



**Agenda**  
**Technical Committee 3.3 - Refrigerant Contaminant Control**  
**Austin, TX – Virtual Meeting**  
**Tuesday, June 9, 2020; 2:00 PM - 4:00 PM Eastern Standard Time**

Name (Term*)	Affiliation
<b>Voting Members</b>	
Chris Reeves – <b>Chair (2020)</b>	Sporlan Division of Parker Hannifin
Angel Mendez - <b>Vice Chair (2023)</b>	CPI Fluid Engineering
Ivan Rydkin – <b>Handbook (2020)</b>	Daikin America
Elyse Sorenson- <b>Webmaster (2021)</b>	Ingersoll Rand
Brad Boggess (2020)	Emerson Climate Technologies, Inc.
Joe Karnaz (2021)	Shrieve Chemical
Roberto Urrego (2021)	Lanxess
Alice Riemer (non-quorum)	Danfoss Automatic Controls
Jian Sun-Banks (2021)	Chemours
Valerie Lisi (2022)	Carrier Corporation
John Senediak (2022)	Intertek
Sonny Sundaresan (2022)	Sundaresan Consulting
Rosine Rohatgi (2022)	Spauschus Associates
Casey Scruggs (2023)	Metalloid Corporation
<b>Non-Voting Members</b>	
Tony Barthel - <b>Research</b>	CPI Fluid Engineering
Steve Kujak - <b>Program</b>	Ingersoll Rand
Frank Nagy – <b>Secretary</b>	UOP LLC
Rob Yost – <b>Standards</b>	National Refrigerants

\*Term expires on June 30 of year indicated.

**1. CALL TO ORDER**

- a. Introduction of Members and Guests (Chris Reeves)
- b. ASHRAE Code of Conduct (Chris Reeves)
- c. Roster Review and Quorum Determination (Frank Nagy)
- d. Announcements

**2. AGENDA REVIEW**

**ACTION:** *Approve/revise the agenda for the meeting.*

**3. MINUTES OF LAST MEETING**

<sup>1</sup> TC 3.3 is concerned with sources, generation, and control of water and other contaminants in refrigerating systems.

**ACTION:** *Approve/revise the minutes of the Orlando Winter 2020 meeting.*

#### 4. TC CHAIRS' BREAKFAST REPORT

This meeting provides the Section Three Chairs a forum for distribution of current direction and guidelines for any requirements related to ASHRAE activities including technical and research direction, standards, publications, etc.

#### 5. LIAISON COMMENTS (may be adjusted to accommodate the liaison's schedule)

#### 6. SUBCOMMITTEE REPORTS

##### a. Program – Steve Kujak

**Section 3 Group Program Meeting starts at 8:00 am until 10:00 am on Monday 6/8/20 via virtual meeting zoom link.**

- Program Ideas for TC 3.3 in Chicago
  - Refrigerant composition shifts during leaks – real system analysis and thermodynamic cycle evaluation
  - Filter/Drier requirements for various refrigerant types
  - Oil Separators
  - Contaminant effects on bearings
  - Outcome from AHRI/DOE white paper
- It was reminded to the committee that by Chicago TC 3.3 and TC 3.2 will be one group but can still have multiple program submissions

##### b. Handbook – Ivan Rydkin

Refrigeration Chapter 7 (Control of Moisture and Other Contaminants in Refrigerant Systems), next publication is 2022

##### c. Standards – Rob Yost

Standard Number	Title	Status / Contact
SPC 35-2014	Method of Testing Desiccants for Refrigerant Drying	In Revision / Amber Saylor
SPC 63.1	Method of Testing Liquid Line Filter Driers	Merged into SPC 35
SPC 63.2	Method of Testing Liquid Line Filter Drier Filtration Capacity	2021
SPC 78	Method of Testing Flow Capacity of Suction Line Filters and Filter Driers	2021
SPC 219	Method of Testing Acid Filters	In Creation / John Senediak

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#### d. Research – Tony Barthel

**Section 3 Group Research Meeting starts is from 4:00PM – 6:00 PM on Sunday 2/2/20 at Hilton Orlando, L, Lake Florence**

Number	Title	Status
1790 – WS	Distribution of Water Vapor and Liquid Phases of Low GWP Refrigerants	Update
RTAR 1856	Determine effect and allowable limits of moisture and contaminants in CO2 systems	Update

#### 7. LOW GWP MTG – Marc Scancarello

#### 8. WEBMASTER – Elyse Sorenson

#### 9. MEMBERSHIP – Update on 3.2/3.3 Merger

#### Title

Refrigerant System Chemistry and Contaminant Control

#### Proposed Scope

TC 3.2 is concerned with all chemical reactions and contaminant control inside refrigerant systems. The primary focus includes effects of temperature, pressure and materials on chemical reaction rates. It also includes sources, generation, as well as control of water and other contaminants. Materials of interest include refrigerants, lubricants, additives, manufacturing chemicals and materials of construction. Scope includes identifying and quantifying contaminants that affect properties and performance of system components such as filters and driers. It is also concerned with contaminants during recovering, recycling and reclaiming refrigerants.

<b>Management Team</b>	
<b>Name</b>	<b>Position</b>
Joseph Karnaz	Chair
Elyse Sorenson	Vice Chair
Steven Baker	Secretary
William (Brad) Boggess	Program Subcommittee Chair
Anthony Barthel	Research Subcommittee Chair
Gregory Smith	Handbook Subcommittee Chair
Ivan Rydkin	Handbook Subcommittee Chair
Robert Yost	Standards Subcommittee Chair
David Vincent	Webmaster
Chris Campo	Ali Coordinator
Marc Scancarello	MTG Low GWP Refrigerants
Jessica Jude	MTG Guide for RAC Plant Assessments

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Voting Membership		
Name	Position	Term
Joseph Karnaz	Member	2023
Steven Baker	Member	2021
Casey Scruggs	Member	2023
Gregory Smith	Member	2024
Ivan Rydkin	Member	2024
Robert Yost	Member	2021
David Vincent	Member	2021
Elyse Sorenson	Member	2022
Justin Allemann	Member	2024
Julie Majurin	Member	2023
Jian Sun-Blanks	Member	2022
Danny Halel	Member	2021
Sarah Kim	Member	2021
Ngoc Dung (Rosine) Rohatgi	Member	2022
Valerie Lisi	Member	2022
John Senediak	Member	2022
Roberto Urrego	Member	2021
Knut Petry	Member Non Quorum	2023

Voting Members	18
Rolling off in 2021	6
Rolling off in 2022	5
Rolling off in 2023	4
Rolling off in 2024	3

## 10. OLD BUSINESS

### 11. NEW BUSINESS

**ACTION:** Items to be added as needed during agenda review

### 12. NEXT MEETING

2021 Winter Meeting In Chicago, IL – New 3.2/3.3 Combined TC

### 13. ADJOURNMENT

**ACTION:** Motion for Adjournment

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