



## **MINUTES**

### **TECHNICAL COMMITTEE 8.10**

#### **Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components**

2024 Winter Meeting

**January 23, 2024**



180 Technology Parkway NW, Peachtree Corners, GA 30092  
404-636-8400

### TC/TG/MTG/TRG MINUTES COVER SHEET

(Minutes of all Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/MTG/TRG No. TC 8.10 Sub-committee DATE 1/23/2024

TC/TG/MTG/TRG TITLE Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components

DATE OF MEETING January 23, 2024 LOCATION Chicago, IL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Peter Luttik		Gayle Davis		
Darrell Sandlin		Kevin Muldoon		
Eric Kozubal (NQ)		Onieluan Tamunobere		
James Bogart		Wayne Caudle		
James Piscopo				
Craig Burg				

#### **DISTRIBUTION: All Members of TC/TG/MTG/TRG plus the following:**

TAC Section Head:	SHx@ashrae.net Where x is the section number
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters (Research, Standards, ALI, etc.)	See ASHRAE email alias list for needed addresses.
Steve Hammerling, Assistant Manager of Research & Technical Services	AMORTS@ashrae.net

### **Call to order & Introductions:**

Called to order by chair, Peter Luttik, 4:07 pm

Peter read the ASHRAE Code of Ethics.

Introductions were made.

6/10 voting members present, quorum met.

### **Committee Membership**

Peter Luttik updated on TC leadership.

- Kevin Muldoon unable to continue as vice chair. Ronnie Moffit agreed to step in.
- James Piscopo to remain secretary.
- Ralph Kittler stepping down from handbook, Saeed Moghaddam to take over.
- Craig Burg replaced by Jason Freudigmann for Standards
- Gayle Davis stepping down as web master. David Baird to take over.
- Alois remains for Research
- Tam stepping down from programs. Darrel Sandlin to take over.

Motion by James Bogart to approve new chairs to take effect after the 2024 summer meeting.

Second by Darrell Sandlin.

Motion passes 6-0-0.

Ben Heyser & Alois Malik asked to become voting members.

Motion by James Bogart to approve new voting members.

Second by Darrell Sandlin.

Motion passes 6-0-0.

Peter proposed that if Kevin Muldoon must step down as MTG.CEA liaison, Jason Warner to be new MTG.CEA liaison – Darrell Sandlin to be our alternate.

Liaison to new DOAS control research project led by TC1.4 to be Jason Freudigmann.

Liaison to TC5.5 to be James Piscopo.

Motion passes 6-0-0.

### **Chair Report (Luttik)**

Focus on developing international standards. Trying to get more involvement in 8.10 from high humidity regions where dehumidification is important.

Satish Kumar, Alliance for an Energy Efficient Economy. Works on standards in India.

Decarbonization Task Force to be replaced by Center of Excellence for Decarbonization. Will include DTGs (Decarbonization Task Groups).

Need to look into revising test conditions in 920 for climate zone 1A and heating modes.

Looking to do more technical papers. Moffit...need an unbiased selection process for paper reviews.

Currently only 2 reviewers and it's whoever gets there first.

### **Liaisons:**

#### MTG.CEA (Burg)

- nothing to report, meeting is simultaneous to our meeting. Will need help with handbook chapter, Craig to get them in touch with Saeed

#### SPC198 (Burg)

- not done yet, getting close. Making direct references to 37 instead of copying information from 37. Probably 6-8 weeks, hopefully out for public review before summer meeting, pending new version of 37 which is going back out for public review, 91 comments from first review. Ben is taking over as chair of SPC.

#### AHRI920 (Moffitt)

- Revisions include going through standard and identifying minor missing elements. Took out some requirements that were not beneficial to the customer. Allowed exceptions when elements met requirements of other standards such as UL. Combining 920 and 921 to one joint unit standard. 920 is probably going to be published as is but Luttik to provide comments on liquid desiccant testing for next revision.

#### Decarbonization Heating Guide (Luttik)

- Luttik shared documentation from NREL. Paper focused on large buildings with advanced operations teams. Does not apply to smaller applications. Peter looking for feedback on emerging issues. Anything we should be developing RTARs for? NREL is incorporating comments in 80% draft.

#### TC1.12 (Luttik)

- RTAR related to over-dehumidifying using desiccant system. 1.12 reviewing initial proposal. Also looking to develop 2<sup>nd</sup> addition of humidity design book.

### **Sub-Committees:**

#### Programs (Sandlin)

- spoke with Tam, Darrel went to program subcommittee training. One program taking place tomorrow, Seminar 60, 11:00 – 12:30. Indy – Panel, Seminar, Forum, Workshop...Feb 26, Papers March 14 (check dates online). Orlando...interesting tracks...equipment, ventilation and iaq, decarb (check website). 1.12 panel related to heating and minimum humidity levels, planning for indy. Peter would like to have seminar related to heating with liquid desiccant systems. Potential collaboration with 6.5 radiant heating and cooling related to DOAS + radiant.

#### Handbook (Moghaddam)

- finished desiccant chapter. Looking for someone in ASHRAE to help better quality images.

## Research

- 1566 – peter to followup with Alois. New PES was setup to review bids. Next RAC meeting in March. Jim Boggart to followup with Craig. Extremely important that PES does not meet for the vote without the research liaison which was the procedural issue that lead to the rejection.
- Peter sent RTAR about control of DOAS to allow terminal equipment to handle dehumidification under certain conditions. Provide comments.
- Potential RTAR about pressure control. Should DOAS also provide pressure control? And what is a reasonable pressure recommendation? John Bade...comment came up on 90.1 addendum discussing the high levels of pressurization required by GSA. 90.1 response was that excessive pressurization was not beneficial for preventing infiltration and humidity transfer. (get name) to followup with peter on potentially doing more research.
- Decarbonization heating guid...review list peter sent out, to be discussed at summer meeting.

## Standards (Jason Freudigmann)

- Jason to followup with Craig about reaffirmation process for 174 and 139. Both were reaffirmed in 2022.
- 190 is dated 2020 and should probably reaffirmed.

## Website (Baird)

- No update

## **NEW BUSINESS:**

1. Peter to circulate 8.10 objectives for comment. To be voted on by letter ballot after 2-3 weeks or review.

Motion to adjourn – Jim Bogart

Second – Darrell Sandlin

Adjourned 6:14 pm