

**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 June 27, 2011

TC/TG/TRG TITLE System Chemistry

DATE OF MEETING June 27, 2011 LOCATION Montreal, Quebec CN

MEMBERS PRESENT	STATUS	MEMBERS ABSENT	STATUS	MEMBERS ABSENT
Thomas Leck	Chair/VM	Robert Woods	VM	Nandini Mouli CM
Allen Cohen	VM	Kirsten Ahrenstorf	IM	Fred Polley CM
Danny Halel	Sec/VM	Raymond Thomas	VC/VM	William Walter CM
Rob Yost	SSC/VM	Yanwei Cen	CM	Thomas Watson CM
Stephen Kujak	VM	Richard Cavestri	CM	David Wilson CM
Liz Dixon	RSC/IM	Jorge Cabrera	CM	Xiaomei Yu CM
Sonny Sundaresan	HBC/VM	Charlie Butler	CM	Stephen DeNoia CM
Dave Vincent	Webmaster	James Bouril	CM	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Stephen Speltzer	CM	Chris Bertelo	CM	Ted Li
Scott Gustafson	ALI/CM	Karim Amrane	CM	John Senediall
Ken Lilje	PSC/CM	Jay Field	CM	Chris Reeves
Don Schuster	CM	Clinton Finstad	CM	Ray Cohen (Research Liaison)
Dale Carr	CM	Sunil Nanjundaran	CM	Warren Clough
Joe Karnaz	CM	Andrew Gbur	CM	Brett Van Horn
Julie Majurin	CM	John Manselas	CM	Bianca Hydutsky
		Amy Rice	CM	Ed Hessell
		Donna Bossmann	CM	Brad Boggess
MEMBERS ABSENT		David Bellas	CM	Corey Anderson
Marc Scancarello	PCM	Robert Doerr	CM	Ramon Pons
Eric Newberg	CM	Barry Milward	CM	Knut Petry
Chris Seeton	CM	Tony Min	CM	Richard Kelley
Joe Nigro	CM	Katrin Juch	CM	

**DISTRIBUTION**

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

TAC Section Head: Bill Murphy	
TAC Chair: Charles Wilkin	
All Committee Liaisons As Shown On TC/TG/TRG Rosters: Ray Cohen Research (In attendance)	Douglas Abramson Standards John Clark Special Pubs
Manager Of Standards Manager Of Research & Technical Services	Stephanie Reiniche Mike Vaughn
Note: These draft minutes have not been approved and are not the official, approved record until approved by this committee.	

## **Call to Order**

Tom Leck, Chair, called the meeting to order at 2:20pm on Monday, June 27, 2010. The meeting was held in the Mont Royal of the Hilton Bonaventure in Montreal, Quebec, CN. After the introduction of members and guests, a quorum was confirmed with 8 members present (including chair) 1 International Members with 1 member absent.

**MOTION #1** A motion was made by Ken Lilje and seconded by Rob Yost to approve the Agenda as written and distributed.

**MOTION PASSED 8-0-0 CV**

**MOTION #2** A motion was made by Sonny Sundaresan and seconded by Rob Yost to approve the Minutes from Las Vegas as corrected.

**MOTION PASSED 8-0-0 CV**

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

The TC/TG/TRG Manual of Procedures (MOP) has been revised to include a new committee type, Multi-disciplinary

coordinate and focus the activities of the affiliated TC and non-TC groups that make up the MTG on the task for which the MTG was created without duplicating the functions of a TC or TG so that the task can be completed as efficiently as possible. I see these having a, depending on the subject a specific lifespan, however, the Chair, Vice Chair, Members and Alternates do not have term limits.

MTG.EEC Energy Efficient Classification of General Ventilation Air-Cleaning Devices  
MTG.ET Energy Targets

CEC was in attendance and the Section 3 Chairs continued to explain their disgust in the lack of approved programs in the past years. The representative explained that CEC has heard the cry and has responded. We have made 4 of the 10 Tracks in the Chicago meeting and 4 of the 7 Tracks in San Antonio dedicated to HVAC&R.

The TC 3.2 website is up-to-date and is functioning well.

There was a reminder to utilize the ASHRAE Google Groups and Sites

If there is anyone who has a suggestion to nominate a person for the Hightower Award they are due September 1, 2011.

Thank you Letters to Employers ASHRAE President Lynn Bellenger will send letters of appreciation to employers

Upcoming meetings  
Chicago January 21-25,2012  
San Antonio June 23-28, 2012

### **Sub-Committee Reports**

#### **Program – Ken Lilje**

Bill Murphy Section Head advised that he appreciated the work and comments made by Section 3. And he advised question concern comments to Bill Murphy.

- ✚ Seminar and Forum Proposal for Chicago are due August 12, 2011.
- ✚ Conference Paper Abstracts for San Antonio are due Sept. 26, 2011.
- ✚ Seminar and Forum Proposal for San Antonio are due February 13, 2012

Montreal

- Seminar 51 - Wednesday 8 to 9:30 New and improved lubricants to accommodate low GWP refrigerants

#### Potential Programs

- Fundamentals of Carbon Dioxide Refrigeration Systems, Chair Ken Lilje  
We have one speaker Ken will continue to look for another.
- Others?

#### **Handbook – Sonny Sundaesan**

- The Handbook Liaison Ramon Pons was at our meeting. He advised that the next rewrite for the 2014 Edition is due May 25, 2013 Our Chapter number will change to 6.
- An e-mail was sent to the Chair and asked to recruit a new Handbook Chair.

#### **Standards –Rob Yost**

- SPC 175 *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, they meet at 4:15 pm on Monday. A few minor issues need to be discussed.
- SPC 97-2007 *Sealed Glass Tube Method to Test for Chemical Stability of Materials for Use Within Refrigerant Systems* Chris Seeton is Chair. References are out of date. A call for members was put out, we need members and the first meeting will be in Chicago.

#### **Research – Liz Dixon**

Research Liaison Ray Cohen

Ray Cohen Research Liaison will be retiring and the new Liaison will be Don Bivens after this meeting. Danny Halel asked for a round of applause by the committee for Ray for his work keeping us focused and up to date. The money is opening up for Research and there is available money to spend.

Sub committee members include: Jay Field, Ken Lilje and Bob Doerr.

TC 3.2, 3.3 and 3.4 meet as a group on Sunday afternoon at 4pm. All interested parties are welcome.

- WS 1410 *Effects of System Materials Towards the Breakdown of POE Lubricants and HFC Refrigerants Part 2*  
Accepted for bid by ASHRAE RAC October 2009. Committee includes: Bob Doerr, Jay Field, Joe Karnaz, and Steve Kujak - Chair. The Work Statement went out for bid, bids have been received and has asked that we go into Executive Session after this meeting to present and vote.
- RP 1409 *Stability of Candidate Lubricants for CO<sub>2</sub> Refrigeration Systems* – Awarded to Spauschus Associates. Work is complete. The report has been submitted and the recommendation by the subcommittee is to accept the report.

MOTION #3 accept and approve Spauschus Associates Document 1409. Motion made by Liz Dixon and seconded by Steve Kujak. 6-0-1 CNV abstain reason one of the committee members did not get a chance to review the document.

Research Sub-committee met and generated some new possible research subjects including:

Cooperating with TC 3.4 on General System Chemistry and MCLR.

#### **Webmaster – Dave Vincent**

- The website is up to date and accessible on the ASHRAE website.

## **Membership – Ken Lilje**

The roster was reviewed and the Chair advised that if anyone in the room wanted to join this Committee please see the Chair. .

The Chair asked for additional members if anyone was interested.

Voting Members 9 International Members - 2 Corresponding Members 37

Leadership of the committee as of July 1, 2011:

Raymond Thomas	Chair	Danny Halel	- Secretary
Ken Lilje	Program	Rob Yost	- Standards
Elizabeth Dixon	Standards	David Vincent	Webmaster
Scott Gustafson	ALI	VACANT	- HANDBOOK

## **Old Business**

- No old business was brought forth to the committee.

## **New Business**

Our next Meeting will be on Monday, January 23, 2012 in Chicago, IL.

## **Adjournment**

The meeting was adjourned at 3:55. By Chair Dr. Thomas Leck.