



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

Technical Committee 3.2 – Refrigerant System Chemistry and Contaminant Control

Agenda Winter Conference 2022 Las Vegas (Hybrid)

Tuesday February 1st, 2022 – 3:30 to 6:30 pm (PST)

Caesars Palace Pompeian I

Log in information provided below for virtual attendees

Name		Affiliation
Voting Members		
Joe Karnaz – Chair	2022	Shrieve
Valerie Lisi - Vice Chair (Acting)	2022	Carrier
Brad Boggess – Programs	2025	Emerson
Casey Scruggs – Research	2023	Metalloid
Ivan Rydikin – Handbook	2024	Daikin
Greg Smith	2024	Honeywell
Ed Hessell	2025	Lanxess
Julie Majurin	2023	AHRI
Rosine Rohatgi	2022	Spauschus
Jian Sun-Blanks	2022	Chemours
Justin Allemann	2024	Parker Hannifin
John Senediak	2022	Intertek
Elyse Sorenson	2022	Trane
Sheli Porter	2025	Stellar Laboratories
Non-Voting Members		
Steve Baker - Secretary		Emerson
Rob Yost - Standards		National Refrigerants
Dave Vincent - Webmaster		BVA
Marc Scancarello - MTG Low GWP		Emerson
Chris Campo - ALI		Shrieve
Rashid Zakeri – MTG Sustainable RAC		Circle Proscio

Virtual Meetings and Conference Log-in Information

TC 3.2 Meeting (Hybrid) – February 1st, 2022 3:30 pm – 5:30 pm (PST)

Link for Virtual Attendees: <https://ashrae.webex.com/ashrae/j.php?MTID=m3efaecd42862e00020d3efa5d077a18e>

Additional details if needed – Meeting Number 2332 531 3015; Password TC3.2

TC 3 Combined Research Virtual Meeting – January 18th, 2022 1:00 pm – 2:00 pm (EST)

Link for Attendees: <https://ashrae.webex.com/ashrae/j.php?MTID=m91e1509b6b9b945238474a158dcd94d1>

TC 3 Combined Programs Virtual Meeting – January 18th, 2022 2:00 pm – 3:00 pm (EST)

Link for Attendees: <https://ashrae.webex.com/ashrae/j.php?MTID=m91e1509b6b9b945238474a158dcd94d1>

The schedule of all virtual meetings, technical program and registration can be found at ashrae.org/2022winter

Please note – to accommodate some scheduling overlap of the TC 3.2 seminar (AHR Expo Session 4) and TC 3.4 committee meeting along with timing of the virtual meeting for people on the east coast, the chairs of TC 3.2 and TC 3.4 have met and decided to run a combined meeting for common topics with separate TC related discussions to meet during the previously scheduled TC 3.2 timeslot plus one additional hour. This format has been approved by ASHRAE. The agenda sent out for TC 3.4 will also reflect this combined meeting.

1.) Call to Order (**Greg Smith and Joe Karnaz**)

- Virtual conference housekeeping
- Introduction of members and guest

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

3.) Confirmation of Quorum (**Joe Karnaz/Steve Baker**)

4.) Approval of TC 3.2 2022 Winter Meeting Agenda (**Joe Karnaz**)

5.) Approval of TC 3.2 2021 Annual Virtual Meeting Minutes (**Joe Karnaz**)

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

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

8.) Subcommittee Reports

Programs (**Brad Boggess**)

TC 3 Combined Programs Meeting on January 18th from 2pm to 3pm EST

Review of Sponsored, Co-sponsored or programs of interest

AHR Expo Session 4 "System and Contaminant Control with Low GWP Refrigerants" Tuesday February 1st, 2022 Las Vegas Convention Center Rooms N235/N237

Co-Sponsor Seminar 18 sponsored by TC 3.4 "Lubricants for New Low GWP Refrigerant Candidates" Monday January 31st, 2022 Caesars Palace Augustus III/IV

- Update from Program Subcommittee Meeting.
- Timeline for program submission
- Discussion of Future Programs:
 - o Toronto Annual 2022
 - o Atlanta Winter 2023
 - o Tampa Annual 2023

Handbook (**Ivan Rydkin**)

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

Standards (Rob Yost)

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 June 9th from 3pm 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
- Others – Any research needs and gaps from review of Handbook Chapters
- Future Research needs and New Research ideas

Webmaster TC 3.2 and TC 3.4 (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

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**)

- Discussion on subcommittee vice-chair positions

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

14.) Adjournment