

**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 25, 2012

TC/TG/TRG TITLE System Chemistry

DATE OF MEETING June 25, 2012 LOCATION San Antonio, TX

MEMBERS PRESENT	STATUS	MEMBERS ABSENT	STATUS	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Ken Lilje	PSC/VM	Raymond Thomas	Chair/VM	Don Bivens
Dave Vincent	Web/VM	Kirsten Ahrenstorf	VC/NQM	David Blaine
Danny Halel	Sec/NVM	Umar Khokhar	VM	Michael Foster
Rob Yost	SSC/VM	Liz Dixon	RSC/CM	Cory Anderson
Warren Clough	VM	Robert Woods	VM	Knut Petry
Rosine Rohatgi	HBC/VM	Tony Min	CM	Roberto Urrego
Sonny Sundaresan	VM	Charlie Butler	CM	Amanda Hickman
Julie Majurin	VM	Jorge Cabrera	CM	Pat Gilbane
Alan Cohen	VM	Fred Polley	CM	Jeng-shiang Tsaih
Scott Gustafson	ALI/CM	Richard Cavestri	CM	Eugene Chen
Stephen Spletzer	CM	Eric Newberg	CM	Bianca Hydutsky
Jay Field	CM	Clinton Finstad	CM	Richard Kelley
Dale Carr	CM	William Walter	CM	David Blain
Joe Karnaz	CM	Andrew Gbur	CM	Brett Van Horn
Marc Scancarello	PCM	Curtis Slayton	CM	Ramon Pons
Thomas Leck	CM	Alice Reimer	CM	John Senediak
Glenn Steinkoenig	CM	Chris Bertelo	CM	Brad Boggess
Joe Nigro	CM	Katrin Juch	CM	Hewitt Gaudin
Yanwei Cen	CM	Barry Milward	CM	
Christopher Reeves	CM	Stephen Kujak	CM	
Frank Nagy	CM	Ersin Gercek	CM	
Ed Hessel	CM	Karim Amrane	CM	
Chris Seeton	CM			

**DISTRIBUTION**

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

TAC Section Head: Bill Murphy	
TAC Chair: Charles Culp	
All Committee Liaisons As Shown On TC/TG/TRG Rosters: Research Liaison – Don Bivens ALI – John Nix	Standards - Douglas Abramson Special Pubs - William Fleming
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**

Acting Chair Kenneth Lilje, called the meeting to order at 2:16 pm on Monday, June 25, 2012. The meeting was held in the CC-001A Room of the Conference Center in San Antonio, TX. After the introduction of members and guests, a quorum was confirmed with 8 members present (including chair) 0 International Members with 3 members absent. Remove Umar Khokhar as a Voting Member he is no longer in the industry.

The Agenda was approved as written.

**MOTION #1** A motion was made by Sonny Sundaresan and seconded by Robert Yost to approve the Minutes from Chicago as corrected. (One editorial changes). Errors under the Handbook.

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

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

- Over the past several years ASHRAE has been using a new means to communicate expertise on a particular subject, these are called Multidisciplinary Task Groups (MTG's). Two new ones have been formed on
  - Alternative Lower Global Warming Potential Refrigerants
  - Energy Efficient Air Handling Systems for Non-Residential Building
- TC Volunteers willing to support content development and Quality Control for Society Technical Program at Society Meetings
  - Provide your Section Head after each Society meeting a list of qualified volunteers from your TC that are potential Technical Session chairs and reviewers of session papers that are related to TC's scope for use by the Conferences and Exhibitions Committee (CEC) in developing technical content for future technical programs.
- CEC implemented changes
  - Speaker registration fee
    - Beginning in the Dallas Meeting and moving forward for future conferences, a speaker registration fee is being implemented as a part of an overall Society evaluation of registration fees for the purpose of lowering registration fees for other attendees. For the meeting in Dallas a fee of \$95 Member/Non-member Speaker registration fee.
- Thank you Letters to Employers
  - ASHRAE President – Ronald E. Jarnagin – has offered to send letters to the employers of TC volunteers this year thanking them for supporting their employee's service on an ASHRAE TC during the Society year 2011-2012. If requested the letter will be sent in late July.
- Option for TC Subcommittee Meetings via Conference Calls and Web Meetings
  - More and more TCs are taking advantage of a Society service that allows TCs to hold Subcommittee meetings by phone and/or web. Many Tc's are finding this to be a more efficient way for them to conduct business. If you have a need for this service, please contact MRTS, Mike Vaughn at [mvaughn@ashrae.org](mailto:mvaughn@ashrae.org) or [MORTS@ashare.net](mailto:MORTS@ashare.net)

## **Upcoming meetings**

- Dallas January 26-30, 2013
- Denver June, 2013

## Sub-Committee Reports

### Program – Ken Lilje

No Submissions for this meeting.  
67 Seminars were approved out of 120 submittals.

Fundamentals of CO2 Refrigeration Systems

- ✚ Conference Paper Abstracts for Denver were due March 19, 2012.
- ✚ Seminar and Forum Proposals for Dallas are due August 13, 2012.

The Board of Directors in Montreal voted that in the 2013 meeting in Dallas – the free registration for Chair and presenters will go away; the presenters will be charged 25% of the standard charge. This will also apply to Seminar, Forum and Symposia Chairs.

**MOTION #2** A Motion was made by Warren Clough and seconded by Dave to sponsor an Open Forum “Safety Issues with Counterfeit Refrigerants” moderated by Rob Yost for Dallas.  
MOTION PASSED 8-0-0

### Handbook – Rosine Rohatgi

Committee Members include – Rosine Rohatgi – Chair, Warren Clough, Joe Longo, Chris Seeton, Sonny Sundaresan, Ed Hessell, and Jay Field.

Jay Field mentioned that there is a new Technical Committee 2.5 on Environmental Chemistry. The Handbook Committee needs to move this information to the proper TC.

- The Handbook Liaison Ramon Pons was at our meeting. He advised that the next rewrite for the 2014 Edition is due May 25, 2013.

**MOTION #3** A motion was made by Rosine Rohatgi and seconded by Rob Yost to “remove the sections on environmental effects and flammability effects out of the Chapter. The Handbook Committee will ensure that these sections will be covered in other Chapters prior to removal with references to these Chapters.”

MOTION PASSED 8-0-1 Abstention – Not comfortable with removing these sections – still deciding.

### 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. The committee is very close to a final draft. Mr. Karnaz believes that the document will be ready for Dallas.
- 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. There is a meeting to be held in San Antonio to discuss TPS.

### Research – Liz Dixon/Ken Lilje

Liz Dixon could not attend the meeting – Joe Karnaz spoke in her stead.

Research Liaison – Don Bivens

Don Bivens is our Research Liaison – we need the follow up paperwork to pay Spauchus Associates for their work on

- 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. Project Monitoring Sub-Committee includes: Jay Field, Joe Karnaz, Mark Scancarello and Steve Kujak - Chair. Spauchus Associates was awarded the contract and the project is on schedule.

- We are Co-Sponsoring RP-1665 “Reactivity of R-40” There is an approved Work Statement going out for bid.

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

- Performing compatibility evaluations at moderate or intermediate temperatures below ASHRAE 97 parameters.
- Refrigerant options with Low GWP refrigerants (HFO’s HC’s and HFC’s) what data is missing.
- Sub Committee to work with AHRI and work on joint research ideas and funding. The SC members are Jay Field, Joe Karnaz, Alice Reimer, Warren Clough and Mark Scancarello.
- Determining appropriate levels of impurities in Hydrocarbon refrigerants. AHRI 700 does not now cover Hydrocarbons.

**MOTION #4** A Motion was made by Rob Yost and seconded by Sonny Sundaresan to “Sponsor research in Hydrocarbons refrigerants impurities and there effects on the refrigeration systems. Rob Yost, Steve Kujak, Mark Scancarello, Glen Steinkoenig and Warren Klough have volunteered to work on the RTAR.

Motion Passed 8-0-0

### **Webmaster – Dave Vincent**

Dave Vincent reported that the website is not up to date only due to not having the minutes from Chicago or the Agenda for San Antonio.

### **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 or Membership Chair.

The Chair asked for additional members if anyone was interested.

Voting Members – 11 International Members - 1 Corresponding Members – 40

Leadership of the committee as of July 1, 2012:

Raymond Thomas – Chair	Kirsten Ahrenstorf – Vice Chair
Danny Halel – Secretary	Ken Lilje – Program
Rob Yost – Standards	Elizabeth Dixon – Research
David Vincent – Webmaster	Scott Gustafson – ALI
Rosine Rohatgi - Handbook	

### **Old Business**

- No old business was brought forth to the committee.

### **New Business**

MTG Proposal – Multi-disciplinary Task Group – Alternative Lower GWP Refrigerants - Sonny Sundaresan is our voting member, the group met in San Antonio. There is going to be another CEC Track on Low GWP refrigerants.

### **Adjournment**

The meeting was adjourned at 3:43pm by Acting Chair Ken Lilje.