



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

Technical Committee 3.4 – Lubrication

Agenda – Annual Conference 2022 Toronto (Hybrid)

Tuesday June 28th, 2022 – 1:00 to 3:00 pm (ET)

Hilton – Carmichael/Jackson

Log in information provided below for virtual attendees

Name		Affiliation
Voting Members		
Greg Smith – Chair	2022	Honeywell
Casey Scruggs – Vice Chair, Hndbk	2025	Metalloid
Joe Karnaz – Secretary	2024	Shrieve
Ivan Rydkin – Handbook	2024	Daikin
Sheli Porter – Standards	2025	Stellar Laboratories
Dave Vincent – Webmaster	2025	BVA
Steve Kujak	2022	Trane
Rob Yost	2023	National Refrigerants
Julie Majurin	2023	AHRI
Ed Hessel	2023	Lanxess
Raymond Drost	2024	Calumet
Steve Baker	2025	Emerson
Non-Voting Members		
Scott Wujek – Research, ALI		Apple
Chris Campo – Programs		Shrieve
Joe Karnaz – MTG Low GWP		Shrieve
Danny Halel – MTG Low GWP		NTHALP Engineering
Rashid Zakeri – MTG Sustainable RAC		Circle Proscio

Virtual Meetings and Conference Log-in Information

TC 3.4 Meeting (Hybrid) – June 28th, 2022, 1:00 pm – 3:00 pm (ET)

Meeting Link: <https://ashrae.webex.com/ashrae/j.php?MTID=mf8ecb306748fbff0c712c27744c99de>

Access Info: Meeting number: 2340 415 8907 Password: TC3.4 Join by phone 18662994153 United States of America Toll Free +14702385742 US Toll Access code: 2340 415 8907

TC 3.1/3.2/3.4/3.8 Combined Research & Program Virtual Meetings – June 21st, 2022, 2:00 pm – 4:00 pm (ET)

Meeting Link: <https://ashrae.webex.com/ashrae/j.php?MTID=m10ea83acfac1021d1591acfe4f05e5a1>

Access Info: Meeting number: 2336 749 5931 Password: Section3 Join by phone 18662994153 United States of America Toll Free +14702385742 US Toll Access code: 2336 749 5931

The schedule of all virtual meetings, technical program and registration can be found at

<https://www.ashrae.org/conferences/2022-annual-conference-toronto>

1.) Call to Order (**Greg Smith**)

- Virtual conference housekeeping
- Introduction of members and guests

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 3.4 2022 Annual Meeting Agenda (**Greg Smith**)

5.) Approval of TC 3.4 2022 Winter Meeting Minutes (**Greg Smith**)

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

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

8.) Subcommittee Reports

Programs (**Chris Campo**)

TC 3 Combined Programs Meeting on June 21st from 2pm to 3pm EST

Review of Sponsored, Co-sponsored or Programs of Interest

Conference Paper Session 8 "Refrigerants and HX Research" Monday June 27, 2022 at 8:00am, includes the paper "Chemical Stability of Low-Pressure Refrigerants with Lubricants"

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

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 Flocc 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*”
 - o Up for 5-year review this year – see attachments distributed with agenda
- **New Ideas for standards or guidelines**

Research (Scott Wujek)

TC 3 Combined Programs Meeting on June 21st from 2pm to 3pm EST

Current Research Activities Updates:

- **RP 1879** – “*Foaming Properties of Low GWP Refrigerant and Oil Mixtures*”
- **RP 1721** – “*Oil Return and Retention in Unitary Split Gas Lines with HFC and HFO Refrigerants*”
- **RTAR 1891** – “*Tribological Interaction Data with Lubricants and 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 3.4 (Dave Vincent)

Website Update

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

Update: Recent activity

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

Update: Recent activity

11.) Membership (**Greg Smith**)

- 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 (**Greg Smith**)

- Discussion on subcommittee vice-chair positions

13.) New Business (**Greg Smith**)

14.) Adjournment