



**ASHRAE** American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

---

**Technical Committee 3.2 –Refrigerant System Chemistry**

Draft Agenda - Annual Meeting 2009 - Louisville

Monday June 22<sup>nd</sup> 2:15 to 4:15 pm

Galt House Hotel, Suite Tower, Third floor, French

<http://www.ashrae.org/technology/page/1733>

1.) Call To Order (**Tom Leck**)

- Introduction of Members and Guests

2.) Confirmation of Quorum (**Tom Leck/Danny Halel**)

3.) Approval of 2009 Annual Meeting Minutes – Chicago (**Chair**)

Motion: Yost / Second: Thomas For: 7 Against: Abstain:

Cecily ---Handbook Liaison Report

Final submission end of July deadline – submit to Cecily and copy to handbook editor

CD Plus Handbook subissions next Feb 1 2010

Must be voted on and approved by the Committee

Handbook Central on the web site

4.) Report of TC Chair’s Breakfast (**Chair**)

- This meeting provides the Section Three Chairs’ a forum for distribution of current direction and guidelines for any requirements related to ASHRAE activities including technical and research direction, standards, publications, etc.

5.) Liaison Comments (may be adjusted to accommodate the Liaison’s schedule)

6.) Subcommittee Reports

Program (**Ken Lilje**)

**Review of Louisville Schedule (Check final program to confirm time / locations):**

Programs of possible interest to TC 3.2 members include :

Seminar 46 8 AM Wed, Retrofit and Next Generation Refrigerants for Centri. Chillers (Jones)

Seminar 47 8AM Wed, Retrofit of R-22 in AC Systems (French)

Seminar 57 11 AM Wed, Systems with Natural Refrigerants (French)

**Discussion on Future Programs: (Ken Lilje)**

**Danny Halel: Will sponsor session on CO2 chemistry, possibly for Orlando – will work with Ken Lilje and Allen Cohen. Seminar Session Topic: Fundamentals of CO2 Systems, Chaired by Ken Lilje**

**New Mexico: Seminar Proposal: Sonny: Issues with Total Acid Number**

**Acid Number as health indicator for systems**

**Possible Speakers: Jay Field, someone from Danfoss per Alice Reimer,**

**Rob Yost: Real World Data**



**ASHRAE** American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

---

Handbook (Sonny Sundaresan) Chapter 5 – Refrigeration System Chemistry.

- The draft was reviewed and voted on by letter ballot.
- Motion by Sonny, second by Yost to reaffirm Committee support for the revised Handbook Chapter passed 7/0/0 CV

Standards (Rob Yost)

SPC 175 Testing in Metal Pressure Vessel – Joe Karnaz chair

Analog of Std 97 sealed tube stability but for larger metal vessels

Need one more member on this SPC committee meet CC 206 immediately after this meeting

Std 141P needs update: Method of test for Refrigerant Impurities – being obleted, off the agenda

Std 172 Method for test of insoluble materials formerly Jay Field, similar to Floc Point test, but with refrigerants other than R-12 – Moved to TC 3.4 under Liwen Wei, but members and correspondants to TC3.2 are able to participate 8 AM Monday is the meeting slot Joe K, Rob Y, Rosine R. members.

Research (Raymond Thomas for Elizabeth Dixon):

Note: Combined TC 3.2, 3.3, 3.4 Research Subcommittee Meeting –

**Update from Ray Cohen from Research Meeting Monday Morning (Ray Cohen)**

**Ray Cohen reminded the Res SC that Research Liaison should be involved in every project bid evaluation.**

**There should be a status report on every research program in progress each year.**

**The Strategic Research plan is being updated with # Goals being reduced from 10 to 5**

**Status of current proposals:**

**1410 to be resubmitted by Bob Doerr by Wednesday AM at Bob's discretion to incorporate changed**

(From Liz Dixon June 22) Here's what I have for TC 3.2 :

1409 – please find my evaluation of the bids attached. Based on those bidders scoring >70% being technically capable and therefore then selecting the lowest priced bid, Spauschus would be the successful bid, as their bid was appreciably lower than others.

I have not received Sonny's input (3 members of PES need to evaluate the bids).

1410 – please see email sent to Tom this morning, the WS has not yet been submitted to Mike Vaughn, but it was completed by Bob Doerr earlier this year and Ray Cohen has provided some minor comments (which Bob will not have seen yet as they were only sent to me). Bob needs to review these minor

comments and amend the WS if he desires to make any minor changes, then we can submit to Mike Vaughn.

1249 – complete. Ken was going to send a the final piece of paperwork to Ray, which as I recall is just a standard document confirming the project is complete.

6.) Webmaster (**Dave Vincent**)

- Minutes from Chicago and Agenda for Louisville posted to web site.
- Still links from ASHRAE to Daves web host.

7.) Membership (**Tom Leck**)

See attached roster

Will be 9 voting, 2 Intl, about 32 corresponding members

8.) Old Business

ASHRAE letters of appreciation

9.) New Business

Meeting in Orlando, Mon Jan 25, 2010

10.) Adjourn Sonny / Joe Karnaz

**Technical Committee 3.2, Refrigerant System Chemistry**

TC 3.2 is concerned with all chemical reactions occurring inside refrigerant systems and with effects of temperature, pressure and materials on the reaction rates. Materials of primary interest include refrigerants, lubricants, lubricant additives, motor insulation, driers, and metallic structural materials.