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Technical Committee 8.01 – Positive Displacement Compressors

TC8.01 Website: [Link](#)

AGENDA – 2023 ASHRAE Winter Meeting, Atlanta GA

Main Committee [Hybrid]: Tuesday, February 7th, 2023 at 3:30 PM – 6:00 PM EST

In Person Location: Omni CNN Center, Oak (Lobby-South)

MS Teams Info:

Meeting ID: 210 025 856 778

Passcode: Uxbe7d

<https://events.rdmobile.com/Sessions/Details/1612540>

1) Call to Order – Davide Ziviani (Chair)

- Introductions
- Minutes – **Riley Barta (Secretary)**
- Establishment of Quorum (13 VMs) - **Jim Douglas (Membership Chair)**

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 2022 ASHRAE Annual Meeting in Toronto Minutes

4) Liaison Report (as they arrive)

- Section 8 Head (Charles Henck)
- Research Liaison (Carl Huber)

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

6) Standards – Jim Douglas (Chair)

- **Standard 23P, *Methods for Performance Testing Positive Displacement Refrigerant Compressors and Compressor Units*.**
 - Standard 23-2022, that combines Standards 23.1-2019 and 23.2-2019 into a single standard, has been published.
- **Standard 41.4, *Standard Methods for Measurement of Proportion for Lubricant in Liquid Refrigerant*.** SSPC 41 Subcommittee 41.4-2015R, chaired by Jim Douglas
 - Held a virtual meeting on 5/3/22 to review the testing progress on a new apparatus for sampling refrigerant/lubricant mixtures out of the liquid line.
 - Additional virtual meeting to be held in October 2022.
- **Standard 41.9, *Standard Methods for Refrigerant Mass Flow Measurement Using Calorimeters***
 - In public review until August 8th
 - Addendum A added

- **Standard 41.10, Standard Methods for Refrigerant Mass Flow Measurement Using Flowmeters.**
 - Vote passed on title, purpose, and scope in Toronto.
- **Standard 225-2020, Method for Performance Testing Centrifugal Refrigerant Compressors and Condensing Units** – Up for maintenance, vote to either “reaffirm”, “revise” or “withdraw”
 - From 2022 Annual Meeting in Toronto: Motion passed to transfer ownership to TC8.2
- **Standard 30-2019, Method of Testing Liquid Chillers**
- **ISO/TC 86/SC 4**
 - WG2-Positive displacement rating standard
 - WG3-Centrifugal compressor standard (based on AHRI 1520 and JB/T 12843)
 - WG4-ISO 917

8) Program - Erik Anderson (Chair)

- TC 8.1 sponsored in Atlanta:
 - **Seminar 8 (Intermediate)**, “Back to Basics: Compressor and System Integration Strategies and Modulation” (Chair: Davide Ziviani). Co-Sponsor: TC8.2
 - **Seminar 62 (Intermediate)**, “The Risk of Decoupling Efficiency and Decarbonization” (Chair: Craig Bradshaw). Co-Sponsor: TC8.2 and Decarbonization MTG
- For 2023 Annual Conference in Tampa:
 - 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)

9) Research – Matt Cambio (Chair)

- Report from Research Subcomm. Chair’s Breakfast (Monday Feb 6th, 6:30 – 9:15 am EST)
- **WS-1793 – Motor cooling research/thermal conductivity method of test**
- **1879-TRP – Foamability properties of LGWP refrigerants**
- RTARs ideas from Toronto:
 - i) Assessment of Extrapolation Capabilities and Uncertainty Quantification of Multi-Refrigerant Semi-Empirical Compressor Models [Davide to initiate the RTAR draft]
 - ii) Decarbonization, high temperature heat pumps

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 May/July 2023)

11) Membership - Jim Douglas (Chair)

12) Website – Eric Berg (Chair)

13) Old Business

14) New Business

15) Adjourn