



## **TC 8.10-Mechanical Dehumidification Equipment/Heat Pipes Main Committee Meeting Minutes for ASHRAE Winter Conference Meeting 2020 Orlando, FL**

**Date:** Tuesday – February 4, 2020

**Place:** Hilton Orlando, Florida

**Time:** TC 8.10 Main Committee Meeting – Mechanical Dehumidification Equipment & Heat Pipes  
3:30 PM to 5:00 PM  
Hilton Orlando, L, Lake Florence B

**Note:** TC 8.10 Sub-Committee Meetings - Program/Handbook/Research/Standards  
1:00 PM to 3:30 PM  
Hilton Orlando, L, Lake Florence B

**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  
**Sunday, February 2, 12:00 PM to 2:00 PM**  
**Hilton Orlando, L, Lake Highland A**

**Seminar 40:** De-Mystifying Direct-Expansion Dedicated Outdoor Air Systems Performance  
Program Track – Systems and Equipment  
**Tuesday, February 4, 8:00 AM to 9:30 AM**  
**Hilton Orlando, LL, Orange E**

*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: 3:30 PM
2. Brief introductions

### **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”.



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

1. Majority of voting members must be present
  - a. 8 of 8 voting members present

**Membership/Roster: Webmaster/Membership Subcommittee Chair, Gayle Davis (12/28/18)**

1. Leadership: 8 voting, 1 non-voting – as of 01-05-2020.
2. 69 total members, 51 Corresponding & 13 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 Kansas City Minutes – Secretary, Kevin Muldoon**

1. David – Ralph – 8-0-0

**Request for Any Additions to Current Agenda**

1. Add agenda item to liaison report section for MTG.CEA updates

**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
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 – Kevin Mercer
  - a. Provided update on recently formed MTGs
2. Research Chair
  - a. None
3. MTG. CEA



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## Subcommittee Reports:

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

1. Seminar 40 was well attended
2. Potential Program Submission: DX-DOAS Equipment: Specifications, Applications and Commissioning. | Randy S., Gayle D., Craig B.

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

1. Updated chapters are approved. Going in 2020 handbook.
2. Review and revise for 2024 publication cycle – Kevin Muldoon
  - a. HVAC Systems and equipment
  - b. DOAS chapter – Ch. TBD
  - c. Dehumidification chapter – Ch. 25

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

1. New Updated RTAR 1566 - “Equations to Estimate Evaporation Rates from Wetted Surfaces”
  - a. 1566-TRP-C shall be released for Bid in spring 2020.
2. MTG.CEA/TC2.2 putting RTAR together around plant loads in CEA – Seeking 8.10 co-sponsorship.
  - a. Dan Dettmers leading RTAR in TC 2.2
- 3.

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

1. ASHRAE Standard 190-2013, Method of Test for Rating Indoor Pool Dehumidifiers
  - a. Will be published this year.
2. ASHRAE Standard 198-2013, Method of Test for Rating DX-Dedicated Outdoor Air Systems for Moisture Removal Capacity and Moisture Removal Efficiency
  - a. Can begin work now that AHRI 920-2020 has been published.
  - b. New workplan developed
  - c. Plan to vote and submit for public review in 2020 Annual meeting.

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

1. Draft meeting notes are loaded and documents are up to date.
2. Basecamp set up for 8.10

### Other Business

1. Group Questions/Discussions:
  - a. Should our TC have / generate any action items related to low GWP refrigerants, particularly flammable refrigerants?
  - b. Merger with TC 8.12 - Desiccant Dehumidification Equipment and Components (see Attachment A)
    - 1) Motion: Approve merging of TC 8.10 with 8.12 with approved TPS



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- a) 8-0-0
- 2. ASHRAE's Functional Group (FG) combinations discussions (Attachment B)

**Motion to Adjourn – 4:33 PM**

DRAFT

Name	Affiliation	E-mail	Member	YEA
Kevin Muldoon	KCC	<a href="mailto:kmuldoon@kccmfg.com">kmuldoon@kccmfg.com</a>	VM-Sec	Y
Randy Schrecengost	Stanley Cons.	<a href="mailto:schrecengostrandy@stanleygroup.com">schrecengostrandy@stanleygroup.com</a>	VM-Chair	N
Onieluan Tamunobere	Heatpipe Technology	<a href="mailto:tam@heatpipe.com">tam@heatpipe.com</a>	VM	N
Gayle Davis	Stanley Cons.	<a href="mailto:davisgayle@stanleygroup.com">davisgayle@stanleygroup.com</a>	CM	Y
David Baird	Dristeem	<a href="mailto:david.baird@dristeem.com">david.baird@dristeem.com</a>	VM	N
Jason Warner	Emerson	<a href="mailto:jason.warner@emerson.com">jason.warner@emerson.com</a>	CM	N
Rob Bedard	Modine	<a href="mailto:R.J.Bedard@NA.Modine.com">R.J.Bedard@NA.Modine.com</a>	PCM	Y
Craig Burg	Desert Aire	<a href="mailto:craig@desert-aire.com">craig@desert-aire.com</a>	VM	N
Alois Malik	Corcopro	<a href="mailto:amalik@corcopro.com">amalik@corcopro.com</a>	VM	N
Ralph Kittler	DAS	<a href="mailto:ralphkittler@dehumidifiedairsolutions.com">ralphkittler@dehumidifiedairsolutions.com</a>	VM	N
Darrell Sandlin	Carolina Heat Pipe	<a href="mailto:darrell@carolinaheatpipe.com">darrell@carolinaheatpipe.com</a>	CM	Y
Peter Luttk	7AC Tech	<a href="mailto:peter.luttk@gmail.com">peter.luttk@gmail.com</a>	PCM	N
Eric Erdman	Greenheck Fan	<a href="mailto:eric.erdman@greenheck.com">eric.erdman@greenheck.com</a>	CM	N
Rony Cherian	AHRI	<a href="mailto:rcherian@ahrinet.org">rcherian@ahrinet.org</a>	Guest	N
Ned Bent	AHRI	<a href="mailto:nbent@ahrinet.org">nbent@ahrinet.org</a>	CM	Y
Jim Bogart	Johnson Controls	<a href="mailto:james.eric.bogart@jci.com">james.eric.bogart@jci.com</a>	CM	N
James Battaglia	Guidehouse	<a href="mailto:james.battaglia@guidehouse.com">james.battaglia@guidehouse.com</a>	Guest	N
Dan Dettmers	Quest	<a href="mailto:ddettmers@thermostor.com">ddettmers@thermostor.com</a>	PCM	N
Chris Soh	Daikin NA	<a href="mailto:chris.soh@daikincomfort.com">chris.soh@daikincomfort.com</a>	VM	N
Titu Doctor	CENC Inc	<a href="mailto:titu_doctor@hotmail.com">titu_doctor@hotmail.com</a>	CM	N
Eler Whitehead	Rice Univ.	<a href="mailto:ewlb@rice.edt">ewlb@rice.edt</a>	PCM	N
Byron Horak	Intertek	<a href="mailto:byron.horak@intertek.com">byron.horak@intertek.com</a>	Guest	N
Frederick Short	Guidehouse	<a href="mailto:frederick.short@guidehouse.com">frederick.short@guidehouse.com</a>	Guest	N
Jason Freudigmann	Greenheck Fan	<a href="mailto:jason.freudigmann@greenheck.com">jason.freudigmann@greenheck.com</a>	Guest	N
Nick Pearce	Greenheck Fan	<a href="mailto:nicholas.pearce@greenheck.com">nicholas.pearce@greenheck.com</a>	Guest	N
Scott Young	LBNL	<a href="mailto:sjyoung@lbl.gov">sjyoung@lbl.gov</a>	Guest	N
Zakriya Mohammad	KCC	<a href="mailto:zakriya.eng@gmail.com">zakriya.eng@gmail.com</a>	Guest	N



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1. Leadership: 8 voting, 1 non-voting – as of 01-05-2020.
2. 69 total members, 51 Corresponding & 13 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
3. Gayle Davis to replace Randy S. in voting membership when Randy rolls off this year.

## **Request for Approval of Atlanta Minutes – Secretary, Kevin Muldoon**

1. Modifications?

## **Request for Any Additions to Current Agenda**

1. None

## **Subcommittee Reports:**

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

1. Seminar 40 was well attended
2. Need to work on next submission now
3. Reviewed dates for Austin/Orlando conferences.
4. Potential Program Submission: DX-DOAS Equipment: Specifications, Applications and Commissioning. | Randy S., Gayle D., Craig B.

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

1. Updated chapters are approved. Going in 2020 handbook.
2. Review and revise for 2024 publication cycle – Kevin Muldoon
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1. New Updated RTAR 1566 - “Equations to Estimate Evaporation Rates from Wetted Surfaces”
  - a. 1566-TRP-C shall be released for Bid in spring 2020.
2. Sub-committee formed to investigate liquid desiccant testing to AHRI 920
3. Discussion of CEA modeling research – central plant vs. packaged rooftop

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

1. ASHRAE Standard 190-2013, Method of Test for Rating Indoor Pool Dehumidifiers
  - a. Will be published this year.



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**Motion to Adjourn**

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Kevin Muldoon	KCC	<a href="mailto:kmuldoon@kccmfg.com">kmuldoon@kccmfg.com</a>	VM-Sec	Y
Randy Schrecengost	Stanley Cons.	<a href="mailto:schrecengostrandy@stanleygroup.com">schrecengostrandy@stanleygroup.com</a>	VM-Chair	N
Onieluan Tamunobere	Heatpipe Technology	<a href="mailto:tam@heatpipe.com">tam@heatpipe.com</a>	VM	N
Gayle Davis	Stanley Cons.	<a href="mailto:davisgayle@stanleygroup.com">davisgayle@stanleygroup.com</a>	CM	Y
David Baird	Dristeem	<a href="mailto:david.baird@dristeem.com">david.baird@dristeem.com</a>	VM	N
Jason Warner	Emerson	<a href="mailto:jason.warner@emerson.com">jason.warner@emerson.com</a>	CM	N
Rob Bedard	Modine	<a href="mailto:R.J.Bedard@NA.Modine.com">R.J.Bedard@NA.Modine.com</a>	PCM	Y
Craig Burg	Desert Aire	<a href="mailto:craig@desert-aire.com">craig@desert-aire.com</a>	VM	N
Alois Malik	Corcopro	<a href="mailto:amalik@corcopro.com">amalik@corcopro.com</a>	VM	N
Ralph Kittler	DAS	<a href="mailto:ralphkittler@dehumidifiedairsolutions.com">ralphkittler@dehumidifiedairsolutions.com</a>	VM	N
Darrell Sandlin	Carolina Heat Pipe	<a href="mailto:darrell@carolinaheatpipe.com">darrell@carolinaheatpipe.com</a>	CM	Y
Peter Luttik	7AC Tech	<a href="mailto:peter.luttik@gmail.com">peter.luttik@gmail.com</a>	PCM	N
Eric Erdman	Greenheck Fan	<a href="mailto:eric.erdman@greenheck.com">eric.erdman@greenheck.com</a>	CM	N