



## MINUTES

**APPROVED**

### ***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

**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 Charles Henck  
 RAC Liaison Section 8 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](mailto: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 8<sup>th</sup>, 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)