



**TC 8.10-Mechanical Dehumidification Equipment/Heat Pipes  
Main Committee Meeting Agenda for  
ASHRAE Summer Conference Meeting 2020  
Virtual**

# **WELCOME!**

**No need to say hello.  
We will begin at 2:00 pm EDT**

## **HOUSEKEEPING**

### **Audio**

- **PLEASE** mute yourself upon entry.
- Only Un-mute your line when you need to speak
- If you are joining via computer and phone line, ensure BOTH are muted

### **Video**

- You are welcome and encouraged to share your webcam, but
- To save internet bandwidth, keep your webcam off by default unless presenting.
- Be mindful that you are on display! Turn off your video when needed.

### **Agenda**

- Facilitator this virtual meeting: TC 8.10 Chair, Randy Schrecengost
- Draft Agenda was posted on TC 8.10 Website.
- Introduction
- Presentation
- Concluding Remarks



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**Date:** Tuesday – June 9, 2020

**Place:** Zoom: <https://zoom.us/j/97789034165?pwd=MVdZa2RqRStMVzdwK0E0amJjLzdhdz09>

**Time:** TC 8.10 Main Committee Meeting – Mechanical Dehumidification Equipment & Heat Pipes  
2:00 PM to 4:00 PM EDT

**Note:** TC 8.10 Sub-Committee Meetings - Program/Handbook/Research/Standards  
Within this Main meeting

**Items:** Related to TC 8.10

**SPC 190** - Method of Testing for Rating Indoor Pool Dehumidifiers – Will Not Meet

**SPC 198** - Method of Test for Rating DX-Dedicated Outdoor Air Systems for Moisture Removal Capacity and Moisture Removal Efficiency - Friday – July 17th, 2020 2-4 pm central  
Meeting Link: <https://global.gotomeeting.com/join/844421117>

*Note: Within TC 8.10, we discuss research, handbook, and program activities during one combined subcommittee meeting. Voting members are strongly encouraged to attend the subcommittee meeting. Corresponding members and guests are welcome.*

*Scope of TC 8.10: is concerned with mechanical dehumidification equipment and heat pipes and their design performance, applications, and features.*

*Since most of the subcommittee meeting has been allocated to the discussion of a specific research project topic, much of the discussion and action for Programs, Handbook, Standards, and other Research will take place at the main committee meeting.*

## **Call to order & Introductions: Chair, Randy Schrecengost**

1. Meeting called to order at: 2:07 PM EDT
2. Brief introductions
  - a. K. Muldoon, R. Schrecengost, A. Triantafyllopoulos, A. Malik, D. Dettmers, D. Sandlin, D. Baird, G. Davis, J. Battaglia, J. Warner, K. Swenson, N. Singerman, O. Tamunobere, P. Luttik, R. Short, S. Young, C. Burg, M. Shah,

## **ASHRAE Code of Ethics, Chair, Randy Schrecengost**

“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”.

## **Determination of Quorum - Chair, Randy Schrecengost**

1. Majority of voting members must be present  
Kevin Muldoon, Tam Onieluan, Ralph Kittler, David Baird, Alois Malik, Craig Burg, Chris Soh
2. Quorum established – 6 of 8 VM present



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**Membership/Roster: Webmaster/Membership Subcommittee Chair, Gayle Davis**

1. Leadership: 8 voting, 1 non-voting
2. 70 total members, 51 Corresponding & 10 Provisional Corresponding, Miscellaneous Others: 5
  - a. To become a Provisional corresponding member - please sign-up online
  - b. Chair has discretion to convert a provisional corresponding member to a corresponding member before 2 years

**Request for Approval of Orlando Minutes – Secretary, Kevin Muldoon**

1. D. Baird moved, K. Muldoon second
2. 5-0-0 APPROVED

**Request for Any Additions to Current Agenda**

1. None

**Section 8 Meeting Report - Chair, Randy Schrecengost, Vice-Chair, David Baird**

1. Discussion of items from meeting to occur
2. When “Awards Nominations” are due
  - a. Hightower award nomination due 9/1
3. Deadlines for programs discussed and addressed in Programs report
4. TC opportunities for tracks

**Liaisons:**

|                     |                     |
|---------------------|---------------------|
| <b>Section Head</b> | Kevin Mercer        |
| <b>TAC Chair</b>    | Jay Kohler          |
| <b>Handbook</b>     | Steven Sill         |
| <b>Research</b>     | Christopher Seeton  |
| <b>Standard</b>     | Srinivas Katipamula |
| <b>Staff</b>        | Steven Hammerling   |

*As Liaisons might not be available at the beginning of the meeting, we will provide them the opportunity to address as they enter following the item on the agenda.*

1. Section Head
  - a. Items?
2. Research Chair
  - a. Items?
3. Others?

**Subcommittee Reports:**

**Programs – Program Sub-Committee Chair, Onieluan (Tam) Tamunobere**

1. Summarize and update TC on seminar / program proposal for the Virtual meeting.
2. Review proposals for future meetings
  - a. Winter 2021 – Chicago



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- 1) Dedicated Outdoor Air Systems: Specifying, Applications and Commissioning
  - 2) Submission due by Aug. 3<sup>rd</sup>
  - 3) C. Burg, G. Davis, and R. Schrecengost
  - 4) VOTE: 6-0-0
- b. Summer 2021 – Phoenix, AZ
3. Joint program (8.10/8.12) merger – dehumidification centric seminar discussed for future

### Handbook - Handbook Sub-Committee Chair, Ralph Kittler

1. For the Handbook we are in very good shape. If anyone has any suggestions for improvements, they are welcome to forward to Ralph.
2. There is a new chapter in 2020 ASHRAE Handbook—HVAC Systems and Equipment to include DOAS-specific design considerations. It highlights common issues or challenges engineers can face when incorporating the systems into an overall HVAC design.
3. For the dehumidifiers chapter, we might want to mention something green about refrigerants and the new low GWP options like R32. Maybe also mention some technologies (refrigerant pressure transducers) that help reduce the number of manifold gauge connections needed. Thoughts?

### Research - Research Sub-Committee Chair, Alois Malik

1. New Updated RTAR 1566 - “Equations to Estimate Evaporation Rates from Wetted Surfaces”
  - a. 1566-TRP-C has not yet been released for Bid as planned for spring 2020. Due to the Covid-19 issue, there has been a shortfall in funding for ASHRAE research. Since money must be secured prior to release, there are delays in getting some projects out to bid. RP-1566 is the oldest RP in the queue (which is an advantage) but is not the lowest cost. Prioritization of which RPs to push out in the Fall will be made when the funding has been confirmed, which is hoped to be sometime in July.
2. Co-sponsor RTAR-1901 with TC2.2
  - a. D. Dettmers (primary author for RTAR-1901) provided update
    - 1) Conditionally approved
    - 2) Working on conditions for approval

### Standards - Standards Sub-Committee Chair, Craig Burg

1. ASHRAE Standard 190-2013, Method of Test for Rating Indoor Pool Dehumidifiers
  - Released for public review and begins in July and ends in November
2. ASHRAE Standard 198-2013, Method of Test for Rating DX-Dedicated Outdoor Air Systems for Moisture Removal Capacity and Moisture Removal Efficiency
  - Committee will meet via web conference for the Summer meeting
    - Date:** Friday – July 17th, 2020
    - Meeting Link:** <https://global.gotomeeting.com/join/844421117>
    - Time:** 2:00 pm – 4:00 pm CENTRAL Time

### TC Web Site – TC Webmaster, Gayle Davis

1. Updated with minutes. Documents, etc.
2. Send slides from Orlando seminar to G. Davis for upload to website



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## Other Business

1. Merger with TC 8.12 - Desiccant Dehumidification Equipment and Components
  - a. Nothing has changed at this time as the TCs 8.10 & 8.12 are meeting separately.
  - b. After this virtual Austin Conference, the new Society Year takes effect on July 1, and this is when the new TC leadership should take effect. TAC approved the merger
  - c. David Beard, Kevin Muldoon, and Peter Luttik will continue working together to get the two separate rosters into one with areas of interest being:
    - 1) The sub-committee Chairs
    - 2) Voting Members (note: corresponding members and provisional corresponding members should roll over on their own)
    - 3) Changes are to be effective August 1, 2020
  - d. 6 VM in 8.12 and 8 VM in 8.10 – merger will have 10-12 VM to not be too large to prevent quorum
2. TC9.8 looking for assistance to help write CEA handbook chapter
  - a. Reach out to C. Burg

## Concluding Comments

I've been a voting member since 2009 and served in various positions until this Chair Position the last two years. I deeply appreciate the opportunity have served this Committee, and I look forward to seeing additional great things to come under David Beard.

## Motion to Adjourn

**D. Baird moved to adjourn – 2:55PM**



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**Attendance**

- 1 Gayle Davis (corresponding member)
- 2 Alois Malik (voting)
- 3 Kevin Muldoon (voting)
- 4 Dan Dettmers (Guest)
- 5 Randy Schrecengost (voting)
- 6 David Baird (voting)
- 7 Nadav Singerman (Corresponding member)
- 8 Tam Tamunobere (voting)
- 9 Jason Warner (Guest)
- 10 Kyle Swenson (provisional corresponding member)
- 11 Darrell Sandlin (corresponding member)
- 12 Peter Luttk (corresponding member)
- 13 Alkis Triantafyllopoulos (guest)
- 14 Rick Short (guest)
- 15 James BATTAGLIA (guest)
- 16 Scott Young (corresponding member)
- 17 Craig Burg (voting)
- 18 MM Shah (guest)

DRAFT