.ashrae.org>
 - ii. ASHRAE will pull responses on January 31, 2024 and May 31, 2024
- f. You must apply to become a Provisional Corresponding Member of TC 2.3. You do not need to be an ASHRAE member to join a TC.
 - i. <https://www.ashrae.org/technical-resources/technical-committees>

6. Section 2 Head – Lan Chi Nguyen

- New section head changed from Jon Cohen to Lan Chi Nguyen.
- Lan Chi Nguyen was not present during this main meeting.
- No updates

7. Review and Approval of previous meeting minutes

- One revision to TC 2.3 Summer 2023 Tampa draft meeting minutes. Program Subcommittee listed 1 forum and instead was corrected to a seminar. Ashish makes the motion to approve TC 2.3 Summer 2023 Tampa draft meeting minutes, Matt seconds the motion to approve. 9-0-1-5-CNV (Approve-Disapprove-Abstain-Absent-Chair Voting Status) PASSED

8. Summary of votes between meetings

#	Motion	Vote (For-Against-Abstain-Absent-Chair Voting Status)
1	Co-sponsor WS-1913 “Study of the Corrosion Impact on Information Technology Equipment in Data Centers Located in Coastal Regions with High Sea Salt Concentration”	(8-3-1-3-CNV)

9. Items to be voted on:

- i. 1869-TRP “Evaluation of VOCs with Respect to Development of Revised Standard 62.1 Indoor Air Quality Procedure (IAQP) Design Compounds and design limits”
 - Henry makes the motion to approve, Tori seconds the motion to approve. 9-0-1-5-CNV (Approve-Disapprove-Abstain-Absent-Chair Voting Status) PASSED
- ii. Co-Sponsor Seminar for Indianapolis “Does this air cleaner work in my room? New ASHRAE Tests in Chambers” (Linda Lee on 185.3, Caitlin Naske on 145.4, Kathleen Owen on 185.5)
 - Co-sponsor needed for Indianapolis, sponsored by RAC, Matt makes the motion to approve, Michael seconds the motion to approve. 9-0-1-5-CNV (Approve-Disapprove-Abstain-Absent-Chair Voting Status) PASSED

10. Particle Party - Keith Chesson

- i. 7:00PM at Pizano’s Pizza & Pasta (1 block from Marriott)

11. Get an update on:

- i. RP-1579 review as part of 62.1 to see recommendations to change the Standard
 - Chris M. is submitting a change proposal to 62.1 to require air cleaning in any outdoor area that does not meet national standards for ozone. Will sync up with Standard 189.

12. Subcommittee Reports

- i. Research - Subcommittee Chair – Paula Levasseur/Caitlin Naske
 - When responding to comments coversheet is needed.
 - If going to bid will only go to bid once.
 - There will be a budget cost guideline.

- ii. Handbook - Subcommittee Chair -- Brian Krafthefer/Michael Sherber
 - TC 2.3 was given short notice on responsibility for Chapter 12 – Odors
 - i. Originally due June 2024. Brian is requesting an extension for January 2025.
 - ii. We urgently need reviewers for this Chapter!
 - Good progress on Chapter 11 and informed that Chapter 12 has also been added.
 - Spoke with TC2.1 with more expertise to help.
 - A separate discussion will be had for ultimate responsibility for Chapter 12.
 - Searching for additional personnel to review.

- iii. Membership - Subcommittee Chair -- Matt Middlebrooks
 - 4 Voting Members rolling off on June 30, 2024: Mick Flom, Vivek Gaur, Ashish Mathur, Jianshun Zhang
 - 15 voting members.
 - 157 corresponding members.
 - 8 provisional corresponding members 4 added since Tampa meeting June 2023.
 - 33 YEA members.
 - 40 International members.
 - Rolling 4 voting members off as of June Mick Flom, Vivek Guar, Ashish Mathur, Jensen Zhang.
 - Rolling 4 new voting members on Michael Sherber, Paolo Tronville, Christopher Vizcaino, Pending 4th.

 - Rotating on 4 Voting Members on July 1, 2024: Paolo Tronville, Chris Vizcaino, Michael Sherber, (waiting on 4th to confirm)

- iv. Planning - Subcommittee Chair – Tori Binz
 - Meeting pushed back to 7:00am.
 - Social media is lacking visibility.
 - Updates will make TC2.3 easier for others to find .
 - Suggested to write an IAQ book.
 - Kevin Kwong will potentially replace Matt Middlebrooks as Membership Vice Chair if Matt chooses to retire.

- v. Program - Subcommittee Chair - KJ Choi
 - Chicago had two forum rejections, seeking to resubmit those with updates to the name.
 - There will be three seminars for Indianapolis, including “Gases and Particles from Wildfires”.
 - Also proposing a seminar on “Back to Basics”.
 - Brian is looking to pursue “Particle Loading on Gas Phase Filters”.

- vi. Standards - Subcommittee Chair – Michael Sherber
 - Looking to move forward with 27 process committee SPLS finally approved the roster



- Goal to have preparations for June 24 meeting

13. Other Updates

- i. ASHRAE Learning Institute – Marilyn Listvan
 - No updates.
 - Requesting a new liaison for this position.
 - Encouraging members to give presentations on the various topics.
 - Open to proposals for the course.
- ii. Publications - Subcommittee Chair -- Marilyn Listvan
 - Seeking new publications to post.
 - Attempting to keep up to date with latest advancements.
- iii. Website - Subcommittee Chair - Caitlin Naske
 - Website is up to date.
 - Seeking to make website more accessible.
- iv. SSPC 145 – Committee Chair – Tony Abate
 - Completed the comments, all votes were approved, next steps will incorporate responses into doc.
 - Pass through committee prior to public review.
- v. SPC 145.4P – Subcommittee Chair – Caitlin Naske
 - Almost complete with draft, need to finish the QC section.

14. Review of Action Items from Last Meeting

#	Action Item	Owner	Meeting Initiated	Update	Status
1	Collection of TC member bibliography papers for website posting	Marilyn Listvan	Atlanta	Soliciting additional information, and publications pertaining to TC2.3	In progress
2	Development of a course on gas phase filtration to be part of ASHRAE supported classes and send to chapters	Paula Levasseur	Atlanta	Marilyn will post “History of Filters” presentation.	In progress
3	Title/purpose /Scope for MTG or GPC on how to implement combined filtration systems	Brian Krafthefer	Houston	No update	In progress

15. Report from TC liaisons

Henry Greist– TC 2.9 (UV Air and Surface Treatment)

- Reviewed K Value work, requested a no cost extension.
- K values are the dose required to deactivate microbials.

Marwa Zaatari - 62.1 (Ventilation and Acceptable IAQ – Commercial)

- IAQ guideline 42 has been published and might be for sale
- Document goes above code language and mentions best engineering practices

Marwa Zaatari / Jianshun Zhang – EHC (Environmental Health Committee)

- Submitting a change proposal to include language stating that any area that is non-attainment should be subject to NAAQS have to treat the air prior to bringing in air.

Nick Agopian – 62.2 (Ventilation and Acceptable IAQ – Residential)

- No Update

Nick Agopian – TC 5.5 (Air-to-Air Energy Recovery)

- No Update

Nick Agopian – TRG4.IAQP (Indoor Air Quality Procedure)

- Forming a working group with 62.1 to include equivalent clean air (ECA) and which contaminants should be used.
- John Randtke presented on IAQP and is encouraging some working groups to address occupant surveys amongst other items.

Michael Sherber - TG2.RAST (Reactive Air and Surface Treatment)

- Approved co-sponsorship on a chamber test method 185.3, 145.4, 185.5 which will be used in std 241.

Tony Abate – TG2.IAQMP (Indoor Air Quality Monitoring Devices)

- No update

Tony Abate – TC 4.3 (Ventilation Requirements and Infiltration)

- No update

Jon Rajala – TC 2.4 (Particulates)

- No update

Jon Rajala –ISO/TC 142 (Cleaning Equipment for Air and Other Gases)

- Plenary session in held in Korea
- Working group 8 recent published 10121-3 for outdoor air, postpones inclusion of byproducts waiting on 145.2

Brian Krafthefer – TC 4.10 (Indoor Environmental Modeling)

1. There is a study on Ventilation Effectiveness for gases and particles - the modeling thereof.
 - Seminar proposed for particulates and contaminants for health and safety.



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- **Soliciting proposed seminar topics.**

2. There is a Seminar proposed on particle and contaminant tracking for health and safety. It is co-sponsored by both TC2.4 and TC2.3.

Brian Krafthefer – TC 2.1 (Physiology and Human Environment)

- **Still looking to transfer responsibility of chapter 12 from 2.3 to 2.1**

Marilyn Listvan - TC 9.7 (Educational Facilities)

- **No updates**

Matt Middlebrooks – TC 2.2 (Plant and Animal Environment)

- **No updates**

Matt Middlebrooks – TG9.SPACe (Extraterrestrial and Deep Space Environmental Control Systems)

- **Officially reclassified as TC 9.13, and are pursuing a 62.X standard without ventilation.**

16. **New Business**

17. **Adjourn**