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Technical Committee 8.01 – Positive Displacement Compressors

TC8.01 Website: [Link](#)

AGENDA [DRAFT] – 2024 ASHRAE Winter Meeting, Chicago IL

Main Committee [Hybrid]: Tuesday, Jan 23, 2024 3:30 – 5:30 PM CST (4:30-6:30 PM EST)

In Person Location: Marriott Marquis Chicago, Shedd AB (2)

Zoom Info:

<https://purdue-edu.zoom.us/j/96585544245?pwd=aGpSTU5wbkxINTk0dzB3NjZrNXZqUT09>

Meeting ID: 965 8554 4245

Passcode: 485947

1) Call to Order – Davide Ziviani (Chair)

- Introductions
- Minutes – **Riley Barta (Secretary)**
- Establishment of Quorum (13 VMs) - **Jim Douglas (Membership Chair)**
- Joint TC8.1&TC8.2 Subcomm meeting attendance: TBD

2) ASHRAE Code of Ethics Commitment: 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>.)

3) Review and Approval of the 2023 ASHRAE Annual Meeting in Tampa Minutes

4) Liaison Report (as they arrive)

- Section 8 Head (TBD)
- Research Liaison (Carl Huber)
- Others

5) Report on TC/TG Section 8 Chair's Breakfast Meeting – Davide Ziviani

6) Standards – Jim Douglas (Chair)

- **Standard 23-2022, Methods for Performance Testing Positive Displacement Refrigerant Compressors and Compressor Units.** Standard 23-2022 will be due for periodic maintenance (Revise, Reaffirm, or Withdraw) at the 2025 ASHRAE Winter Conference. TC 8.01 will likely vote to approve Reaffirmation of this standard during the TC 8.01 meeting at this conference.
- **Standard 41.4-2015, Standard Methods for Measurement of Proportion for Lubricant in Liquid Refrigerant.** SSPC 41 Subcommittee 41.4-2015R, chaired by Jim Douglas, will meet in early January 2024. The goal of this subcommittee is to reach consensus on the 41.4-2015R 1st Publication Public Review draft during the 2024 ASHRAE Annual Conference.

- **Standard 41.9-2021, Standard Methods for Refrigerant Mass Flow Measurement Using Calorimeters.** Standard 41.9-2021, chaired by Michael Perevozchikov, is due for periodic maintenance (*Revise, Reaffirm, or Withdraw*) at the 2024 ASHRAE Winter Conference. SSPC 41 voting members will vote to Revise Standard 41.9-2021 during the SSPC 41 meeting at the conference.
- **Standard 41.10-2024, Standard Methods for Refrigerant Mass Flow Measurement Using Flowmeters.** Standard 41.10-2024, chaired by Pat Collins, will be published within the next few months. This is the first version of this standard that includes supercritical refrigerant flow measurements in addition to subcritical refrigerant flow measurements. Thanks to Scott MacBain for providing technical guidance for the content regarding supercritical refrigerant flow measurements.
- **Discussion on Std. 225/23 & Ad-Hoc Committee/WG**

8) Program - Erik Anderson (Chair)

- TC 8.1 sponsored in Chicago:
 - **Seminar 41 (Intermediate; Jan 23 9:45-10:45am CST), “Natural Refrigerants in Refrigeration: Regulations and Applications”** (Chair: Davide Ziviani). Co-Sponsor: TC8.2
 - **[Not Selected]** Title: “Advanced Compressor Modeling and Analysis”. Chair: Craig Bradshaw
- For 2024 Annual Conference in Indianapolis, IN:
 - Track 1: Fundamentals and Applications (Track Chair: Attila Biyikoglu)
 - Track 2: HVAC&R Systems and Equipment (Track Chair: Ng Yong Kong)
 - Track 3: Research Summit (Track Chair: Kristin Cetin)
 - Track 4: Professional Development (Track Chair: Ahmed Abdelsalam)
 - Track 5: Electrification: Possibilities and Pitfalls (Track Chair: Kevin Brown)
 - Track 6: Artificial Intelligence and the Built Environment (Track Chair: Vinod Venugopal)
 - Track 7: Building Life Cycle Assessment (Track Chair: Money Khanna)
 - Track 8: Legislation, Standards, Codes and Guidelines (Track Chair: Cindy Callaway)

9) Research – Matt Cambio (Chair)

- Report from Research Subcomm. Chair’s Breakfast (Location/Time: Monday Jan 22nd, 7:00 – 9:15 am CST; Marriott Marquis Chicago, Grand Horizon B(4))
- **WS-1793 – Motor cooling research/thermal conductivity method of test**
- **1879-RP – Foamability properties of LGWP refrigerants**

10) Handbook – Scott MacBain (Chair)

- TC8.1 Refrigeration Chapter 8-factory Dehydrating, Charging & Testing (revision due 2026)
- TC8.1&8.2: 2024 HVAC Systems and Equipment: Chapters 38 (Compressors) and 43 (Liquid Chilling Systems) for revision in 2024 (due July 2023). Submitted Fall 2023.

11) Membership - Jim Douglas (Chair)

- 4 VM rolling off 06/2024 – Discussion in Chicago

12) Website – Eric Berg (Chair) Up to date.

13) Old Business

14) New Business

- TC Awards Chair?!

15) Adjourn

