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Technical Committee 8.01 – Positive Displacement Compressors
AGENDA – 2022 Winter Conference
Tuesday, February 1st, 2022 at 3:30 PM – 6:00 PM PST

Hybrid Delivery

In Person Location: Caesars Palace, Florentine II (P):

Virtual: <https://ashrae.webex.com/ashrae/j.php?MTID=m5eb872d0158ba6eb98bd8ba44adead6f>

Meeting number:

2334 919 6654

Password:

TC8.1

Join by phone

18662994153 United States of America Toll Free

+14702385742 US Toll

Access code: 2334 919 6654

1) Call to Order – Craig Bradshaw (Chair)

- Introductions
- Establishment of Quorum (12 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 Virtual Winter Meeting Minutes

4) Liaison Report

5) Report on TC/TG Section 8 Chair’s Breakfast Meeting – Craig Bradshaw

6) Standards – via Rick Hall for Jim Douglas (Chair)

- **Standard 23.1, *Methods of Test for Rating the Performance of Positive Displacement Compressors and Condensing Units that Operate at Subcritical Pressures of the Refrigerants*. Standard 23.1-2019 is a published standard.**
- **Standard 23.2, *Methods of Test for Rating the Performance of Positive Displacement Compressors and Compressor Units that Operate at Supercritical Pressures of the Refrigerants*. Standard 23.2-2019 is a published standard.**
- **Standard 23, *Methods for Performance Testing Positive Displacement Refrigerant Compressors and Compressor Units*. Standard 23-2022, which combines Standards 23.1-2019 and 23.2-2019 into a single standard, is the process of being 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, will meet virtually in February (2022) to review the test results from the newest lubricant sampling apparatus.**
- **Standard 41.9, *Standard Methods for Refrigerant Mass Flow Measurement Using Calorimeters*. Standard 41.9-2021 is a published standard. Congratulations to Michael**

Perevozchikov, the 41.9-2018R revision subcommittee chair and the members of his subcommittee.

- **Standard 41.10, *Standard Methods for Refrigerant Mass Flow Measurement Using Flowmeters*.** Standard 41.10-2020 Addendum a. is being published and can be downloaded at no cost from the ASHRAE website. Standard 41.10-2020 Addendum b. is currently in the queue for public review.
- **At the 2022 ASHRAE Winter Conference in Las Vegas, ASHRAE is asking TC 8.01 to select 1 of 3 alternatives (Revise, Reaffirm, or Withdraw) for periodic maintenance on both Standards 23.1 and 23.2.**
- ***Motion: Do you, as a voting member of TC 8.01, approve the withdrawal of Standards 23.1 and 23.2 shortly after Standard 23-2022 is published?***

7) Program - Erik Anderson (Chair)

- Programs at the Las Vegas conference
 - Seminar 37: “Reduced Order Modeling for HVAC&R Systems and their Components” at 8AM Wednesday, February 2nd. TC 8.2 is co-sponsoring this seminar.
 - Seminar 31: “High Efficiency Variable Speed Pumping Systems and Integration Challenges with Chiller Plant Design” at 11AM Tuesday, February 1st (co-sponsored)
 - Seminar 41: “Design Challenges to the Electrification of Heating in Mid to Large Buildings” at 11AM Wednesday, February 2nd (co-sponsored)
- Ideas for Toronto
 - Electrification in Heating Seminar
 - Co-sponsorship with TC 8.2
 - (1) Advances in digital twins
 - (2) Low flow tubes

8) Research – Davide Ziviani (Chair)

- WS 1793 (motor cooling research / thermal conductivity, co-sponsored with TC 8.2)
- TRP 1879 “Foamability Properties of LGWP Refrigerant and Oil Mixtures” (co-sponsored with TC 3.4)
- Craig Bradshaw and Davide Ziviani submitted a URP to ASHRAE to support compressor development titled: “The future of compressor technologies for air-conditioning applications with near zero-GWP refrigerants”

9) Handbook – Scott MacBain (Chair)

- Chapter 8 – Factory Dehydrating, Charging & Testing
- Chapter 38 (Compressors) and 43 (Liquid Chilling Systems) due in 2024
 - i) 9 volunteers (Ziviani, Bradshaw, Perevozchikov, Heiden, MacBain, Betz, Turner, Hunt, Duda)

10) Membership - Jim Douglas (Chair)

- New secretary, Alex Schmig

11) Website – Eric Berg (Chair)

12) Old Business

13) New Business

- <https://3.basecamp.com/3106353/join/e1naKWu2ilma>

14) Adjourn