

Mechanical and Desiccant Dehumidification Equipment, Heat Pipes and Components

8.10 Subcommittee Meeting

Tuesday June 16, 2026

1:00 – 4:00pm CDT (2:00 – 5:00pm EDT)

Call to Order

ASHRAE Code of Ethics

“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”.

Introduction of Members and Guests

Determination of Quorum

	Ronnie Moffitt	7/1/25 – 6/30/27		Benjamin Heyser	7/1/25 – 6/30/28
	Jason Warner	7/1/25 – 6/30/29		Darrell Sandlin	
	Saeed Moghaddam	7/1/24 – 6/30/28		Alois Malik	7/1/24 – 6/30/28
	Jason Freudigmann	7/1/24 – 6/30/28		David Baird	7/1/24 – 6/30/28
	Lucas Roy	7/1/25 – 6/30/29		Lavanya Jakka	7/1/25 – 6/30/29
	David Simkins	7/1/25 – 6/30/29		Michael Gillespie	7/1/25 – 6/30/29
	James Bogart			Eric Kozubal (VNQ)	7/1/25 – 6/30/27
	William Worek (VNQ)	7/1/25 – 6/30/29			

Minutes of Last Sub-Committee Meeting

Subcommittees:

Programs Subcommittee (Darrell Sandlin)

- **Sponsored presentations for 2026 Annual Conference – Austin, TX**
 - Seminar 30: Next-Generation Ventilation and Dehumidification for Energy-Constrained Facilities (Chair Darrell Sandlin) [Monday June 29, 9:45-10:45]
 - Saeed Moghaddam - “Advancements in Semi-Open Cycle Using Ionic Liquids for Energy-Efficient Ventilation Air Treatment”
 - Lavanya Jakka - “Outdoor Air Treatment in Healthcare: The Role of Liquid Desiccant Systems”
 - Yeshwant Karkhanis - “LDDS: Yesteryear’s Technology, Engineered for Today”
 - Seminar 34: Liquid Desiccant Dehumidification: Practical Applications for Practical Engineers (Chair Darrell Sandlin) [Monday June 29, 11:00-12:00]
 - Aaron Meles – “Liquid Desiccant 101: Applying LDAC Technology in High Performance Commercial Buildings”
 - Jason Warner – “Evaluating Recent Field Trials for State-of-the-Art Liquid Desiccant Dedicated Outdoor Air Systems (LD-DOAS)”
 - Matt Tilghman – “Unlocking Liquid Desiccants As a Distributed Energy Resource”
 - Co-sponsoring Panel 12: HVAC/D Solutions for Indoor Cultivation: A Comparative Look (Chair Nadia Sabeh) (Sponsored by TC 2.2 Plant and Animal Environments)

- **2027 ASHRAE Winter Conference, Chicago, IL (January 23 ~ 27, 2027)**

Proposed Technical Tracks (9):

- Fundamentals and Applications
 - HVAC&R Systems and Equipment
 - Refrigeration & Refrigerants
 - Research Summit
 - **Residential HVAC Research and Demonstration**
 - Thermal Network Systems and Energy Storage
 - Nexus of Real and Artificial Intelligence
 - Decarbonization Retrofits
 - Application Notes in Professional Practice
- Upcoming Deadline for 2027 Winter Conference Presentations:
 - May 27, 2026 | Conference Paper Abstracts Due
 - June 17, 2026 | Abstract Accept/Reject Notifications
 - **August 3, 2026 | Debate, Panel, Seminar, Forum, Workshop Proposals Due**
 - September 2, 2026 | Conference Papers and Extended Abstracts Due
 - September 23, 2026 | Conference Papers/Extended Abstracts Notifications
 - **October 2, 2026 | Debate, Panel, Seminar, Forum, Workshop Scheduling Notifications**
 - October 7, 2026 | Revised Conference Papers Due
 - October 26, 2026 | Conference Paper Final Accept/Reject Notifications

Handbook Subcommittee (Saeed Moghaddam)

- 2025 Fundamentals
 - Chapter 32 – Sorbents and Desiccants (Due 3/15/28)
- 2026 Refrigeration
- 2027 HVAC Applications
- 2028 HVAC Systems and Equipment
 - Chapter 24 – Desiccant Dehumidification and Pressure-Drying Equipment (Due 3/21/27)
 - Chapter 25 – Mechanical Dehumidifiers and Related Components (Due 7/11/27 – target 6/1/27)
 - Chapter 51 – Dedicated Outdoor Air Systems (Due 7/31/27 – target 6/1/27)

Research Subcommittee (Alois Malik)

- RP 1566 – “Equations to estimate evaporation rates from heated water pools in indoor recreational aquatic facilities”
 - Work in process at Oklahoma State University
- RP 1865 DOAS Supply Air Temperature (Co-Sponsor with TC 1.4)
- RP 1901 Determination of Latent Loads from Crops (Co-Sponsor with TC 2.2)
- RP 1981 – “Research minimum relative humidity levels in buildings to support occupant health and productivity.” (Co-sponsor with 5.11)
 - Voted to co-sponsor at 2025 Winter Meeting in Orlando
- Co-sponsored RTAR heating and humidification max humid levels for building types, outside air conditions (1.12 lead)

Standards Subcommittee (Jason Freudigmann)

- ASHRAE Standard 198-2013, Method of Test for Rating DX-Dedicated Outdoor Air Systems for Moisture Removal Capacity and Moisture Removal Efficiency
- ASHRAE Standard 174-2022, Method of Test for Rating Desiccant-Based Dehumidification Equipment
 - Due for revision or reaffirmation
- ASHRAE Standard 139-2025, Method of Testing for Rating Desiccant Dehumidifiers Utilizing Heat for the Regeneration Process
- ASHRAE Standard 190-2022, Method of test for Rating Indoor Pool Dehumidifiers
 - Due for revision or reaffirmation

Motion to Adjourn