

**ASHRAE MEETING MINUTES**  
**February 2023 Atlanta, Georgia Meeting**  
**TRG4.IAQP - Indoor Air Quality Procedure Development**

Sunday, February 5<sup>th</sup>  
3:30 PM - 5:30 PM EST

Meeting Location – Georgia World Congress Center, A311(3)

1. [Call to order](#). Introduction of guests and members; **Please sign in on the sign in sheet**

Call to order 3:34 PM EDT

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. [Membership](#)

- a. Voting Members Present (Quorum Established?): **7 of 11 Voting Members Present**

First Name	Last Name	Membership	Present?
Nick	Agopian	VM	Yes
Dean	Tompkins	VM	Yes
Tony	Abate	VM	Yes
Mattea	Brown	VM	No
Richard	Fox	VM	No
Brian	Hafendorfer	VM	Yes
Chris	Hsieh	VM	Yes
Gemma	Kerr	VM	Yes
Caitlin	Naske	VM	Yes
Kathleen	Owen	VM	Yes
Lexuan	Zhong	VM	No

*Corresponding Members Present:*

Henry Greist, John Randtke, Mark Davidson, Charlie Seyffer, Tori Binz

*Provisional Corresponding Members:*

Rob McCullough, Charlie Waddell, Chris Muller, Xuchen Wang, Alex Frechette, Ray Mans, Carl Bengtsson, Jerry McGuire, Larry Fletcher, Chrystal Jolliffe

- b. Members

- i. Voting Members

- 11 Voting Members; no one rolling off
- Contact TRG leadership if interested in becoming a voting member

- ii. New members, verify that membership status is listed on their ASHRAE profile

1. Go to “My Profile” on the ASHRAE website and either select “Participation” in the upper right-hand corner OR select arrow in the upper left-hand corner then select “Committees” to view active committees and membership status
  - iii. **Action Item:** *Please update bios online*
    1. Go to “My Profile” on the ASHRAE website and check to make sure information in the “Contact Info” and “Biographical Info” screens are up to date
4. [Approval of Meeting Minutes](#)
- a. TRG4IAQP Annual Meeting Toronto, Canada Sunday June 26, 2022
    - i. Brian H. makes the motion, Chris H. seconds the motion. Vote (7-0-0-3-1), motion passes Toronto meeting minutes approved.
5. [Chairs Breakfast Report](#)
- a. Chairs breakfast Sunday February 5, 2022, 7:00-9:00 AM
    - i. A position document as well as 8 other guides on decarbonization are being released.
    - ii. Standards Committee Manual of Procedures (MOP) is being split.
    - iii. ASRAE research is rebounding following restriction to funds following the COVID-19 pandemic.
    - iv. ASHRAE will now be tracking international members and involvement in committees.
6. [Liaisons](#)
- a. **Section Head**
    - i. Pat Marks (Section 4 Head) reports – Keep the TRG forward thinking, what is the plan for the TRG moving forward.
  - b. **Liaison (Marwa) - SSPC 62.1** – Brian reports out.
    - i. Conversation about wanting systems to be able to “flip a switch for emergency events.
    - ii. Seminar 12 was given in the morning, great presentation, and questions.
  - c. **Liaison (Nick) - SSPC 62.2**
    - i. Continued work on IAQP for 62.2 – DALY approach. Currently discussing PM 2.5 but will reach out to the TRG for help when they start discussing the gas phase components.
  - d. **Liaison (Tony) - SSPC 145.2 (RP1838) 145.4 (Caitlin?)**
    - i. 145.1 revised addendum was passed.
    - ii. 145.2 underwent major revisions to include EACs.
    - iii. 145.4 is a new standard being developed and is a duct plus chamber test, in early development phase.
    - iv. 185.3 is going out for a 2-month public review period.
  - e. **TG2.RAST Reactive Air and Surface Treatment (Kathleen Owen)**
    - i. Will be holding a meeting tomorrow at 1:00 PM, working closely with 185.5.
  - f. **Liaison (Tony)-AHAM AC5 (Chamber Test)**
    - i. Working group published a new standard “Method for Assessing the Reduction Rate of Key Bioaerosols by Portable Air Cleaners Using an Aerobiology Test Chamber” which is now available for sale.
      1. Intertek is now setup to perform this test method.
  - g. **New Liaisons?**

## 7. [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. Gemma Kerr
  - i. Update from Atlanta:
    1. Has been accepted.
- b. RP-1838 (Research Project): Emerging gas-phase electronic filtration technologies and ASHRAE 145.2 test standard
  - i. Update from Atlanta:
    1. Project is now complete as reported by Kevin Kwong (PMS Chair); Kathleen has submitted the Final Report. It is under review by ASHRAE
- c. Update on 1935-RTAR from TC 2.3 “Effects of Increased Use of Sanitation Products on Indoor Air Quality”
  - i. Update from Atlanta
    1. General consensus that maybe this item should be dropped from the list due to lessening impact of COVID-19 (Charlie Seyffer and Brian Hafendorfer commented).
- d. Update on RTAR “Evaluation of Electronic Air Cleaner Performance as Equipment Ages” (John Randtke)
  - i. RTAR draft posted on TRG4 Basecamp
  - ii. No further progress on this RTAR. Waiting on what comes out of 185.5 because it will likely be relevant for the RTAR.
  - iii. TC 2.4 is interested in another RTAR involving emissions from gas stoves.

## 8. [General Discussion](#)

- 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 has been deterred to continue work due to the lack of ASHRAE funding available or being distributed due to COVID and the topic doesn’t relate to ASHRAE’s decarbonization initiative.
    2. ASHRAE changed CO2 concentration limit to 1000 ppm; Nick-WELL building certification, CO2 levels under 700 ppm receives extra points. **Nick will distribute more information to the group.**
    3. Group would like to keep this on the list for continued discussion, currently there are no co-sponsors, **TC2.4 and TC2.3 may be interested groups.**
  - ii. No update in Atlanta
- b. The IAQP presently does not address airborne pathogens (e.g., SARS-CoV-2 virus).
  - i. Table this topic for now, need to wait for code adoptable data to become available.
- c. Design compounds and data mining. Present as a software that is user friendly.
  - i. **Dean T. will put together a presentation for annual meeting in Tampa on this topic.**

- d. Leadership of the TRG4 supports the Motion, Discussion, and Voting on the interest of becoming a TC.
    - i. Move this item up for discussion in Tampa, no time to discuss in Atlanta.
  - e. Charlie Waddell- requests a calculator be generated that can be used across the industry that will create uniformity. Would takes it out of the engineer's hands ensuring IAQP must be used the same way. Future development
    - i. Update from Charlie: This has been worked on by a group a group of individuals who have worked through the model. **Charlie will present on the topic to the TRG in Tampa.**
  - f. 62.2 development of IAQP
    - i. Advisory Public Review Draft, Proposed Addendum c; 45 public review period from January 27 to March 13, 2023
    - ii. <https://osr.ashrae.org/default.aspx>
9. [New Business?](#)
- a. What is the process in applying IAQP on a project? What are some outcomes of existing IAQP projects?
    - i. The TRG is looking for volunteers to give a short presentation in Tampa regarding the life of an IAQP project.
      - 1. Joe Pessa, Jeff Roseberry, and John R.
    - ii. Brian H. – “Book of 100 Spaces”
    - iii. John R. – Consultants struggle with applying VRP more than one would think. There should be a push for more education and getting the industry up to speed with training and seminars as well as encourage people to attend chapter meetings.
  - b. Pawel Comments
    - i. Would like the TRG's mission to be supporting the development of a top tier standard and spoke on his perceived usefulness of TRG4.IAQP
      - 1. Start with a simple list of contaminants/pollutants of concern.
      - 2. Determine if the list is consistent from time to time and location to location.
      - 3. VRP does not require checking the outdoor or indoor quality.
      - 4. Inconsistency between the IAQP and the VRP
    - ii. The US has the lowest ventilation rates, Italy is second
  - c. Discussion on ventilation rates and IAQP and real-world application
    - i. Chris M. – Research has been conducted on mirror buildings where one uses VRP and the other IAQP. **Chris will send some information on the topic to be shared with the TRG.**
  - d. **Is there a calculator available online, such as on the ASHRAE website, for VRP?**
  - e. Change proposal for non-attainment zones, which will make air cleaning a requirement, **should the TRG suggest language to the committee as this change would make it nearly IAQP?**
  - f. For future TRG4 meetings, does the group prefer meeting in person or would they rather hold the meeting virtually in the weeks prior to the conference to help with scheduling conflicts.
    - i. Plan to keep meetings in person.

10. [Adjournment](#)

Meeting adjourned at 5:18 PM EDT.

