

**ASHRAE TC 5.5 Air-to-Air Energy Recovery
Strategy Planning Webmeeting**
December 6, 2019, 1:00 pm to 3:00 pm Central Time

TC5.5 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.

MEETING MINUTES

These Minutes were approved by a voice vote of TC5.5 on 2020/02/04 at the Orlando Winter Meeting.

1. Call to Order / Welcome
2. Introductions – Attendees:

Adam Fecteau	John Bade
Birol Yavuz	Marc Tardiff
Drake Erbe	Ronnie Moffitt
Mo Afshin	John Dieckman
Paul Pieper	GD Mathur
Yiteng Ma	Prakash Dhamshala
Larry Smith	Kristin Sullivan
Matthew Friedlander – Chair	
3. Agenda Review
4. TAC Request for preparation of 5-Year Plan
See attached “Tip of the Spear” from TAC Liaison Larry Smith
Larry Smith spoke to his goals in requesting the TCs in Section 5 prepare plans in concert with the ASHRAE 2019-2024 strategic plan.
5. Prepare draft 5-year plan
The group briefly reviewed the ASHRAE strategic plan, then engaged in a brainstorming session.

NOTES FROM BRAINSTORMING SESSION

1. Membership Development ← Kristin to draft, Mo will help, target Jan 7-10
 - a. Add younger people, cultivate future leaders, mentor program, outreach to industry to send their developing prospects
 - b. Increase user/general member involvement or value (to them) or engagement
 - c. Chapter involvement
 - i. Distinguished Lecturers are needed – in the past there were monthly+ requests by Chapters for speakers.
 - ii. Speakers needed for Chapters – generate template presentations
 - iii. Marketing – single message multiple channels
 - iv. DL – national focus / i.e. Canada-only; US-only
 1. Topics
 - a. Technology
 - b. Applications
 - c. DOAS?
 - d. Cold-climate

- e. Humid climate
 - f. Get feedback – what are the barriers to ERV? Surveys? – upload to the TC
- 2. Outreach and collaboration with other organizations relating to ERV standards
- 3. ERV-in-system Analysis / (IN 1 Resilient Buildings) ← Drake Erbe, target Jan 10
 - a. Behavior in system – contribution to zero energy / emissions reduction
 - b. Standard 205 – ongoing workgroup
 - c. Modelling comparisons
- 4. Standards – maintain 84, examine whether other standard MOTs are needed <- Friedlander Jan 7
 - a. Run-around loops – add to 84? New standard?
 - b. Comparison methods for alternative methods of ER / calculation of what percentage of an energy transformation is “energy recovery” / how systems compare with ER utilized in different ways
- 5. Handbook ← Friedlander, Adam Jan 10
 - a. Climate-specific treatments / optimized systems for different climates
 - b. Control schemes
 - c. Zero-energy buildings
 - d. As our Standard 205 modeling work advances could fit into handbook chapter
 - e. Remember handbook becomes the standard of care!
 - f. Fixed-bed regenerator (FBR)
- 6. Journal articles on ERVs – emerging, advanced, systems, novel <- John D target Jan 7-10
 - a. Google searchable!
 - b. Author’s effort
- 7. Explore social media as an educational and outreach avenue ← Mo Afshin
- 8. Research ← John D
 - a. FBR validation?
 - b. Extreme cold-weather behavior
 - c. Project proposals shortly to be reviewed
- 9. Code Interaction Subcommittee – what interaction is possible between a TC and CIS?
 - a. Drake Erbe to investigate, don’t expect this as an element of the Strategic Plan

END NOTES FROM BRAINSTORMING SESSION

The Chair proposed to draft a document for review by the meeting attendees prior to the Orlando meeting, and asked for volunteers to draft individual sections. Those volunteers are shown in the above notes with arrows: ←. Ideally each individual section would address a) the action(s) or direction(s) proposed; (b) which of the ASHRAE strategic initiative areas the action/direction aligns with; (c) appropriate timelines and, where possible (d) individuals who will champion or perform on the actions. While “Tip of the Spear” focuses on new initiative, sustaining and regular TC5.5 activities can be included in the strategic document as well.

- 6. NEXT MEETING: The TC5.5 main meeting will be at the Winter Meeting in Orlando, FL, February 1 – 5, 2020

Respectfully submitted – Matthew Friedlander, Chair TC5.5

To: Section 5
From: Larry Smith, Head Section 5
Date: 10/23/19

Regarding: Tip of the Spear

ASHRAE is an international organization comprising of over 57,000 members in 132 countries worldwide. Its members are concerned with the design and construction of HVAC&R systems in buildings. The stated Mission and Vision statements as established by the Society are:

Mission:

To serve humanity by advancing the arts and sciences of heating, ventilation, air conditioning, refrigeration and their allied fields.

Vision:

A healthy and sustainable built environment for all.

The Strategic Plan as developed by the ASHRAE Planning Committee in collaboration with the Board of Directors (2019-2024)

- Higher levels of member engagement, satisfaction and loyalty
- Increased operational efficiency and market responsiveness
- Demonstrated leadership in meeting societal needs through expanded research, application to practice and strategic partnerships
- Increased awareness of ASHRAE and use of its technical resources among priority stakeholders
- Increased global adaptation of ASHRAE Standards
- Increased breadth in ASHRAE's product offerings

The purpose of your respective technical committee is to provide the technical expertise on subjects within their scope of activity. ASHRAE looks to the technical committee as the "experts" in their particular field of endeavor, or Tip of the Spear.

As the chair for your respective technical committee it is your responsibility to provide the leadership to demonstrate, to an international audience, ASHRAE's expertise and preeminence in your area of expertise.

The Technical Committee Manual of Procedures requires a review (section 1.5.1) once a year to evaluate the progress of the technical committee in accomplishing the purpose for which they were constituted and recommend one of several actions to their Section Head; continue the technical committee as is, merge, or disband.

As your Section Head I am requesting a list of actionable items that your respective technical committee plan to accomplish over the next five (5) years, when you expect to have those items completed, and who will be the champion for each of the actionable items.

Please contact me directly if you have any questions (757-392-3233 direct dial)

The actionable items should reflect a combination of ASHRAE's Mission and Vision statements as well as the Strategic Plan.

I would appreciate your list be sent to me prior to our meeting in Orlando 2020.