



### ASHRAE TC 3.1—Refrigerants and Secondary Coolants

Tampa, Florida, USA & Virtual

Tampa Marriott Waterside, Meeting Room 9 (3)

2:30 – 4:30 p.m. EDT

Login information is provided below for virtual attendees

Name	Affiliation
<b>Voting Members</b>	
Dennis Dawe (2025)	CBRE
Lydia Dobler (2024)	Calumet
Josh Hughes (2025)	Chemours
Sarah Kim (2025)	Koura
Valerie Lisi – Research SC (2024)	Carrier
Julie Majurin – Chair (2023)	Daikin
Mark McLinden (2025)	NIST
Alice Riemer (non-quorum) (2023)	Danfoss
Rosine Rohatgi (2025)	Spauschus
Casey Scruggs – Standards SC (2024)	Metalloid
Marc Scancarello (2024)	Emerson
Steve Kujak – Webmaster (2025)	Trane
Samuel Yana Motta – Vice Chair (2025)	ORNL
<b>Non-Voting Members</b>	
Michael Petersen – Handbook SC	Trane
Chris Seeton – Programs SC	Koura

#### Liaisons & Other:

Tina Brueckner - Section 3 Head  
 CheeSheng Ow - Research Liaison  
 Steve Hammerling - ASHRAE Staff Liaison  
 Eric Granzow - Handbook Liaison  
 Gerald Kettler - Standards Liaison

#### Meeting Information:

TC 3.1 Meeting – June 26<sup>th</sup>, 2023, 2:30 – 4:30 p.m. EDT

Link for Attendees: <https://events.rdmobile.com/Sessions/Details/1780444>; Scroll down and select 'Enter Meeting'

Join by phone: 1-866-299-4153 United States of America Toll Free; +1-470-238-5742 US Toll

Access code: 2341 240 5369

TC 3.1, TC 3.2, TC 3.4 & TC 3.8 Combined Research and Programs Meeting – June 13, 2023 2:00 pm – 4:00 pm EDT

Link for Attendees: <https://events.rdmobile.com/Sessions/Details/1780445>; Scroll down and select 'Enter Meeting'

Join by phone: 1-866-299-4153 United States of America Toll Free; +14702385742 US Toll

Access code: 2335 145 5079

The schedule of all meetings and technical programs can be found on the online conference schedule. You can also access this information via the ASHRAE website [ASHRAE 2023 Tampa Conference Schedule](#).

## AGENDA

### ASHRAE TC 3.1—Refrigerants and Secondary Coolants

*TC 3.1 is concerned with all properties and functions of refrigerants and secondary coolants, including commercial and experimental materials.*

If you would like to become a member of TC 3.1:

- Go to <http://tc0301.ashraetcs.org/>
- Click on 'Membership', then 'Join TC 3.1'. Follow the prompts and you will be added as a Provisional member.
- Provisional membership lasts for 2 years. After this time period, to move from Provisional member status, please contact the TC chair prior to the Winter meeting, and the chair can move you to Corresponding member status.

#### 1. CALL TO ORDER

##### 1.1 INTRODUCTION OF MEMBERS AND GUESTS

##### 1.2 QUORUM DETERMINATION (13 VOTING MEMBERS)

#### 2. ASHRAE CODE OF ETHICS

*In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interest.*

<https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

#### 3. AGENDA REVIEW

#### 4. MINUTES OF THE LAST MEETING (February 2023 Hybrid – Atlanta)

#### 5. ROSTER REVIEW AND ANNOUNCEMENTS

##### 5.1 INTRODUCTION OF NEW MEMBERS

##### 5.2 CHANGES

Beginning on July 1<sup>st</sup>, the following roster changes will take effect.

- Samuel Yana Motta → Chair
- Ankit Sethi → Vice Chair and Voting Member
- Henna Tangri → Research Chair (non-voting)
- Ivan Rydkin → Voting Member
- Michael Petersen → Voting Member
- Steve Kujak, Julie Majurin, and Alice Riemer will roll off of voting membership (Steve Kujak to remain Webmaster)

#### 6. TC CHAIR'S MEETING REPORT

#### 7. LIAISON COMMENTS (schedule may be adjusted)

#### 8. SUBCOMMITTEE REPORTS

##### 8.1 HANDBOOK (Michael Petersen)

##### 8.1.1 Fundamentals Handbook – next update is for the 2025 publication.

- Chapter 29 (Refrigerants) – Michael Petersen (lead) with Ankit Sethi, Monika McNeil, and Harrison Skye as team members.
- Chapter 30 (Thermophysical Properties of Refrigerants) – Mark McLinden (lead) with Clair Skae supporting.

- Chapter 31 (Physical Properties of Secondary Coolants) – Keegan Yaroch (lead) with Mary Koban and Henna Tangri supporting.

## **8.2 PROGRAMS** (Chris Seeton)

### **8.2.1 Programs/sessions of potential interest at this meeting**

- Seminar 9: Properties of Refrigerants & Lubricants to Comply with the AIM Act, Sunday, June 25, 9:45-10:45 EDT (sponsored by TC 3.4)
- Seminar 25: A2L Refrigerants Standards Review Part 1, Monday, June 26, 9:45-10:45 EDT (sponsored by the MTG.LowGWP)
- Seminar 60: A2L Refrigerants Standards Review Part 2, Wednesday, June 29, 9:45-10:45 EDT (sponsored by the MTG.LowGWP)

### **8.2.2 New Program ideas**

- Feedback from TC 3 Combined Programs Virtual Meeting on 6/13/2023
- New Program ideas from the TC

## **8.3 RESEARCH** (Valerie Lisi)

### **8.3.1 Research Subcommittee Chair's Meeting Report**

### **8.3.2 Current/Ongoing Research Activities**

### **8.3.3 Old Research ideas**

### **8.3.4 New Research ideas**

- Feedback from TC 3 Combined Programs Virtual Meeting on 6/13/2023
- New Research ideas from the TC

## **8.4 STANDARDS** (Casey Scruggs)

### **8.4.1 Current Standards**

- ANSI/ASHRAE Standard 34 (Designation & Safety Classification of Refrigerants) – Sarah Kim
- ASHRAE Guideline 6 (Refrigerant Information Recommended for Product Development and Standards) – Lauren Huffman
- ASHRAE Guideline 39 (Method of Test for Measuring Fractionated Compositions of Refrigerant Blends) – Ankit Sethi

### **8.4.2 New Standard ideas**

## **9. WEBSITE** (Steve Kujak)

<https://tc0301.ashraetcs.org>

## **10. OLD BUSINESS**

- ASHRAE Position Document on 'Refrigerants and their Responsible Use' - Samuel Yana Motta
- Basecamp – TC 3.1 site is in use

<https://3.basecamp.com/3106353/projects/10584516>

## **11. NEW BUSINESS**

## **12. NEXT MEETING**

- Chicago, Illinois, USA – January 22, 2024

## **13. ADJOURNMENT**