



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

### Technical Committee 3.4 – Lubrication

Agenda – Annual Conference 2024 Indianapolis  
(Hybrid) Tuesday June 25<sup>th</sup>, 2024 – 1:30 to 3:30 pm  
(ET)

JW Marriot, 302 (3)

Log in information provided below for virtual attendees

Name		Affiliation
<b>Voting Members</b>		
Casey Scruggs – Chair, Hndbk	2024	Trane Technologies
Rashid Zakeri – Vice Chair/MTG Sustainable RAC	2026	Circle Proscio
Joe Karnaz – MTG Low GWP	2024	Shrieve
Sheli Porter – Standards	2025	Stellar Laboratories
Dave Vincent – Webmaster	2025	BVA
Raymond Drost - Secretary	2024	Calumet
Sara Kampfe	2027	Copeland
Chris Seeton	2026	Koura
Rosine Rohatgi	2026	Spauschus
Morgan Leehey	2026	Trane Technologies
<b>Non-Voting Members</b>		
Scott Wujek – Research, ALI		Apple
Andrea Irias – Programs		Metalloid
Danny Halel – MTG Low GWP		NTHALP Engineering

#### Virtual Meetings and Conference Log-in Information

##### TC 3.4 Meeting (Hybrid) – June 25<sup>th</sup>, 2024, 1:30 pm – 3:30 pm (ET)

Meeting Link: [https://teams.microsoft.com/l/meetup-](https://teams.microsoft.com/l/meetup-join/19%3ameeting_MTU5ZTEzMzItOGJmMS00MDQ3LWFjMmYtNmI0MjFmZWZrjZjd%40thread.v2/0?context=%7b%22Tid%22%3a%22abf9983b-ca77-4f20-9633-ca9c5a847041%22%2c%22Oid%22%3a%22085446f6-2d4e-4e2b-9758-582bd4adb18f%22%7d)

[join/19%3ameeting\\_MTU5ZTEzMzItOGJmMS00MDQ3LWFjMmYtNmI0MjFmZWZrjZjd%40thread.v2/0?context=%7b%22Tid%22%3a%22abf9983b-ca77-4f20-9633-ca9c5a847041%22%2c%22Oid%22%3a%22085446f6-2d4e-4e2b-9758-582bd4adb18f%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_MTU5ZTEzMzItOGJmMS00MDQ3LWFjMmYtNmI0MjFmZWZrjZjd%40thread.v2/0?context=%7b%22Tid%22%3a%22abf9983b-ca77-4f20-9633-ca9c5a847041%22%2c%22Oid%22%3a%22085446f6-2d4e-4e2b-9758-582bd4adb18f%22%7d)

Access Info: Meeting ID: 326 070 058 457 Password: GhpyjJ TC3.4 Join by phone 12068004985

##### TC 3.1/3.2/3.4/3.8 Combined Research & Program Virtual Meetings – June 11<sup>th</sup>, 2024, 1:00 pm – 3:00 pm (CT)

Meeting Link [https://teams.microsoft.com/l/meetup-](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDUyN2ZINTItNDJjZC00ZTVmLTg5NzUtMWewNjdjN2JjYT%40thread.v2/0?context=%7b%22Tid%22%3a%22db3dbd43-4c4b-4544-9f8a-0553f9f5f25e%22%2c%22Oid%22%3a%22eb9d5d7d-b5ff-452d-9c59-3111beb2c988%22%7d)

[join/19%3ameeting\\_NDUyN2ZINTItNDJjZC00ZTVmLTg5NzUtMWewNjdjN2JjYT%40thread.v2/0?context=%7b%22Tid%22%3a%22db3dbd43-4c4b-4544-9f8a-0553f9f5f25e%22%2c%22Oid%22%3a%22eb9d5d7d-b5ff-452d-9c59-3111beb2c988%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDUyN2ZINTItNDJjZC00ZTVmLTg5NzUtMWewNjdjN2JjYT%40thread.v2/0?context=%7b%22Tid%22%3a%22db3dbd43-4c4b-4544-9f8a-0553f9f5f25e%22%2c%22Oid%22%3a%22eb9d5d7d-b5ff-452d-9c59-3111beb2c988%22%7d)

The schedule of all virtual meetings, technical program and registration can be found at  
[2024 ASHRAE Annual Conference | ashrae.org](https://ashrae.org)

1.) Call to Order (**Casey Scruggs**)

- Virtual conference housekeeping
  - In the group chat for those online, please provide your name and contact information for attendance.
- Introduction of members and guests

2.) ASHRAE Code of Conduct - <https://www.ashrae.org/about-ashrae/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 interests.*

3.) Confirmation of Quorum (**Ray Drost**)

4.) Approval of TC 3.4 2024 Winter Meeting Minutes (**Casey Scruggs**) y/n/a/cv

5.) Approval of TC 3.4 2024 Annual Meeting Agenda (**Casey Scruggs**) y/n/a/cv

6.) Report of TC Chair's Breakfast Meeting (**Casey Scruggs**)

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

- RAC – Zheng O'Neill
- TAC – Tina Brueckner
- Handbook – Drake Erbe
- Standards – Julie Majurin

8.) Subcommittee Reports

Programs (**Andrea Irias**)

*TC 3 Combined Programs Meeting on June 11<sup>th</sup> from 1pm to 3pm CST*

**Review of Sponsored, Co-sponsored or Programs of Interest**

- **Sponsored programs**
- **Other Programs of Interest**

Update from Program Subcommittee Meeting.

Timeline for program submission.

Programs Ideas and Discussion of Future Programs:

Orlando Winter 2025

Lubrication basics for next generation refrigerants

### Handbook (Casey Scruggs)

- Updates on Handbook activities and meetings
- Chapter 12 *Lubricants in Refrigerant Systems*-

### Standards (Sheli Porter)

#### **Updates:**

- **GPC 40** “*Refrigeration Oil Description*”
- **SPC 86** “*Methods of Testing the Floc Points of Refrigeration Grade Oils*”
- **SPC 172** “*Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems*”
- **SPC 218** “*Method of Testing for Lubricant and Refrigerant Miscibility Determination*”
- **New Ideas for standards or guidelines**

### Research (Scott Wujek)

TC 3 Combined Programs Meeting on June 11<sup>th</sup> from 1pm to 3pm CST

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

- **RP 1879** – “*Foaming Properties of Low GWP Refrigerant and Oil Mixtures*”
  - o **Contractor to update the progress of the work?**
- **RP 1721** – “*Oil Return and Retention in Unitary Split Gas Lines with HFC and HFO Refrigerants*” – Completed Waiting on ASHRAE
- **RTAR 1891** – “*Tribological Interaction Data with Lubricants and Refrigerants*”
  - o Is the TC still interested in pursuing this work?
  - o Would need a champion to pick up the project.
- 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 3.4 (Dave Vincent)

#### **Website Update**

9.) MTG Lower GWP Refrigerants TC 3.4 (**Joe Karnaz/Danny Halel**)

**Update:** Recent activity

10.) **Update:** Recent activity

11.) Membership (**Casey Scruggs**)

- 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 (**Casey Scruggs**)

13.) New Business (**Casey Scruggs**)

14.) Adjournment