

**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 April 7, 2005

TC/TG/TRG TITLE System Chemistry

DATE OF MEETING February 7, 2005 LOCATION Wyndham Orlando

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Joe Karnaz	2004			Robert Doerr
Danny Halel	2002			Raymond Thomas
Robert Yost	2002			Dave Vincent
Jay Field	2003			Liz Dixon
Cary Haramoto	2004			Alan Cohen
Scott Gustafson	2003			Jim Bouril
Frank Nagy	2003			Rich Cavestri
Sonny Sundaresan	2004			Michael Lacey
Alice Riemer	2004			
Raymond Thomas	2003			
Ken Lilje	2004			"Attendance List Attached"

**DISTRIBUTION**

*All Members of TC/TG/TRG plus the following:*

TAC Section Head:	<b><u>David Geary</u></b>
	<b><u>William Bahnfleth</u></b>

## **Minutes – TC 3.2 Refrigerant System Chemistry**

Joe Karnaz, Chairman, called the meeting to order at 2:15 p.m. on Monday February 7, 2005. The meeting was held in the Ireland B Meeting Room of the Wyndham Hotels and Resorts located in Orlando, FL. After the introduction of members and guests, a quorum was confirmed with 11 members present and 0 absent, 0 additional member arrived after the formal introductions.

A motion was made by Yost and seconded by Field to approve the minutes as written from the Summer ASHRAE meeting held in Nashville, TN.  
MOTION PASSED 11-0-0 (Chairman voting).

The agenda for the present meeting was approved with no changes.

### **Introduction of Members and Guests**

All attendees introduced themselves.

### **Chairman's Breakfast**

The Chair's for Section 3 got together the following were discussed

- ? Chapter Technology Transfer Committee
  - Promoting Research and Polling Membership regarding chapters.
  - This committee is a combination of previous committees Chapter Programs, TEGA and Refrigeration
  
- ? Research
  - Research workshops (not the same old thing) – Trying to provide input to the TC's so they can direct their research to society needs
  - Website contains the Research Manual
  - Going to a 3 per year review of research projects (RTAR's) beginning in January 2006
  
- ? Website
  - Need to make sure the TC's website is on the ASHRAE website
  - Having one on one training sessions for Webmaster – They need to sign-up for Denver; only 20 – 25 time slots available
  
- ? Handbook
  - Should be submitting approved chapter revisions by the end of the June meeting
  - ASHRAE is redefining the chapters by starting with one chapter and having a 20 volunteer team meeting at ASHRAE Headquarters for 2 to 3 days
  
- ? Membership

## **Sub-Committee Reports**

### **Program – Ray Thomas**

#### **Orlando – Winter 2005**

Seminar Issues with Alternative Refrigeration Systems – Ken Lilje This Seminar though approved did not make the program – lack of authors.

Poster Session 23, RP-1211 Literature Research

Forum 19 Research Needs and New Ideas

Forum 17 Secondary Benefits of Oil and Oil Free System

#### **Denver – Summer 2005**

A Symposia "System Chemistry and Contaminants Research". Chair - Ken Lilje.

There are issues with presenting in a Symposia data that has already been presented. We will continue to push this Symposia however, it probably move to Chicago.

Speakers include Cavestri – Gbur – Rohatgi and possibly Kauffmann.

A Seminar was suggested by Sonny Sundaresan "Issues with System Chemistry Requirements in New and Retrofit Applications"

Sonny Sundaresan – Gasket and O-ring replacement

Danny Halel – Requirements for Supermarket retrofit. – Checklist format

Ray Thomas – Flushing of systems.

A motion was made by Lilje and seconded by Thomas to sponsor a seminar "Issues with System Chemistry Requirements in New and Retrofits Applications" Chaired by Sonny Sundaresan.

Motion passed – 11/0/0

#### **Chicago – Winter 2006**

Papers due April 1 2005 and completed reviewed documents August 5, 2005.

A Motion was made by Halel and seconded by Thomas to sponsor a seminar entitled "The History of System Chemistry" - Chair - Danny Halel

Motion Passed – 11/0/0

Speakers will be sought by Danny Halel and Ray Thomas

### **Handbook - Bob Doerr**

Bob reported that he has a document that is near ready for submittal. At this point, there are no substantive changes, except to add some research data from recent research results. The final draft will be sent prior to the next meeting for vote in Denver.

Members of the Subcommittee include; Raymond Thomas, Robert Doerr, Chris Seeton, and Ken Lilje.

### **Standards – Rob Yost**

### **Research – Elizabeth Dixon**

*The sub-committee consists of Glen Steinkoenig, Jay File, Ken Lilje and Bob Doerr  
Glen wishes to thank his SC members for their hard work and dedication.*

*1249 WS – Determine the Mechanism for Copper Plating and Methods for its Elimination from HVAC Systems”.*

The work statement was approved pending several modifications, these have been submitted to ASHRAE for submittal for bidding. The sub-committee consists of Ken Lilje, Alice Reimer, Jay Field, Bob Doerr and Glenn Steinkoenig.

*RTAR – Effects of System Materials towards the breakdown of POE lubricants and HFC refrigerants – Part 2. Submitted to the Chair to present to the TC.*

*RTAR – Physical Properties Measurements of CO<sub>2</sub>/Lubricant Mixtures written by Mike Lacey  
Should be handled by TC 3.4. We will look at the TC 3.4 meeting tomorrow*

*RTAR - Stability of Candidate Lubricants for CO<sub>2</sub> Refrigeration Systems written by Mike Lacey.  
These need to be reviewed and considered by the TC. Mike will resend to the Chair.*

### **Membership – Joe Karnaz**

The roster for voting and corresponding members was read for the upcoming year. Anyone interested in becoming a corresponding member please contact Joe Karnaz.

### **Website – Dave Vincent**

ASHRAE Has asked that all TC's have their own website and that it be linked to the ASHRAE website. Dave advised that the Website will be current at the end of February.

### **Old Business – Joe Karnaz**

No old business was brought before the committee.

### **New Business – Joe Karnaz**

No new business was brought before the committee.

### **Adjournment**

The meeting was adjourned at 3:28 pm.

Respectfully submitted

Danny Halel  
ASHRAE TC 3.2 Secretary

TC 3.2 Attendance List – Orlando 2005	
Name	Status
Joe Karnaz	V
Danny Halel	V
Robert Yost	V
Jay Field	V
Cary Haramoto	V
Scott Gustafson	V
Frank Nagy	V
Sonny Sundaresan	V
Alice Riemer	V
Ray Thomas	V
Ken Lilje	V
Alan Cohen	CM
Jim Bouril	CM
Rich Cavestri	CM
Dave Vincent	CM
Robert Doerr	CM
Michael Lacey	CM
Liz Dixon	G
Thomas Leck	G
Mildred Allison	G
Jorge Cabrera	G
John Lawler	G
Sunil Nanjundaram	G
Xiaomei Yu	G
Bob Woods	G
Hideki Suto	G
John Senedial	G
Curt Slayton	G
Liwen Wei	G
Rosine Rohatgi	G
Eric Schweim	G
Steve Spletzer	G
Dave Bellas	G
Ed Kriege	G
Hewitt Gaudin	G
Nandini Mouli	G