

ASHRAE MEETING AGENDA
January 2022 Las Vegas, NV Meeting
TRG4.IAQP - Indoor Air Quality Procedure Development

Sunday, January 30, 2022
6:00 to 8:00 PM Pacific Time (PT)

Meeting Location – [Hybrid, Caesars Palace Room: Capri \(P\) & WebEx](#)

Link: <https://events.rdmobile.com/Sessions/Details/1264807>

Details: Meeting ID: 2336 260 7728

Passcode: TRG4

Join by phone: 1-866-299-4153 USA Toll Free

Access Code: 2336 260 7728

1. [Call to order](#). Introduction of guests and members

Meeting called to order at 6:05 PM PST

2. Reminder of [Code of Ethics](#):

“Commitment to the ASHRAE Code of Ethics – 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>.)”

3. [Commitment to Care](#)

“The health and safety of all ASHRAE conference attendees is a top priority. Out of respect for our fellow attendees, we commit to wear masks indoors, monitor our health, seek medical attention if symptoms develop and adhere to all ASHRAE Commitment to Care protocols. We are committed to the well-being of one another.”

4. [Membership](#)

- a. Voting Members Present (Quorum Established?)

Quorum Established (10/11 VM present, see below for in-person/virtual attendance)

First Name	Last Name	Membership	Virtual/In-Person
Nick	Agopian	VM	in-person
Dean	Tompkins	VM	in-person
Tony	Abate	VM	virtual
Mattea	Brown	VM	virtual
Richard	Fox	VM	<i>not present</i>
Brian	Hafendorfer	VM	in-person
Chris	Hsieh	VM	virtual
Gemma	Kerr	VM	virtual
Caitlin	Naske	VM	virtual
Kathleen	Owen	VM	virtual
Lexuan	Zhong	VM	virtual

Other attendees:

Corresponding Members (7/22)			Guests/Other		
Victoria Binz	CM	in-person	Vance Payne	Section Head	in-person
Jim Dennison	CM	virtual	Wane Baker	G	virtual
Henry Greist	CM	in-person	Manuel Luiz Simops Gamecino	G	in-person
Elliott Horner	CM	virtual	Dan Mason	G	in-person
Patrick MacCormac	CM	in-person	Gene Naroditsky	G	virtual
John Randtke	CM	in-person	Frederico Parawhos	G	in-person
Marwa Zaatari	CM	in-person	Vikram Praterp	G	in-person
<i>Provisional Corresponding Members (6/44)</i>			Shana Scheiber	G	in-person
Henrique Cury	PCM	in-person			
Chrystal Jolliffe	PCM	virtual			
Nitin Naik	PCM	virtual			
Amir Refaat	PCM	virtual			
Chalie Waddell	PCM	virtual			
Junjing Yang	PCM	virtual			

b. Development of new voting members

5. [Approval of Meeting Minutes](#)

- a. TRG4IAQP Summer Meeting Minutes (Unapproved) Virtual 20210622 (June 22, 2021)
Motion to approve Summer 2021 Virtual meeting minutes: Dean makes a motion, Brian seconds motion (9-0-1-1; for-against-abstain-not present)

6. [Chairs Breakfast Report.](#)

Main discussion: ASHRAE new focus and strategic plan will be decarbonization driven.

7. [Liaisons](#)

a. Section Head (Vance Payne)

- i. Vance is the new Section Head of ASHRAE Section 4
- ii. TAC page has been updated on ashrae.org, all TC forms and TAC breakfast presentations are posted. See below:
<https://www.ashrae.org/communities/committees/standing-committees/technical-activities-committee>
- iii. Activity form and functional group evaluation form are due by Tuesday night. Roster update form needs to be completed but NOT submitted by February 15th, let Vance know if there are any issues.

b. Liaison (Marwa) - SSPC 62.1

- i. Addendum aa (design compounds) was approved and moving into the publication process
- ii. Topic in Research & Education Subcommittee about reviving work on addenda ay (efficiency) and az (byproducts)
 1. Marwa requests help from TRG4 to review the addenda and put forward recommendations to 62.1 R&Ed subcommittee so they can be resubmitted

Action Item: Retrieve and send out most recent versions of addenda ay and az and send out to TRG4 membership.

c. Liaison (Nick) - SSPC 62.2

- i. RTAR on unvented combustion devices currently held up in TAC
 1. Ongoing effort on how to address the comments
- ii. 62.2 IAQP development is moving forward, reach out to Nick if interested in getting involved. Goal to keep it simple
- iii. Working group developed with goal to recommend an increase in minimum MERV rating to not just focus on protection of mechanical equipment but also health of occupants
 1. The push was to raise the minimum from MERV 8 to MERV 13, however it was not ready to go to vote at the meeting, a letter ballot will be distributed.
 2. Concerns were raised that a higher required MERV will result in higher pressure drops.
 3. Under Title 24 in California a minimum of MERV 13 is required, the hope is at minimum the 62.2 effort will result in at least MERV 11

d. Liaison (Tony) - SSPC 145.2

- i. 145.1 up for revision, decision to keep as continuous maintenance document
- ii. Work from RP1838 EACs is being included into 145 test method
 1. Currently a work group is circulating the document to make edits and change, once complete will eventually go out to PPR
- iii. Discussion on recirculating test inclusion possible in 145.2 but also interest in development of a "145.3" method.

e. TG2.RAST Reactive Air and Surface Treatment (Kathleen Owen)

- i. First meeting, discussion consisted of mainly introductions of voting members, and what test methods that are applicable to reactive air cleaners
 1. Volunteers to review material about what items need to be included for reactive air cleaners
- ii. Anyone interested is welcome to join, either register online or contact Kathleen

f. Liaison (Tony)-AHAM AC5 (Chamber Test)

- i. Good progress, chamber test for microbial reduction was voted on and passed
 1. Test method will eventually be published

Question: Is there any material that can be distributed to this group at this time? No will have to wait until published

8. [Research](#)

Updates on:

- a. 1869-WS (Work Statement): Evaluation of VOCs with Respect to Development of Revised Standard 62.1 Indoor Air Quality Procedure (IAQP) Design Compounds and Design Limits
 - i. Gemma volunteers to review and revise the work statement
 1. Once revisions are made may need to get sponsorship and co-sponsorship again from the TCs
 2. Goal to have the WS ready for RAC March 15th deadline
 3. The document needs to be reviewed, Dan Mason, John Randke and Gene Naroditsky volunteer to review.
- b. RP-1838 (Research Project): Emerging gas-phase electronic filtration technologies and ASHRAE 145.2 test standard
 - i. Dean provides and update and reviews power point presentation on the research project. Project update was given to the PMS earlier in the month in a joint RP and TC2.3 research meeting.
 1. Main purpose of the project was literature review.

2. In addition, challenge gas study was performed to supplement the literature review. Some discussion points.
 - ii. Sections that are completed will be submitted February 22nd for review. Report is estimated to be completed by the 4th week of March.
 1. TRG4 cannot have access to the report until RP 1838 is completed, however any part NOT directly part of the 1838 study can be shared
- c. Update on RTAR from TC 2.3 “Effects of Increased Use of Sanitation Products on Indoor Air Quality”
 - i. Kathleen reports out, permission granted to move forward with 1935 and was approved with comments.
 1. Some discussion about if topic will still be relevant in 5 years, the estimated project completion date.

9. [New Business](#)

- a. The IAQP addresses PM2.5 and Design Compounds (DCs or VOCs)
 - i. Support for the development of an RTAR to fill in the information gaps for things not included in WS 1869 such as bioaerosols, ozone, PM, inorganics, CO₂, and SVOCs in buildings
 1. Jim Dennison requested any volunteers interested in getting involved with this working group to let him know within the next month
 2. No co-sponsors at this time, TC2.4 may be interested, TC2.3 will likely be asked to sponsor
- b. The IAQP presently does not address airborne pathogens (e.g., SARS-CoV-2 virus).
 - i. If so, how should the IAQP address pathogens?
 1. Concerns from the membership regarding the inclusion of airborne pathogens into the IAQP
 - a. In order to be included in the standard, the dose would need to be known to control for, this is unknown and variable due to the different variants
 - b. A non-zero design level would need to be determined which would be difficult to quantify and would likely not be acceptable in regard to COVID
 - c. 62.1 TPS does not address bacteria, viruses, infectious aerosols, etc. a suggestion would be to develop a whole new standard but will realistically not be included in the IAQP, similar situation to inclusion of wildfires; Marwa
 - d.

Discussion and decision to keep as a new business item to discuss in the future as new developments become available. At this time IAQP will not address. (Anything new?) Will remove from list for topics of discussion in future meetings

- c. Leadership of the TRG4 supports the Motion, Discussion, and Voting on the interest of becoming a TC.
 - i. Who are we? What are we?
 1. TRG4 Chair spoke with Vance who supports upgrading group to TC status
 - a. Process includes forms and mission that supports ASHRAE’s strategic plan, decarbonization
 2. Brian makes recommendation that TRG4 get a formal liaison spot in 62.1 so it is ensured we are heard/represented during their meetings

3. Scope of TRG4 (Marwa) is to provide guidance and recommendations to the 62.1 committee; for example reviewing ay and az and providing input would be a good action item for the TRG
4. ASHRAE has made an effort to reduce groups in the past few years, although not much has been done
5. Quick poll of the room online and in-person was taken to get a feel for general support, the majority was in support of the upgrade providing more information and further discussion.

QUESTION: *How would a new TC fit in with 62.1? How would the relationship with them change? Who does the IAQP “belong” to?*

ACTION ITEM: *Provide TRG4 with information on the differences between TGs, TCs, MTGs, TRGs, etc. to help membership to better understand the best direction for the TRG4.*

ACTION ITEM: *Organize an interim meeting with members to further discuss. Members include Kathleen, Gemma, Charlie, with other interested members from the TRG4 to be contacted for participation.*

d. New Business?

- i. Charlie Waddell- requests a calculator be generated that can be used across the industry that will create uniformity. Would takes it out of the engineers hands ensuring IAQP must be used the same way. Future development
- ii. Closing comment from chair; initiatives for IAQP should take into consideration the influence IAQP will have on net 0 building designs

QUESTION: *Does this group have advice or thoughts if a building does do IAQP how to ensure it has good air quality long term? What way is there to test if the design matches reality? Is there a recommendation for the frequency of testing?*

10. [Adjournment](#)

Meeting Adjourned 7:51 PM PST

