

ASHRAE TC 5.5 Air-to-Air Energy Recovery
ASHRAE 2022 Winter Conference, Toronto, Canada
June 28, 2022

Events	Time	Location*
TC 5.5 Air-to-Air Energy Recovery Subcommittees Meeting	Tuesday, Jan 24 3:00 PM–6:00 PM Eastern Time	Virtual
TC 5.5 Air-to-Air Energy Recovery	Tuesday, Feb 7 3:30 PM–6:30 pm Eastern	Hybrid Hilton, McDonald/Lismer C

Minutes TC 5.5 Full Meeting

Hybrid Meeting

1. If you are unable to attend in person you can join virtually by using the link below:

TC 5.5 Air-to-Air Energy Recovery Equipment

7/4/2023

3:30:00 PM– 6:30:00 PM Eastern Time (ET)

Meeting Link:

<https://events.rdmobile.com/Sessions/Details/1618176>

Access Info:

This meeting will take place in Atlanta. Virtual attendees can click "Enter Meeting" under Resources below to join the meeting on the noted date and time. All times are listed in Eastern Time (ET).

Meeting number:

2333 464 1521

Password:

H68kk6mSTdT

Host key:

785741

Join by video system

Dial 23334641521@ashrae.webex.com

You can also dial 173.243.2.68 and enter your meeting number.

Join by phone

18662994153 United States of America Toll Free

+14702385742 US Toll

Access code: 2333 464 1521

Host PIN: 6622

Launch [20 minutes total]

2. Call to Order / Welcome

ASHRAE Code of Ethics:

"In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.

(Code of Ethics: <https://www.ashrae.org/about/governance/code-of-ethics>)

(Core Values: <https://www.ashrae.org/about/ashrae-s-core-values>)"

Recent CHANGES to the TC MOP requiring BALANCE for the voting membership removes the appearance of bias and conflict of interest. The most recent MOP can be found here: <https://www.ashrae.org/technical-resources/technical-committees> in the

Procedures, Forms & Information for TCs/TGs/MTGs and TRGs section about half way down the page.

ASHRAE 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.

3. TC Scope

TC 5.5 is concerned with air-to-air heat exchangers, their application and cost benefit relationship. It includes consideration of the needs and procedures for standardization and testing, rating and terminology applicable to air-to-air energy recovery.

4. Introduction & Sign up (current email & updates)

5. Roll Call of Voting Members (exhibit 2)

6. Agenda Review and Adoption

7. Approval of Minutes

- a. Annual Meeting, Hybrid, Feb 1, 2022

8. Chair's Report

- a. Kristin Sullivan, Prakash Dhamshala, and John Dieckman will roll off as voting members. Matthew Friedlander, Drake Erbe, Paul Pieper, and Marcus D'Arcy will be our new voting members rolling in.
- b. 2 voting members rolling off by the end of June
- c. Succession Planning:
 - i. Handbook Subcommittee Chair (2 years)
 - ii. Secretary (2 years)
 - iii. Vice Chair/Research Subcommittee Chair (2 years)
 - iv. Chair (2 years)

Liaison Reports [45 minutes total]

9. ASHRAE Learning Institute (Paul Pieper)

- a. See attached for report

10. SSPC 90.1

- a. SSPC 90.1 Activities – (John Bade)
- b. 90.1 EAHR Enhancements working group update

11. Standard 62.1 (Alkis)

- a. New TC 5.5 Liaison to ASHRAE SSPC 62.1

12. Standard 205 Working Group (Kristin Sullivan)

- a. See attached for report

13. Technical Activities Council (TAC) Liaison Presentation (Kevin Marple) [30 minutes]

- a. See attached for report

Subcommittee Reports [45 min total]

14. Handbook (Prakash Dhamshala / G.D. Mathur)
 - a. See attached for report
15. Program (Marc Tardif)
 - a. See attached for report
16. Research (John Dieckmann):
 - a. The only current research activity is 1799-RP, which is in the process of wrapping up. Since the winter meeting, the two plate exchangers were tested and the preparation of the final report has been underway. For the wheel type exchangers, the results have confirmed that the tested sensible and latent effectiveness of a "small" wheel can be taken to accurately represent the effectivenesses of a much larger wheel, at the same face velocity, if the two wheels are technically similar, meaning identical heat/mass transfer passage material, dimensions, desiccant loading, wheel depth, face seal configuration and wheel RPM. The EATR at a given pressure difference decreases as the wheel diameter is increased, so the EATR measured in the smaller wheel is a conservative representation of the EATR of a larger wheel. The final report is undergoing a final review and will be complete by the end of June.
 - b. Volunteers for research chair
17. Standards (Matthew Friedlander)
 - a. See attached for report
18. Website <http://tc0505.ashraetcs.org/> (Brandon Damas)
19. Membership (Chair)

New Business

No New Business

Next Meeting

Next face-to-face meetings will be at the 2023 Winter Conference, Feb 4-8, in Atlanta, GA

- Mo Afshin, Chair TC 5.5
2022-06-12

Exhibit 1:

ASHRAE Code Of Ethics

(Approved by ASHRAE Board of Directors January 30, 2013)

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.

Exhibit 2: Voting Members and Officers as of 1/16/2022

Mo Afshin	Voting (6/30/2023)	Chair (6/30/2023)
Kristin Sullivan	Voting (6/30/2022)	Secretary (6/30/2023) SSPC 205 Liaison
Prakash Dhamshala	Voting (6/30/2022)	Subcommittee Chair (6/30/2022)
John Dieckmann	Voting (6/30/2022)	Research Subcommittee Chair (6/30/2022)
Mark Tardif	Voting (6/30/2023)	Program Subcommittee Chair (6/30/2023)
John Bade	Voting (6/30/2023)	SSPC 90.1 Liaison (6/30/2023)
Carey Simonson	Voting (6/30/2023)	Member
Brandon Damas	Non-voting	Webmaster
Mohammad Rafati	Voting (6/30/2025)	Member
Matthew Friedlander	Non-voting	Standards Chair
Alkis Triantafyllos	Voting (Roster not updated)	62.1 Liaison
GD Mathur	Non-Voting	Handbook Subcommittee Chair
Paul Pieper	Non-Voting	ALI Coordinator

Dates indicate expiration date of terms.