



---

### Technical Committee 3.2 – Refrigerant System Chemistry and Contaminant Control

Agenda - Winter Conference 2024 Chicago (Hybrid)

Tuesday, January 23<sup>rd</sup> – 3:30 to 6:00 pm (CST) Marriott Marquis Chicago, Anthropology (2)

*Those highlighted in yellow were present.*

| Name                                | Affiliation          | Voting Member |
|-------------------------------------|----------------------|---------------|
| Julie Majurin – Chair               | Daikin               | Yes           |
| Morgan Leehey - Vice Chair          | Trane Technologies   | Yes           |
| Steve Kujak – Secretary             | Trane Technologies   | No            |
| Casey Scruggs – Research            | Trane Technologies   | No            |
| Shelby Kent – Programs              | Shrieve              | No            |
| Ivan Rydkin – Handbook              | Daikin               | No            |
| Sheli Porter – Standards            | Stellar Laboratories | Yes           |
| Dave Vincent – Webmaster            | BVA                  | Yes           |
| Greg Smith                          | Honeywell            | Yes           |
| Raymond Drost                       | Calumet              | Yes           |
| Brad Boggess                        | Emerson              | Yes           |
| Justin Allemann                     | Parker Hannifin      | Yes           |
| Bob Low                             | Koura                | Yes MNQ       |
| Ed Hessel                           | Lanxess              | Yes           |
| Chris Campo                         | Shrieve              | Yes           |
|                                     |                      |               |
| Marc Scancarello - MTG Low GWP      | Emerson              | No            |
| Rashid Zakeri – MTG Sustainable RAC | Circle Proscio       | No            |

### Virtual Meetings and Conference Log-in Information

**TC 3.2 Meeting (Hybrid) – January 23<sup>rd</sup>, 2024 3:30 pm – 6:00 pm (CST)** Link for Virtual Attendees;

[Link to Web Meeting](#)

Additional details if needed or Join via Phone– Meeting Number Meeting number: 2332 127 6027; Password: wXBNHfv5Z84; Join by phone 18662994153 United States of America Toll Free; +14702385742 US Toll; Access code: 2332 127 6027

**Combined TC 3 Research and Program Virtual Meeting – January 9<sup>th</sup>, 2024 1:00 pm – 3:00 pm (CST)** Link for Attendees:

[Link to Web Meeting](#)

Additional details if needed or Join via Phone– Meeting Number 2346 187 1968; Password VAhrHJ9pU62; Join by phone +14702385742 US Toll; Access code: 2346 187 1968

The schedule of all virtual meetings, technical programs and other meetings can be found at [ASHRAE 2024 Winter Conference Schedule](#)

1.) Call to Order (**Julie Majurin**)

*The meeting was called to order at 3:35 p.m.*

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

*The ASHRAE Code of Conduct was briefly reviewed.*

3.) Confirmation of Quorum (**Julie Majurin**)

*10 of 11 voting members were present. Quorum was met.*

4.) Approval of TC 3.2 2024 Winter Conference Hybrid Meeting Agenda (**Julie Majurin**)

*The agenda was reviewed.*

*Motion: Approve the agenda as written.*

*1<sup>st</sup>: Greg Smith ; 2<sup>nd</sup>: Brad Boggess*

*9/0/0 CNV (for/against/abstain/chair)*

*Discussion: None*

5.) Approval of TC 3.2 2023 Annual Conference Hybrid Meeting Minutes (**Julie Majurin**)

*The minutes from the 2023 annual meeting were reviewed.*

*Motion: Approve the minutes as written.*

*1<sup>st</sup>: Sheli Porter; 2<sup>nd</sup>: Bob Low*

*9/0/0 CNV (for/against/abstain/chair)*

*Discussion: None*

6.) Report of TC Chair's Breakfast Meeting (**Julie Majurin**)

*Global Technical Interactions Committee*

*ASHRAE has developed a new standing committee - GTIC (Global Technical Interactions Committee); the GTIC will be responsible for leveraging the technical resources of ASHRAE to influence international standards and maximize the global impacts of ASHRAE standards and other technical work products. This includes developing, implementing, and managing processes that enable information flow and coordination between chapters, technical committees, project committees, and international technical advisory groups. The GTIC membership consists of individuals from 10 different countries.*

*Decarbonization*

*Updates on ASHRAE decarbonization activities were given.*

- *ASHRAE is planning the publication of 5 more technical guides on decarbonization in 2024.*
- *ASHRAE is proposing development of a Center of Excellence for Building Decarbonization (CEBD) with the purpose of providing strategic direction for ASHRAE building decarbonization activities and to work with the Planning Committee to incorporate appropriate goals into the Society strategic plan. Several Decarbonization Task Groups (DTGs) are being proposed that would fall under the CEBD, such as Embodied Carbon Benchmarking, Refrigerant Leakage, and PCRs (Product Category Rules)/EPDs (Environmental Product Declarations).*

*Programs*  
*2024 Program Statistics*

| Program                          | Proposals Submitted | Proposals Scheduled |
|----------------------------------|---------------------|---------------------|
| Panel Session                    | 18                  | 11                  |
| Forum Sessions                   | 10                  | 4                   |
| Seminar Sessions                 | 133                 | 72                  |
| Workshop Sessions                | 6                   | 2                   |
| Debate Sessions                  | 3                   | 2                   |
| <b>Total</b>                     | <b>170</b>          | <b>91</b>           |
| <b>Total with Paper Sessions</b> |                     | <b>124</b>          |

**Program Submissions & Tips for Successful Acceptance**

- Subject to Commercialism Review
- Selected AFTER Paper Sessions are slotted
- TC's select Session Chairs and Speakers

**Mandatory Requirements**


Refer to the conference theme and track descriptions (*start from here*)  
 Emailed by ASHRAE, conference website, or ask the Conference/Track Chairs  
 Topic (*be open minded*):

- Related to the conference theme or to one or more tracks
- Better if the scope is wider than the theme to attract more interest. It may also stimulate new ideas/tracks for future conferences
- Better if «crossing» 2+ tracks: multidisciplinary

Content (*simplicity, clarity*):

- Better if linear, logic, rational; convoluted text may be difficult to be appreciated/understood by reviewers
- References & bibliography are essential to support the content
- Graphics: high resolution, possibly not too "crowded" with information, texts readable
- Respect the rules and deadlines (submission, revisions)

**Acceptance Tips**



**Contacts for Program Questions**

Raul Simonetti, CEC Chair - [raul.simonetti@carel.com](mailto:raul.simonetti@carel.com)

Maggie Moninski, CEC Vice-Chair, [maggie.moninski@gmail.com](mailto:maggie.moninski@gmail.com)

Suzanne LeViseur, Conference Chair, [Slevisur@haddadeng.com](mailto:Slevisur@haddadeng.com)

**ASHRAE Strategic Plan**

- Current plan covers 2019-2025
- Next strategic plan is being developed and member input is sought; ASHRAE will pull response data on 1/31/2024 and 5/31/2024
- <https://strategicplanfeedback.ashrae.org/>



7.) **Liaison Comments** (may be adjusted to accommodate the Liaisons' schedules)

*Our Section 3 Head Tina Brueckner noted that TC 3.8 (Refrigerant Containment) will be merging with TC 3.1 (Refrigerants and Secondary Coolants). Members requested that TC 3.4 (scheduled just prior to TC 3.2) and TC 3.2 be booked in the same or a nearby room so that members and participants can make it on time to the TC 3.2 meeting; there is significant overlap between members of the two TCs. Tina recommended adding a note to the room reservation requests for both TCs 3.2 and 3.4.*

8.) **Subcommittee Reports**

**Programs (Shelby Kent)**

*TC 3.2 co-sponsored AHR Expo Session 6: Role of Lubricant Operation and Stability for Low GWP Refrigerants: Tuesday, January 23<sup>rd</sup>, 12:00-1:30 pm CST at the McCormick Place South, 4, S402a*

*Potential ideas were discussed for the Indianapolis Summer 2024 and Orlando Winter 2025 meetings, but no motions were made. The Orlando meeting will have a track for Refrigeration and Refrigerants; further discussion to occur at the summer meeting.*

**Handbook (Ivan Rydkin)**

- *Ivan Rydkin has resigned from TC 3.2. The chair requested a volunteer to be the new Handbook subcommittee chair. Andrea Hernandez-Irias from Metalloid volunteered. Volunteers to help update the chapters include Shelby Kent, Rashid Zakeri, Morgan Leehey, Rosine Rohatgi, and a chemist from Koura (to be identified and assigned).*
- *Chapter 6 (Refrigerant System Chemistry) and Chapter 7 (Control of Moisture and Other Contaminants in Refrigerant Systems) are in scope; the updates will need to be made in time for the 2026 publication.*

### **Standards (Sheli Porter)**

#### **Updates:**

- **Guideline 38-2023**, Guideline for Using Metal Pressure Vessels to Test Materials Used in Refrigeration Systems – *standard was published in 2023; no current activity.*
- **ASHRAE 97-2007 (RA 2017)**, Sealed Glass Tube Method to Test the Chemical Stability of Materials for Use within Refrigerant Systems (ANSI Approved) – *updates have been completed; needs to be voted on.*
- **ASHRAE 35-2014 (RA 2024)**, Method of Testing Desiccants for Refrigerant Drying (ANSI Approved) - *updates are in progress.*
- **ASHRAE 63.2-2017**, Method of Testing Liquid-Line Filter Drier Filtration Capability (ANSI Approved) – *there is a request to update the permissible fluids and to make other revisions. A new committee should be formed.*
- **ASHRAE 78-1985 (RA 2017)**, Method of Testing Flow Capacity of Suction Line Filters and Filter-Driers (ANSI Approved) – *no current activity.*
- **ASHRAE 219-2021**, Method of Testing the Ability of Liquid Line Filter Driers or Adsorbents to Remove Organic Acid (ANSI Approved) – *standard was published in 2021; no current activity.*

#### **New Ideas for standards or guidelines:**

*No new ideas.*

### **Research (Casey Scruggs)**

#### **Current Research Activities Updates:**

- **RTAR 1856** – Determine the Effect and Allowable Limits of Moisture and Contaminants in CO<sub>2</sub> Systems- *Work Statement is complete and needs to be submitted to RAC; Casey to follow up with Ivan; it's possible that TC 10.1 (Custom Engineered Refrigeration Systems) will cosponsor; a new champion needs to be identified as Ivan is no longer participating in TC 3.2; possibly a Koura chemistry team leader; Bob Low to check*
- **RTAR 1886** – Kinetic and Mechanistic Studies of the Breakdown of HFO Refrigerants – *In process of being drafted; possibly will have some results from ongoing AHRTI study*

#### **Ideas from Research Subcommittee Meeting:**

- *Polymerization of HFOs*
- *Use of other metals in Standard 97*
- *Proper evacuation levels before refrigerant charges*

### **Webmaster (Dave Vincent)**

*Website is up to date.*

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

*The MTG met on Sunday. Focus of the meeting was on updates to building codes and standards.*

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

*There has been no recent activity.*

11.) Membership (**Julie Majurin**)

*The chair informed the TC that Chris Campo and Ivan Rydkin have resigned from the committee and a few members will either be moving to non-voting status or rolling off in June; therefore, there is room for a couple additional members to join. It was recommended for anyone interested in becoming a corresponding member to go to the ASHRAE website and join as a Provisional Member.*

12.) Old Business (**Julie Majurin**)

*None.*

13.) New Business (**Julie Majurin**)

*None.*

14.) Adjournment