



ASHRAE American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Technical Committee 3.2 – Refrigerant System Chemistry and Contaminant Control

Agenda Winter Conference 2023 Atlanta (Hybrid)

Tuesday February 7th, 2023 – 3:30 to 6:00 pm (EST)

Omni CNN Center, Birch (A-South)

Log in information provided below for virtual attendees

Name	Affiliation	Voting Member
Joe Karnaz – Chair	Shrieve	Yes
Valerie Lisi - Vice Chair	Carrier	No
Casey Scruggs – Research	Metalloid	Yes
Ivan Rydkin – Handbook	Daikin	Yes
Dave Vincent - Webmaster	BVA	Yes
Sheli Porter - Standards	Stellar Laboratories	Yes
Greg Smith	Honeywell	Yes
Ed Hessell	Lanxess	Yes
Julie Majurin	AHRI	Yes
Brad Boggess	Emerson	Yes
Steve Kujak	Trane Technologies	Yes
Justin Allemann	Parker Hannifin	Yes
Bob Low	Koura	Yes MNQ
Steve Baker - Secretary	Emerson	No
Shelby Kent - Programs	Shrieve	No
Marc Scancarello - MTG Low GWP	Emerson	No
Chris Campo - ALI	Shrieve	No
Rashid Zakeri – MTG Sustainable RAC	Circle Proscio	No

Virtual Meetings and Conference Log-in Information

TC 3.2 Meeting (Hybrid) – February 7th, 2023 3:30 pm – 6:00 pm (EST)

Link for Virtual Attendees: <https://ashrae.webex.com/ashrae/j.php?MTID=m8de18bce4cdf2b19b63bc3e729d29f95>

Additional details if needed or Join via Phone– Meeting Number 2338 000 2146; Password gsDkB6fan94; Join by phone 18662994153 United States of America Toll Free +14702385742 US Toll Access code: 2338 000 2146

TC 3.1, TC 3.2, TC 3.4 & TC 3.8 Combined Research and Program Virtual Meeting – January 24th, 2023 2:00 pm – 4:00 pm (EST)

Link for Attendees: <https://ashrae.webex.com/ashrae/j.php?MTID=m2652e962babca0535eac7cab1ff5d371>

Meeting number: 2346 652 9884 Password: S5i4wTaV8NC; Join by phone 18662994153 United States of America Toll Free +14702385742 US Toll Access code: 2346 652 9884

The schedule of all virtual meetings, technical programs and other meetings can be found at [online conference schedule](#) with login information and instructions. You can also access via the ASHRAE website <http://www.ashrae.org/2023winter> which provides an overview of the meeting including registration.

1.) Call to Order (**Joe Karnaz**)

- Virtual conference housekeeping
- Introduction of members and guest
- Meeting Sign-in

2.) ASHRAE Code of Conduct - <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

3.) Confirmation of Quorum (**Joe Karnaz**)

4.) Approval of TC 3.2 2023 Winter Conference Hybrid Meeting Agenda (**Joe Karnaz**)

5.) Approval of TC 3.2 2022 Annual Hybrid Meeting Minutes (**Joe Karnaz**)

6.) Report of TC Chair's Breakfast Meeting (**Joe Karnaz**)

7.) Liaison Comments (may be adjusted to accommodate the Liaison's schedule)

8.) Subcommittee Reports

Programs (**Shelby Kent**)

TC 3 Combined Programs Meeting on January 24th from 2pm to 4pm EST

Review of Sponsored, Co-sponsored or programs of interest for this meeting

Sponsor Seminar 10: Low GWP Refrigerants and the Lessons Learned from the Past
Sunday Feb 5 9:45-10:45am (Georgia World Congress Center, A402)

Co-Sponsor Seminar 30: Continued Evolution of Lubricants for HVAC
Monday Feb 6 9:45-10:45am (Georgia World Congress Center, A403)

Programs of Interest

AHR Expo Session 1: Low GWP Refrigerant Advancements for Decarbonization Part 1
AHR Expo Session 2: Low GWP Refrigerant Advancements for Decarbonization Part 2
AHR Expo Session 3: Low GWP Refrigerant Advancements for Decarbonization Part 3

- Update from Program Subcommittee Meeting.
- Timeline for program submission
- Programs Ideas and Discussion of Future Programs:
 - o Tampa Annual 2023
 - o Chicago Winter 2024

Handbook (**Ivan Rydkin**)

- Updates on Handbook activities and meetings – Committee volunteers for 2026 Handbook
- Chapter 6 *Refrigerant System Chemistry*
- Chapter 7 *Control of Moisture and Other Contaminants in Refrigerant Systems*

Standards (Sheli Porter)

Updates:

- **GPC 38** “*Metal Pressure Vessel Testing to Test Materials Used with Refrigeration Systems*”
- **SPC 97** “*Sealed Glass Tube Method to Test Chemical Stability of Materials for Use Within Refrigerant Systems*”
- **SPC 35** “*Method of Testing Desiccants for Refrigerant Drying*”
- **SPC 63.2** “*Method of Testing Liquid Line Filter Drier Filtration Capacity*”
- **SPC 78** “*Method of Testing Flow Capacity of Suction Line Filters and Filter Driers*”
- **SPC 219** “*Method of Testing Acid Filters*”
- **New Ideas for standards or guidelines**

Research (Casey Scruggs)

TC 3 Combined Research Meeting on January 24th from 2pm to 4pm EST

Current Research Activities Updates:

- **RTAR 1856** – “*Determine the Effect and Allowable Limits of Moisture and Contaminants in CO₂ Systems*”
- **RTAR 1886** – “*Kinetic and Mechanistic Studies of the Breakdown of HFO Refrigerants*”
- **RTAR 1897** – “*HFO Refrigerant Compatibility with AGED Lubricants and Contaminants*”
- **WS 1790** – “*Distribution of Water between Vapor and Liquid Phases of Low GWP Refrigerants*”
- Update from Research Subcommittee Meeting
- Review discussion from Toronto on materials of construction research idea
- Others – Any research needs and gaps from review of Handbook Chapters
- Future Research needs and New Research ideas

Webmaster (Dave Vincent)

Website Update

9.) MTG Lower GWP Refrigerants TC 3.2 and TC 3.4 (**Marc Scancarello**)

Update: Recent activity

10.) MTG Sustainable RAC (**Rashid Zakeri**)

Update: Recent activity

11.) Membership (**Joe Karnaz**)

- Rollover Roster Discussion
- Committee changes

Roster: Anyone interested in becoming a corresponding member please go to the ASHRAE website and join as a Provisional Member:

12.) Old Business (**Joe Karnaz**)

13.) New Business (**Joe Karnaz**)

14.) Adjournment