

ASHRAE TC 9.7 – Educational Facilities

Virtual Full Committee Interim Meeting – Meeting Notes
Monday, September 29, 2025 | 2:00 – 3:00 PM EST

1. Call to Order **11:06am PT**

Chair: Raj Setty

2. Review of Scope (Chris Ruch) **11:07am PT**

“TC 9.7 is concerned with the application of heating, ventilating, air-conditioning, refrigeration, life safety, and energy conservation systems for educational facilities, including early childhood education through higher education facilities.”

3. ASHRAE Code of Ethics Commitment (Chris Ruch) **11:07am PT**

ASHRAE Code of Ethics Commitment

“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 ASHRAE Code of Ethics:* <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

4. Chair’s Report (Raj Setty) - **Skipped**

5. Knowledge Share (Open Forum) **Time allotted to discuss current events and recent research relevant to TC 9.7.**

ASHRAE IEC Conference Overview – Corey M.

- Importance of air distribution
- Filtration and Ventilation
- Envelope Testing
- ASHRAE IEQ Standard – Corey M
 - Push to group standards together and push for adoption.
 - IEQ Standard could be built on these or built on top
 - Recommend attending ASHRAE Environmental Health Committee – Meetings at ASHRAE Conference – Typically 8am -12noon

UN Conference on IEQ – Tony C.

- Good mix of both academic, science, and emotional

[State Guide for Clean Indoor Air - Master Document](#)

[Green Schools Publications – Setting a New School Indoor Air Quality Research Agenda](#)

NEW PROJECTS AWARDED

- The following four projects were approved for award in Phoenix as follows:
- **1873-TRP**, “*Upper-Air Ultraviolet Germicidal Irradiation (UVGI) for Tall Spaces*,”; Responsible Committee: **TC 2.9** (Ultraviolet Air and Surface Treatment), Co-Sponsors: **TC 9.6** (Healthcare Facilities) Co-funding: None; Estimated Duration: 18 months; Cost to ASHRAE: \$250,031. Contractor: University of Cincinnati
- **1913-TRP**, “*Study of the Corrosion Impact on Information Technology Equipment in Data Centers Located in Coastal Regions with High Sea Salt Concentration*”; Responsible Committee: **TC 9.09**, (Mission Critical Facilities, Data Centers, Technology Spaces and Electronic Equipment); Co-Sponsors: **TC 2.03** (Gaseous Air Contaminants and Gas Contaminant Removal Equipment), **TC 2.4** (Particulate Air Contaminates and Particulate Contaminant Removal Equipment) Co-funding: None; Estimated Duration: 24 Months; Cost to ASHRAE: \$254,972 Contractor: Syracuse University.
- **1936-TRP**, “*Evaluation of relative impact of air change rate (ACR) and airflow patterns on the ventilation performance of indoor spaces*”; Responsible Committee: **MTG.ACR** (Air Change Rate); Co-funding: Price (\$60k), Phoenix Controls (\$25k) ; Estimated Duration: 36 Months; Cost to ASHRAE: \$399,755 Contractor: Worcester Polytechnic Institute.
- **1970-TRP**, “*Study of Grout for Ground Heat Exchangers*” Responsible Committee: **TC 6.08** (Geothermal Heat Pump and Energy Recovery Applications); Co-funding: None; Estimated Duration: 12 Months; Cost to ASHRAE: \$48,523 Contractor: Oklahoma State University.

● PROJECTS PENDING AWARD

- Proposals for the following tentative research projects (TRP) were received prior to the Phoenix meeting, but a funding decision could not be made at this meeting for the following reasons:
- **1825-TRP**, Effects of Locally Provided Makeup Air on Commercial Kitchens, Responsible Committee: TC 5.10, (Kitchen Ventilation); Co-sponsored by: TC 5.03, Room Air Distribution & TC 2.03, (Gaseous Air Contaminants and Gas Contaminant Removal Equipment) – Two bids were received but the PES has not met to make a recommendation. The TC can consider a letter ballot and RAC can consider at a later meeting.
- **1895-TRP**, Effect of penetration through particle pre-filters on the performance of gas filters, Responsible Committee: TC 2.3 (Gaseous Air

Contaminants and Gas Contaminant removal Equipment); Co-sponsored by: TC 2.04, (Particulate Air Contaminants and Particulate Contaminant Removal Equipment & GPC34) – Five bids were received but the PES has not met to make a recommendation. The TC can consider a letter ballot and RAC can consider approving at a later meeting.

- **1918-TRP**, The Verification of openings, the limitations of openings, air distribution and humidity conditions in Naturally Ventilated spaces to compliment Section 6.4 of ASHRAE Standard 62.1, Responsible Committee: TC 4.05, (Fenestration), Co-sponsored by: SSPC 62.1, (Ventilation and Acceptable Indoor Air Quality) – Eight bids were received but the PES has not met to make a recommendation. The TC can consider a letter ballot for RAC consideration at a later meeting.
- **1925-TRP**, Development of view clarity metrics for fenestration systems, Responsible Committee: TC 4.05, (Fenestration) – Five bids were received but the TC has not submitted a recommendation. The TC can consider a letter ballot for RAC consideration at a later meeting.
- **1950-TRP**, Effect of residential exhaust terminations on jet mechanics and resulting required intake separation, Responsible Committee: TC 4.03, (Ventilation Requirements & Infiltration) Co-sponsored by: SSPC62.1 – The TC wishes to revise work statement and rebid project.

- **ASHRAE Position Document Updates**

- A new Position Document was approved:
- Human Health and Wellness in the Built Environment
- Two Position Documents were reaffirmed:
- Infectious Aerosols
- Refrigerants and their Responsible Users

- **UPCOMING WORKSHOPS, CONFERENCES AND EVENTS**

- **[ISHRAE Cool Conclave 2025](https://ishraecoolconclave.com/)** - July 31, August 1 - 2, 2025 - Indore, India. <https://ishraecoolconclave.com/>
- **[ASES Solar 2025](http://www.ases.org/conference)** - August 4 - 6, 2025 - Boulder, CO. www.ases.org/conference
- **[Asia-Pacific Cleanroom Technology & Equipment Exhibition](http://www.clcte.com)** - August 8 - 10, 2025 - Guangzhou, China. www.clcte.com
- **[IVIS 2025](https://ivis2025.ornl.gov/)** - Sep 10-11 - Knoxville, Tennessee. <https://ivis2025.ornl.gov/>
- **[AHR Expo Mexico](http://www.ahrexpomexico.com/)** - September 23 to 25, 2025 - Monterrey, Mexico. www.ahrexpomexico.com/
- **Healthy Indoor Air: A Global Call to Action** – the inaugural High-Level Side Event on indoor air quality, to take place on the sidelines of the UN General Assembly

- **Date:** Tuesday 23 September 2025
 - Time:** 3.30pm – 5.30pm
 - Venue:** UN Headquarters, New York
 - [NAFA Annual Convention](#) - October 21 - 23, 2025 - Newport, RI. www.nafahq.org
 - [RETA Conference](#) - October 21 - 24, 2025 - Spokane, WA. www.reta.com
 - [2025 AABC Annual Meeting](#) - October 22 - 24, 2025 - Amelia Island, FL. www.aabc.com
 - [SMACNA Annual Conference](#) - October 26 - 29, 2025 - Maui, HI. <https://tinyurl.com/SMACNA25>
 - [Greenbuild](#) (Official Greenbuild International Conference and Expo) - November 4-7 - Los Angeles, CA. <https://informaconnect.com/greenbuild/>
 - [Climatización y Refrigeración](#) - November 18 - 21 - Madrid, Spain. www.ifema.es/en/cr
 - [elementalLondon](#) - November 19-20 - London, UK. <https://elementallondon.show/>
 - [ISHVAC 2025](#) (The 14th International Symposium on Heating, Ventilating, and Air Conditioning) - November 29, 2025 – December 2, 2025 - Tokyo, Japan. <https://ishvac2025.com/>
- **2026**
 - ASHRAE Winter Meeting - Jan. 31-Feb. 4, 2026 – Las Vegas, NV
 - [CIBSE Technical Symposium 2026](#) - April 23-24, 2026 - Loughborough University - Leicestershire, UK. www.cibse.org/whats-on/cibse-technical-symposium
 - [12th International Conference on Indoor Air Quality, Ventilation, and Energy Conservation in Buildings \(IAQVEC 2026\)](#) - May 18 to 22, 2026 | Los Angeles, California . <https://iaqvec2026.org/>
 - ASHRAE Annual Meeting - June 27-July 1, 2026 – Austin, TX
 - [AHR Expo Mexico](#) - September 29 to October 1, 2026 - Guadalajara, Mexico. www.ahrexpomexico.com/

6. Old Business **11:20 am PT**

Design Guidance for Educational Facilities – Version 3.0 & 4.0

Lead V3: Corey Metzger –Close to finishing V3.

- Will share with others who have had concerns about the document in the past.
- Presentation done on document in the Pre-Conference to discuss the value of the document. Group was satisfied with the approaches we are taking.
 - Corey shared presentation

Lead V4: Work on V4 will begin once V3 is released.

- Assessment Section Linked to updates guidelines, and state adoptions
- Standardization of Guidelines

7. Project Status Report

- **IAQ Control Strategy** – Steven Winstead (Carl Bengtsson Reported)
- **August Working Group Meeting Notes – No September Meeting was scheduled**
 - Focus on if 9.7 documentation is in line with TC 1.4 Control Theory, Guideline 36, and ASHRAE 62.1
- The group could focus on:
 - Review Guideline 36 & ASHRAE 62.1 & Guideline 44
 - Consider if editions need to be added that are specific to schools districts.
 - Are any scenarios or sequences missing from Guideline 36 that are specific to schools?
 - Is too much left to the engineer to interpret?
 - Reach out to Guideline 36 to see what their plans are for future improvements, how 9.7 can assist, and consider a liaison from TC 9.7
- **Model Language and Assessments for Legislation** – Tony & JuNelle (Carl, Catherine, Raj, Chris)
 - **Next Meeting scheduled for Monday, October 13th 10-11am**
 - Working through MERV 13?
 - Review of legislation that was drafted and if it passed, how did it work out
 - Develop Model Language and or Policy Paper for resource
 - Raj Reached out to Alice Yates (ASHRAE GAC) to inform her of our intentions and ask for advice.
 - Corey M. Recommended additional ASHRAE people that should be contacted.
- **Early Childhood Handbook Addition** – Itzhak Mahor
 - Couple areas of investigation
 - General Architectural Considerations
 - How to define design temperature for infants and toddlers
 - ASHRAE 55 may not be applicable to infants and toddlers
 - ASHRAE 170 has temps for medical areas
 - There are state codes, but they may not be sufficient
 - MA, CA
 - Sudden Infant Death (SID)
 - Difficult to find recommendations
 - Are there lawsuits that note Temp
 - Ventilation and Filtration
 - 62.1 will be likely reference

- Maintain recommendation of MERV 13
- VOC generations may be higher when infants sleeping
- Equipment
 - Starightforward based on day care per child area
 - Distribution
 - Should lower elevations for breathing zones be considered
 - Altered Distribution Effectiveness
 - Sick room
 - Dedicated space with dedicated unit
- **Next Meeting – Second Week of October**
 - Final Approach – End of October
- Need Case Studies
 - <https://pubmed.ncbi.nlm.nih.gov/28569620/>
 - <https://pubmed.ncbi.nlm.nih.gov/17661928/>

9. Next Interim Meeting: October 30th, 2-3 ET

10. Adjournment: 12:00 am PT