

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

**1791 Tullie Circle, N.E./Atlanta, GA 30329
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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 26, 2009

TC/TG/TRG TITLE System Chemistry

DATE OF MEETING January 26, 2008 LOCATION Chicago, IL

MEMBERS PRESENT	STATUS	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Tom Leck	Chair/VM	Dave Vincent	WEB	Alan Cohen Frank Nagy
Raymond Thomas	VC/VM			Alice Reimer Ray Cohen
Danny Halel	Sec/VM			Robert Doerr Bob Woods
Rob Yost	SSC/VM			Donna Bossmann Don Schuster
Liz Dixon	RSC/IM			John Massolas Stephen Spletzer
Stephen Kujak	VM			Kirsten Ahrenstorf Kathrin Juch
Sonny Sundaresan	HBC/VM			Suhil Nanjundaram Amy Rice
Joe Karnaz	VM			Stephen Denoia David Bellas
				Jorge Cabrera Chris Seeton
Scott Gustafson	ALI/NVM			
Ken Lilje	PSC/NVM			

DISTRIBUTION

<i>All Members of TC/TG/TRG plus the following:</i>	
TAC Section Head:	Brian Silvetti
TAC Chair: TAC Vice-Chair:	Brian Becker
All Committee Liaisons As Shown On TC/TG/TRG Rosters: Don Fenton – RAC Cecily Grzywacz– Handbook Ray Cohen – Research Tim McGinn - ALI	Sam Cummings – Standards Julia Keen – Special Pubs C Brian Wandling – Program
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

Tom Leck, Chair, called the meeting to order at 2:20pm on Monday, January 26, 2009. The meeting was held in the Monroe Room of the Palmer House Hotel in Chicago, IL. After the introduction of members and guests, a quorum was confirmed with 8 members present (including chair) with 1 member absent and 1 International Members.

MOTION #1 A motion was made by Stephen Kujak and seconded by Joe Karnaz to approve the minutes from June 2008 meeting in St. Lake City, UT as written.

The motion passed 8-0-0 CV

Report on TC 3.0 Chair Breakfast Meeting

- The Hightower Award was given this year. It has not been given out in the past several years, therefore, ASHRAE has included past years service as a qualification for the Award.
- The Roster Update process has been evaluated and changed again by ASHRAE staff. If anyone wishes to join the Committee please contact the Secretary.
- A new Committee position has been generated it is called the Provisional Corresponding Member. These positions can be applied for on the ASHRAE webpage.
- Clima 2010 has been scheduled in Turkey in May 2010. ASHRAE is asking for papers from members. More information can be gleaned from the ASHRAE website.

Sub-Committee Reports

Program – Ken Lilje

Chicago

None sponsored by TC 3.2 however seminars of interest are:

SEMINAR 46 Tuesday CO2 related REFRIGERATION COMMITTEE

FORUM 16 Wednesday Contaminant Control in R-22 Retrofits

Poster session

- None

Future Symposia/Seminar/Forum

History of System Chemistry has been a subject that has been talked about Joe Karnaz is working on a polan for Louisville.

- Issues with CO2 Refrigeration – Danny Halel in Chicago. Danny advised that he did not have any speakers. He advised that he would be happy to Chair the seminar if he had and speakers in Louisville or Orlando. Danny has volunteered to offer a CO2 Fundamentals paper and Alan Cohen on Dessicants with Ken Lilje Chair.
- Issues with Total Acid Number – Sonny Sundaresan in Orlando. Sonny will continue to look for speakers to fill the slate.

Handbook – Sonny Sundaresan

- Bob Doerr and Raymond Thomas have volunteered to help. He needs additional volunteers.
- Sonny is comfortable working on the Handbook Portal on the ASHRAE website.
- Sonny is planning to have a draft ready in February 2009.
- The deadline for the Handbook Chapter is June 2009.
- ASHRAE also has the Handbooks in CD form. This media allows us to provide videos, pictures extra large graphs, prints etc. If you have extra data that could be placed in the CD Plus, please submit your information to Sonny Sundaresan.

Standards – Rob Yost

- 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 in the Sandberg 3 Room following the TC meeting and is working on the final draft of the document.
- SPC 172 is looking for members and a Chair. The Cognizant TC 3.4 is looking for assistance.

Research – Liz Dixon

Research Liaison – Ray Cohen

Reported that there are some BOD members who believe that there will be additional research dollars available if the right project comes along. They need to be Long Range (2010 to 2015). There are eleven general goal topics that they are looking into as well as Goal Champions, they are as follows:

<u>Project Name</u>	<u>Goal Champion</u>
Maximize actual operational energy performance of buildings & facilities	Martha Hewett
Progress toward cost-effective net zero energy buildings	Jim Brodrick
Residential retrofit energy efficiency	Larry Markel
Quantification of IEQ benefits	Bill Fisk
Energy Standards Development, Compliance and Enforcement	Steve Taylor
Building Information Modeling of energy efficient, high performing buildings	Hywel Davies
Load calculation methods, energy calculation methods and design procedures Suitable for low energy and net zero energy buildings	Jeff Spitler
Natural refrigerants and refrigerant charge reduction	Zahid Ayub
Improve specific components of HVAC&R systems	Wayne Reedy
Support of Advanced Energy Design Guides	Don Colliver
Transform engineering and architectural education	Alison Kwok

TC 3.2 specifically mentioned as a target.

There is a Research Advisory Panel being formed that will continue to address the Long Range Plan.

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 people are welcome.

- RTAR 1410 – Effects of System Materials Towards the Breakdown of POE Lubricants and HFC Refrigerants Part 2 – The Work Statement is being completed and will be submitted to RAC in February. RTAR 1410’s committee includes: Bob Doerr, Jay Field, Joe Karnaz, and Steve Kujak - Chair. The committee will continue to prepare the work statement.

MOTION #2 A motion was made by Sonny Sundaresan and seconded by Stephen Kujak to approve WS 1410 as submitted by Robert Doerr and the Research Subcommittee.

Approved 7/0/0 CNV

- RTAR 1409 – Stability of Candidate Lubricants for CO₂ Refrigeration Systems – Work statements are complete and accepted. The WS are going out to bid this February.

It was mentioned that the TC Chair needs to appoint a person on the committee to be a liaison with the Strategic Research Advisory Panel Goal Champion. The RAP is suggesting that one of the subjects be Natural Refrigerants. The Chairman is asking for volunteers. Liz Dixon volunteered for the position.

Webmaster – Dave Vincent

- Dave was not at the meeting however, he did mention to the Chair that the TC 3.2 Website through the ASHRAE website is alive and well.

Membership – Ken Lilje

A rollover roster is being generated, when this submitted it will take effect July 1, 2009.

- Danny Halel reviewed the new roster to take effect on July 1, 2008 as well as the dates of service.

Voting Members – 8 International Members - 1 Corresponding Members – 32

Leadership of the committee is as follows:

Tom Leck – Chair

Raymond Thomas – Vice Chair

Danny Halel - Secretary

Sonny Sundaresan – Handbook

Ken Lilje – Program

Rob Yost - Standards

Elizabeth Dixon – Standards

David Vincent – Webmaster

Scott Gustafson - ALI

Old Business

No old business was brought before the committee.

New Business

- Sonny Sundaresan wanted to recognize Jay Field on his promotion to ASHRAE Fellow.
- If you would like to have your manager or company receive a letter from ASHRAE thanking you for service.

Our next Meeting will be on June 22 in Louisville, KY.

Adjournment

MOTION #3 A motion was made by Sonny Sundaresan and 2nd by Joe Karnaz to adjourn the meeting at 3:51pm.

Respectfully submitted,

Danny Halel
Secretary TC 3.2