



Technical Committee 9.07 Educational Facility Air-Conditioning Applications Winter Meeting-Virtual & Atlanta Sunday, Feb 5th, 2023 1:00 PM– 3:00 PM Eastern

MINUTES

This meeting took place in Atlanta. Virtual attendees attended. There was some initial connection issues but it was resolved. Chair was attending virtually

Corey Metzger and Chris Ruch assisted in chairing meeting in room

Roll Call-Quorum was present so meeting was convened

Code of Ethics was reviewed

1.140.001.1 As members of ASHRAE or participants in ASHRAE committees, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct.

A. Efforts of the Society, its members, and its bodies shall be directed at all times to enhancing the public health, safety and welfare.

B. Members and organized bodies of the Society shall be good stewards of the world's resources including energy, natural, human and financial resources

C. Our products and services shall be offered only in areas where our competence and expertise can satisfy the public need.

D. We shall act with care and competence in all activities, using and developing up to date knowledge and skills.

E. We shall avoid real or perceived conflicts of interest whenever possible, and disclose them to affected parties when they do exist.

F. The confidentiality of business affairs, proprietary information, intellectual property, procedures, and restricted Society discussions and materials shall be respected.

G. Each member is expected and encouraged to be committed to the code of ethics of his or her own professional or trade association in their nation and area of work.

H. Activities crossing national and cultural boundaries shall respect the ethical codes of the seat of the principal activity.

Introduced Members and Welcomed Guests

Agenda was Reviewed

Published Guidance Document was Reviewed. Document was published so would be available for public review

OLD BUSINESS

Meeting Minutes (Missing) No meeting minutes after Toronto were available

Matt Middlebrooks – presented RTAR for research on new test rig setup that may be of interest to TC 9.7

- See notes from Las Vegas – current version of RTAR will be shared with chair

Marilyn Listvan – RTAR from TC 2.3 and TC 2.4 – Potential issues with ventilation associated with 3D printers

- RTAR noted in reference to commentary about next action items. RTAR brought up at meeting in Las Vegas.

Presentation from Brad Cochran (Section Head for **Section 9**) – action items:

- Update Roster
- Get liaisons assigned for new groups (TG.RAST, Decarbonization, MTG.RES, etc.)
- Hold virtual meetings between conferences

Handbook Update by Itzhak Maor



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- All updates complete and in the hands of the ASHRAE review

Programs Update by Corey Metzger

- Information on IAQ Guidance Document (Likely after Toronto)
- Lessons Learned from ETF
- Potential future federal programs (likely after Toronto)
- Possible session on 3D Printers.

Lab Classifications in Handbook for Educational Facilities – how do we clarify this (BSL 1/BSL2 for most educational facilities) – Question brought up by Keith Hammelman

- No movement reported.

Discussion of Change to Committee Scope –

- TC 9.7 is concerned with the application of heating, ventilating, air-conditioning, refrigeration, life safety, and energy conservation systems to educational facilities.
- ASHRAE website for this TC missing the word “heating” from voted on scope description.

LIAISON REPORTS

TAC Section 9 Report -Motions, Activity forms, TAC

TAC Review – Brad Cochran

New TG 9._ Need to verify Kyle is to remain the liaison. Kyle can not commit to future ASHRAE involvement

TC 7.3 – Operation and Maintenance Management (Lu / Handwork)

Merged with Owning operating, training costs, may have impacts on 9.7, IAQ scorecards
Catherine stated that ASTM is close to publishing a guide for holistic resiliency with the purposes of describing scope for soon to be required assessments needed for insurance purposes.

SSPC 62.1 (no longer active), 90.1 and 189.1 (Handwork)

Decarbonization is key focus for most and carbon neutral design by 2031 standards/updates.

Handbook (Maor) Update is approved and sent to publishing

SUBCOMMITTEE REPORTS AND BUSINESS ACTIVITIES

Program Subcommittee Report - Corey

Previous Proposed Program Seminars

1. K-12 Education Facilities Ventilation (Lindsay)
2. Campus-wide Automation and Data Science (Setty)

Tampa Tracks June 24-28 2023

1. **Fundamentals and Applications:**
2. **HVAC&R Systems and Equipment:**
3. **Research Summit:** Active research, and the exchange of those research findings, are critical to the development of our HVAC&R industry and built environment. The 2023 Annual Research Summit invites researchers to share those results, including ASHRAE-sponsored research and research of interest to the ASHRAE community. Researchers are invited to present papers, extended abstracts, seminars, forums or



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participate in panel discussions. The Research Summit includes a partnership with ASHRAE's archival journal, Science and Technology for the Built Environment.

4. **Pathways to Zero Energy Emissions and Decarbonization:** Decarbonization is urgently needed to slow climate change that is affecting the wellbeing of our planet. Whether it is new construction, renovation or routine maintenance, ASHRAE and its members are leading in the advancement of carbon neutral, net zero energy and decarbonization strategies in building and HVAC&R designs
5. **Future Proofing the built Environment:** In the face of climate change and weather extremes (hotter, colder, wetter, drier, wilder winds, wildfires, seawater rise, etc.) and energy supply disruptions and shortages, methods of designing, constructing and operating buildings and HVAC&R systems for resilience and sustainability are paramount to long-term success.
6. **Building Automation and Control Systems:** As sensor systems, internet connectivity, building management software and data collection become more sophisticated and ubiquitous, there are substantial opportunities to make buildings and HVAC system and equipment “smarter”, with improved security, performance, efficiency and maintenance, and better utilization of renewable energy resources, including wind and solar energy and energy storage
7. **Professional Development and Education:** We participate in ASHRAE functions for the great value of technical exchange, and also for valuable interpersonal connections and exchanges. This track is designed to provide opportunities to develop and share knowledge in the areas of presentation skills, leadership, teambuilding, understanding various business operations, interpersonal skills, etc., and an opportunity for educators to share knowledge in the teaching and education of current and future generations of professionals. It also provides a venue for presentations on the importance of ethics and benefits of diversity, equity and inclusion (DEI) in our professional and personal development

Membership Subcommittee Report (Haley)

Roster and Leadership updates needed.

Handbook Subcommittee Report (Maor)-Status Update

Research Subcommittee Report

IAQ Educational study

Lab EUI

Standards Subcommittee Report

- 62.1 Liaison-Corey Metzger IEQ
- 90.1 Liaison-David Handwork

NEW BUSINESS

- **Membership Positions**
 - Confirm roles
- **Design Guide For Education Facilities Prioritization for Advanced Indoor Air Quality**
Review Published Version
 - Discussion,
 - Alice from Washington office – potential for transitioning to approved standard, such as ANSI, including possible funded development.

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

AN INTERNATIONAL ORGANIZATION



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- Another option would be to incorporate the data into standard 62 or other IAQ standard.
- TC internal task force within 9.7 to be restarted to focus on deciding direction and options for Design Guide vs. Standalone Standard.
- **Previous Work Plan Items**
 - Handbook content to address facilities characteristics serving ASD demographic
 - Maor update
 - Chapter Update Discussion-Coordination with 62.1 and 90.1 and ETF
 - Title Change: TC 9.7 is concerned with the application of heating, ventilating, air-conditioning, refrigeration, life safety, and energy conservation systems to educational facilities.
 - Should we review PreK and Post Sec or create working groups specific to those areas? I recall that we discussed and approved a title change.
- **Lab Classifications Discussion**
 - Coordination with 9.10
 - Coordination with Std 100
 - RTAR for Lab Building Classifications?