



MINUTES

DRAFT

TC8.03 Absorption and Heat Operated Machines

2023 ASHRAE WINTER MEETING - ATLANTA
Hybrid

Monday, February 6, 2023: 1:00 – 3:00 PM (ET)
Location: Omni CNN Center, Hickory (M3-North); MS Teams

TC8.03 Subcommittee Meeting (Research/Program/Handbook) – Thursday, January 26, 2023 at 1:30-3:30 PM (ET)
Location: MS Teams

Note: These draft minutes have not been approved and are not the official, approved record until approved by the Technical Committee.

Minutes

1. Call to order

Ziviani

Meeting was called to order at 1:05 p.m.

2. Review Scope

Ziviani

Technical Committee 8.03 is concerned with the design, performance and application of equipment energized by a heat source and using a thermodynamic cycle to provide an air-conditioning, refrigerating or heating function; with the properties of absorbent solutions or special working fluids used in these cycles; and with components of the cycle requiring specific design characteristics.

3. ASHRAE Code of Ethics Commitment

Ziviani

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. (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>)

4. Introductions

All
Fronk

- a. Establishment of a Quorum

VOTING MEMBERS FOR THIS MEETING (Need 4 for a Quorum)

VOTING MEMBERS FOR THIS MEETING

	Douglas Davis	(6/2025)	x	Davide Ziviani, Chair	(6/2022)
X	Brian Fronk	(6/2024)			
x	Kyle Gluesenkamp	(6/2024)			
X	Christopher Keinath	(6/2024)			
X	Jay Kohler	(6/2024)			

The TC presently has 6 voting members. A roll call of the voting members was taken, and a quorum was/was not established with 4 of 6 Voting Members present with chair non-voting.

- b. Total Attendees: 12 (In person) and 16 (online); 2 new member; YEA members: 2

5. Agenda additions

All

[Davide Ziviani] Basecamp TC8.3

6. Liaison reports (as they arrive)

Liaisons

TAC Section 8 Head
RAC Liaison Section 8

Charles Henck
Carl Huber

Charles Henck briefly reported on updates from TAC

7. Minutes Approval

Ziviani

Motion to approve the minutes from 2022 Annual Hybrid meeting: Brian
Second: Jay
The motion passed. (4-0-0-1, CNV)

8. Chair's Report

Ziviani

- **TC Chairs' Breakfast & Training Meeting** (Sunday February 5, 2023). Chair attended the meeting.
 - Slides to be uploaded to Basecamp
 - New research proposals should align with ASHRAE strategic goals (until 2025)
 - ASHRAE.org/decarb
 - New RTARs etc. should target these initiatives
 - Hightower Awards from 2022 and 2023 announced
 - CEC 2023 Winter program updates shared

- 1 Debate; 2 Forums; 4 Panels; 72 Seminars (4 AHRI Expo Sessions); 2 Workshops; 109 Paper Sessions
 - International Standards Interactions Task Force looking for members with experience in an overseas market. Contact TACVChair@ashrae.net
 - Task Force for Building Decarbonization structure announced and presented
- **Research Subcomm. Chair's Breakfast** (Monday June 6/27/2022): **Kyle and Davide attended the meeting**
 - Report from Research Subcomm. Chair's Breakfast (Monday Feb 6th, 6:30 – 9:15 am EST)
 - Grants that were previously paused are now back available (GIA, IRG, NIA)
 - SY2022-2023 Budget: \$5.5M
 - Currently 42 active projects: active cost of \$150k, total value of \$6.2M
 - Only 3 RTARs this meeting – encouraged increased activity here, aligned with ASHRAE strategic objectives
 - Report on UAE project proposal [Davide Ziviani/Brian Fronk]

9. Membership/Roster

Doug Davis

- a. Davide Ziviani continued to clean up the roster and update contacts.
- b. TC leadership and current positions held by various members were reviewed.
 - **Chair will roll-off 06/2023. Brian Fronk will become Chair and Haotian Liu Vice-Chair**
 - **Saeed Moghaddam to substitute Kyle Gluesenkamp as Research Subcomm. Chair**
- c. Added new voting members from **07/2023**:
 - **Bill Ryan**
 - **Saeed Moghaddam, UFL**

10. Subcommittee reports

a. Programs

Bill Ryan

- Discussion on Seminar 66 (scheduled on Wednesday Feb 8th, 2023)

2023 Tampa Annual Conference. Tracks:

Track 1: HVAC&R Systems and Equipment (Track Chair: Ng Yong Kong)
 Track 2: Fundamentals and Applications (Track Chair: Brian Fronk)
 Track 3: Research Summit (Track Chair: Davide Ziviani)
 Track 4: Pathways to Net Zero Energy and Decarbonization (Track Chair: Rafi Karim)
 Track 5: Future-Proofing the Built Environment (Track Chair: Scott Peach)
 Track 6: Building Automation and Control (Track Chair: Raul Simonetti)
 Track 7: Professional Development and Education (Track Chair: Ahmed Abdel-Salam)

Debate, Panel, Seminar Form, Workshop Proposals Due: **February 25, 2023**

Motion (Title/track) Forum: **Thermally Driven Heat Pumps for Low Carbon Grid Resilience / Track 5**; Will Ryan
 Second: Brian Fronk
 Vote: approved **(4-0-0-1 CNV)**

b. Research

Kyle Gluesenkamp

- 2021 ASHRAE Research Strategic Plan
 (Link: <https://www.ashrae.org/technical-resources/research>)
- Ongoing RTAR/WS/TRP:
 - **WS-1796**: Application Guide for Absorption Chillers and Heat Pumps
Suggestion from Chris Seeton to submit as PTAR.
 - **WS-1842**: Development of Co-Generation Tools for Building Designers (eQuest):
Resubmit WS with updates.
[Kyle/Davide/ Haotian] Update WS to remove eQuest specific package.
- New research ideas aligned with Research Strategic Plan:

- Discussion on trying to improve industry representation to prompt research ideas, rather than coming from academia. Potential candidates were JCI.
- Research topics of assessment of thermally driven and barriers to market and entry and interface of thermally driven system with distributed renewables.

c. Handbook

Juergen Sharfe

[Davide Ziviani] Two manuscripts:

- Application Guide for Absorption Cooling/Refrigeration Using Recovered Heat (1995) – RP-773

Notes from Subcomm. meeting: seeking for support on drafting PTAR proposal. Doug volunteered to help Davide. Proposed a new title “Application Guide for Thermal Cooling and Refrigeration Systems”

Fundamentals Chapter 2 needs to be reworked.

d. Standards

Jay Kohler

- SPC 40 – [Ahmad AbuHeiba]: Currently working on the draft of the document and it is expected to go out for public review on or around Nov 30, 2022
[Jay] Suggested to send the draft to TC8.3 for comments
- SPC 182
 - Updates from Amit Vatsa on membership.

e. Website

Chris Keinath

- Website is up-to-date
- Research Projects was said to be taken up by Kyle and he confirmed to investigate it.

11. Old Business

- a. The Chair asked opinions from the members if anything is pending from old meetings.
None

12. New Business

None

13. Adjournment

Motion to adjourn made by Brain and seconded by Jay.

- Meeting was adjourned at 2:45 p.m. (ET)