

## ASHRAE TC 9.7 – Educational Facilities

Virtual Full Committee Meeting – Notes  
Thursday, August 28, 2025 | 2:00 – 3:00 PM EST

Zoom Available:

### 1. Call to Order **2:01pm (ET)**

Chair: Raj Setty

### 2. Review of Scope (Raj Setty)

“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 (Raj Setty)

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)

Is this format of monthly meetings and working group meetings working?

- No issues reported from the group.

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

**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

**Co-sponsored by:** France and Montenegro

- **Convened by:** Australian Academy of Science, Burnet Institute, Brown University School of Public Health and The OSLUV Project.

Distinguished speakers include:

- **H.E. Mr Jakov Milatović**, President of Montenegro

- **High-Level Representative of France**, TBC
- **Inger Andersen**, Under-Secretary-General, UN and Executive Director, UNEP
- **Caroline Fredrickson**, Director, Research and Publications, International Labour Organization (ILO)
- **High-Level Representative**, World Health Organization (WHO), TBC
- **Professor Joseph G. Allen**, Director, Healthy Buildings Program, Harvard T.H. Chan School of Public Health
- **Anna-Maria Arabia**, Chief Executive, Australian Academy of Science
- **Professor Bettina Borisch**, CEO, World Federation of Public Health Associations
- **Dr Kerry Kinney**, President-Elect, International Society of Indoor Air Quality and Climate (ISIAQ)
- **Professor Lidia Morawska**, Director, Thrive, Queensland University of Technology
- **Dr Jagat Narula**, President, World Heart Federation
- **Sotirios Papathanasiou**, Lead Author, Global Open Air Quality Standards (GO AQS)
- **Plum Stone**, Founder and CEO, The Safer Air Project
- **Katherine H. Walsh**, Assistant Director of Planning, Engineering, Sustainability and Environment, Boston Public Schools and others to be confirmed.

**This event will:**

- Highlight the critical importance of Healthy Indoor Air
- Showcase best practices and scientific innovation
- Inspire global collaboration and foster new networks
- Include the launch of the Global Pledge for Healthy Indoor Air

## 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** - July 31, August 1 - 2, 2025 - Indore, India. <https://ishraecoolconclave.com/>
- **ASES Solar 2025** - August 4 - 6, 2025 - Boulder, CO. [www.ases.org/conference](http://www.ases.org/conference)
- **Asia-Pacific Cleanroom Technology & Equipment Exhibition** - August 8 - 10, 2025 - Guangzhou, China. [www.clcte.com](http://www.clcte.com)
- **IVIS 2025** - Sep 10-11 - Knoxville, Tennessee. <https://ivis2025.ornl.gov/>
- **AHR Expo Mexico** - September 23 to 25, 2025 - Monterrey, Mexico. [www.ahrexpomexico.com/](http://www.ahrexpomexico.com/)
- **NAFA Annual Convention** - October 21 - 23, 2025 - Newport, RI. [www.nafahq.org](http://www.nafahq.org)
- **RETA Conference** - October 21 - 24, 2025 - Spokane, WA. [www.reta.com](http://www.reta.com)
- **2025 AABC Annual Meeting** - October 22 - 24, 2025 - Amelia Island, FL. [www.aabc.com](http://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](http://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](http://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/](http://www.ahrexpomexico.com/)

## 6. Old Business

Design Guidance for Educational Facilities – Version 3.0 & 4.0

Lead V3: Corey Metzger – Chris Ruch was to check in with Corey on the status.

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

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

Corey is working on getting out V3 for review. He does not need assistance at this time.

## 7. Project Status Report

1. **IAQ Control Strategy** – Steven Winstead (Carl Bengtsson, Alison Schaefer, and Alkis Filipopoulos)

- [August Working Group Meeting Notes](#)
  - 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
- Next Meeting: **TBD**

2. **Model Language and Assessments for Legislation** – Tony & JuNelle (Carl, Catherine, Raj, Chris)

- Initial Goal
  - Mapping of existing Legislation
  - JuNelle created a spreadsheet
- Deliverables
  - Model Segmented Language Sections

- Universal code
- Initial focus
  - Filtration
    - Jon Rajala – Offered to assist
- Brainstorming TAB added to Spreadsheet
  - Illinois Low Cost IAQ Legislation – Structure to keep things moving
  - After Summer Start Up
  - Rating System like LEED for IAQ
    - Including ongoing Maintenance
- Next Meeting: **Friday, September 5<sup>th</sup> 10:30 -11:30am (PT)**

### 3. Early Childhood Handbook Addition – Itzhak Mahor

- Modification of the existing “preschool” section. This will now be “Early Childhood / Childcare Facilities” (Daycare may encompass other ages – Conflict in 62.1) Ages infant 12-24m, 34-36m, 3-5 yrs)
  - Design Assistance
  - Research
    - Focus
      - IAQ, Noise, Temp, Humidity, Ventilation Rates
    - Systems and equipment
    - Researching
      - Need Case Studies
      - Information on Systems are needed
  - Deadline
    - End of Year 2025 – Section will be finished
    - Entire chapter will be submitted by June 2026 for approval
    - Publication in 2027
  - Can make changes to other areas –
  - 3 More Meetings prior to end of year – October (open to doing a meeting in September)

**9. Next Interim Meeting: September 29<sup>th</sup> 2-3pm (ET)**

**10. Adjournment: 2:53pm (ET)**