

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS,  
INC.**

**1791 Tullie Circle, N.E./Atlanta, GA 30329  
404-636-8400**

**TC/TG/TRG MINUTES COVER SHEET**

**(Minutes of all TC/TG/TRG Meetings are to be distributed to all persons listed below within 60 days following the meeting.)**

TC/TG/TRG NO 3.2 DATE January 21, 2008

TC/TG/TRG TITLE System Chemistry

DATE OF MEETING January 21, 2008 LOCATION New York City, NY

MEMBERS PRESENT	STATUS	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Sonny Sundaresan	VM	Alice Reimer	Int'l Member	Joe Karnaz Bill Simonsick
Ken Lilje	VM	Tom Leck	VM	Eric Newberg Joe Deringer
Mildred Allison	VM	Frank Nagy	VM	Steve Kujak Bob Woods
Joy Karnaz	VM			Alan Cohen Curt Slayton
Jay Field	VM			Kathrin Juch John Senediak
Dave Vincent	VM			Hewitt Gaudin Robert Doerr
Raymond Thomas	VM			Hanne Blan Scott Gustafson
Danny Halel	VM			Rich Cavestri Umar Khokhar
Rob Yost	VM			Jorge Cabrera Sunil Naniundaram
				Don Schuster Dale Carr
				Raymond Thomas Cecily Grzywacz

**DISTRIBUTION**

<i>All Members of TC/TG/TRG plus the following:</i>	
TAC Section Head:	Wayne Reedy
TAC Chair:	Eckhard Groll
TAC Vice-Chair:	Patricia Graef
All Committee Liaisons As Shown On TC/TG/TRG Rosters: Don Fenton – RAC Cecily Grzywacz – Handbook	Sam Cummings – Standards Kimball Ferguson – Special Pubs C Brian Wandling – Program Benjamin Crowley – CTTC
Manager Of Standards Manager Of Research & Technical Services	Claire Ramspeck Mike Vaughn
Admin Asst – Technical Services	Tara Thomas

Note: "These draft minutes have not been approved and are not the official, approved record until approved by this committee."

## Call to Order

Ken Lilje, Chair, called the meeting to order at 2:15 pm on Monday, January 21, 2008. The meeting was held in the New York Hilton Hotel. After the introduction of members and guests, a quorum was confirmed with 9 members present (including chair) with 2 members absent.

**MOTION #1** A motion was made by Jay Field and seconded by Dave Vincent to approve the minutes from June 2007 meeting in Long Beach as written.

The motion passed 7-0-0

## **Report on TC 3.0 Chair Breakfast Meeting**

- Handbook due in 1/5 yr. ASHRAE has new “tool” where drafts can be stored online and modified by multiple people.
- Sam Cummings, Standards. ASHRAE has officially agreed to allow TC 3.2 to remove SPC 141P from agenda pending completion of an equivalent ISO Standard.
- RAC Liaison. Requests that TCs submit RTARS/Work Statements through him so he can fill the “advocate” roll.
- Research. Focus research ideas to be consistent with Strategic Plan. New (2010-2015) Strategic Plan is now being developed. Thoughts on future plan needs can be passed on to the Research Advisory Panel.
- E-mail aliases (ASHRAE generated). These often do not work. Discontinue use.
- Section head (Wayne Reedy) wants statement of Program plans for upcoming meetings.
- TC Websites. ASHRAE wants all TC websites on the ASHRAE server and wants them current.

## **Sub-Committee Reports**

### Program – Ken Lilje

New York City, NY Winter 2008

None

Future Proposed Programs

1. History of System Chemistry, Part #2. Joe Karnaz, Chair. Not submitted for NYC. Plan to submit for Salt Lake City (no vote, approved in Long Beach)
2. Issues with CO<sub>2</sub> Refrigeration. Danny Halel, Chair. Proposed for Chicago. Vote 7-0-0 (chair not voting).
3. Issues with Total Acid Number. Sonny Sundaresan, Chair. Proposed for Chicago. Vote 7-0-0 (chair not voting).

### Handbook – Sonny Sundaresan

Sonny Sundaresan is the Handbook Chair and is working on the rewrite.

### Standards – Rob Yost

- SPC 141P – “Method of Testing Fluorocarbon Refrigerants for Contaminants”
  - We are waiting for official word from ASHRAE that we drop it from the Agenda of TC 3.2.
- SPC 175P – “Metal Pressure Vessel Method to Test Materials Used with Refrigeration Systems”
  - Joe Karnaz – Chair. Committee members are Alan Cohen, Ken Lilje, Rosine Rohatgi and Chris Seeton. The committee meets at 4:15 pm following the TC meeting and is working on a draft of the procedure.

## **Research – Liz Dixon (Ken Lilje substituting)**

Members include: Jay Field, Ken Lilje and Bob Doerr.

- Research Subcommittee met on Sunday afternoon to discuss current research projects and RTAR's and future research needs, this meeting was in conjunction with TC's 3.2, 3.3, and 3.4
- RP 1249 – *Determine the Mechanism for Copper Plating and Methods for its Elimination from HVAC Systems.* The contract was awarded to the University of Dayton. Project monitors: Bob Doerr, Ken Lilje and Jay Field provided an update. Experimental work is basically complete, a preliminary report has been submitted. The project monitoring subcommittee will continue their review. The Chair will send the final report to all voting members of the committee at which time a letter ballot will also be sent.
- RTAR 1410 – *Effects of System Materials Towards the Breakdown of POE Lubricants and HFC Refrigerants Part 2* – This RTAR was accepted! Work statements are needed. RTAR 1410's committee includes: Bob Doerr, Jay Field, Joe Karnaz, and Steve Kujak - Chair. The committee will continue to prepare the work statement. Deadline for the WS to Research Committee is May 15<sup>th</sup>.
- RTAR 1409 – *Stability of Candidate Lubricants for CO<sub>2</sub> Refrigeration Systems* – This RTAR was accepted! Work statements are needed. RTAR 1409's committee includes: Scott Gustafson, Chris Seeton, Dale Carr, Liz Dixon and Sonny Sundaresan. The committee will continue to prepare the work statement, Deadline for the WS to Research Committee is May 15<sup>th</sup>.
- *Effect of lubricant on the distribution of moisture between the vapor and liquid phases of refrigerants (Phase 1).* Co-sponsored with TC 3.3.
- Future Direction
  - Think about work on system materials needed for CO<sub>2</sub> and CO<sub>2</sub> lubricants.
  - Longer-term; lets consider how to evaluate new refrigerants.

## **Webmaster – Dave Vincent**

- The website is up to date and will be on the ASHRAE server in the near future.

## **Membership – Ken Lilje**

- Ken reviewed the new roster to take effect on July 1, 2008

## **Old Business**

No old business was brought before the committee.

## **New Business**

- No new business was brought before the committee.

## **Adjournment**

- A motion was made by Sonny Sundaresan and 2<sup>nd</sup> by David Vincent to adjourn the meeting at 3:41pm.

Respectfully submitted,

Danny Halel  
Secretary TC 3.2