

ASHRAE MEETING MINUTES - Chicago

TC 2.3 - Gaseous Air Contaminants/Removal Equipment TC Meeting

Tuesday, June 28, 2003

13:00 - 15:30

Palmer House Hilton (Rm. Dearborn 1)

NOTE:

These are the official meeting minutes and have been approved.

- The meeting was called to order at 13:03 pm by Chairman Doug VanOsdell. The attendees that completed the Meeting Sign-In sheet were:

Name	Email address
Doug VanOsdell (Chairman)	dwv@rti.org
Gemma Kerr	inair2@cyberus.ca
Brian Krafthefer	brian.krafthefer@honeywell.com
Scott Hanson	shanson@bruckerco.com
Dean Tompkins	dtompki@facstaff.wisc.edu
Bob Hendry	bob.hendry@gtri.gatech.edu
Karin Foarde	kkf@rti.org
Matt Middlebrooks	matt.middlebrooks@bbfiltration.com
Chris Muller	chris.muller@purafil.com
John Copley	jcopley@customfilter.net
Phil Winters	pwinters@filtrationgroup.com
Derald Welles	dwelles@ix.netcom.com
Marilyn Listvan	mlistvan@pmlink.com
H.E. Barney Burroughs	heburroughs@mindspring.com
Paolo Tronville	paolo.tronville@polito.it
Nick Agopian	nagopian@dectron.com
Christopher Flaherty	cflaherty@dectron.com
Paul Nelson	nelson@rjrt.com
R.M. Culbert	rmculbert@aoflphia.net
Larry Schoen	larry@choenengineering.com
Kathy Walker	kwalker@customfilter.net
Chuck Rose	crose@aafintl.com
Stephen Zitin	shzi@meadwestvaco.com
Erik Kuiper	erik@mail.ashrae.org
Ron Domitrovic	rdomitrovic@atmosphericglow.com
Kyung-Ju Choi	kcha@aafintl.com
Chuck Schroeter	fsifla@bellsouth.net

K.C. Hsieh	kchsieh@aol.com
Dave Midkiff	dmidkiff@kcc.com
Ronald Trochuck	rtrochuck@dpsystemllc.com
Monroe Britt	mbritt@airguard.com
Stan Slabinski	Stan-slabinski@munters.com
William Lull	TC23@garrisonlull.com
Michael Corbat	mcorbat@filtrationgroup.com
Bill Leedy	bleedy@westvacobrandsecurity.com
Jeffrey Roseberry	jeffr@prumaskassociates.com

- Attendee' self-introductions were made.
- Motion was made and seconded to approve the meeting minutes of Honolulu. Voting on approval of the minutes - 13, 0, 2, 15.
- Roster check was made. Voting members present:

Doug VanOsdell
 Brian Krafthefer
 Dean Tompkins
 Paulo Tronville (international)
 Marilyn Listvan
 HE (Barney) Burroughs
 Gemma Kerr
 Nick Agopian
 Matt Middlebrooks
 Scott Hanson
 KC Hsieh
 Eric Kuiper (international)
 Bill Lull
 Derald Welles

14 present of 15 total (Charlene Bayer absent) including 2 international members; a quorum was present.

Corresponding Members Present – 9
 Voting Members present – 14
 Guests – 13

Subcommittee Reports Made:

Planning (Eric Kuiper, Chair)

- Meeting held with 7 people present. Road map (5 year at present) will be developed to be proposed by Brian Krafthefer; brain-storming was good. Paulo will distribute the minutes.

Membership (Scott Hanson, Membership)

- Six positions will be rolling off after the Kansas City meeting. Currently there are 6 corresponding members that need to be rolled up. Scott made a plea to be the new membership chair; Paul Nelson volunteered to be the new chair for the Membership committee.
 - Chair – Doug VanOsdell
 - Vice Chair – Eric Kuiper
 - Secretary – Dean Tompkins
 - Research – Karin Foarde
 - Planning (Vice-Chair) – Eric Kuiper
 - Membership – Scott Hanson through Kansas City then Paul Nelson.
 - Standards – Brian Krafthefer
 - Program – Dean Tompkins
 - ALI (ASHRAE Learning Institute) – Doug VanOsdell
 - Handbook – Derald Welles would like to pass that on to someone else. Gemma Kerr agreed to be the new chair of the Handbook.
 - International – Paulo Tronville, Eric Kuiper
 - Website – Nick Agopian
 - Publications – Marilyn Listvan
- Barney, KC, Bill, Dean, Scott are rolling off due to their time being up. They will roll off after the Kansas City meeting. Looking for consultants. Chris Muller, Chuck Schroeder, Paul Nelson to roll up to be voting members. Bob Hendry agreed to be a corresponding member.
 - Marilyn Listvan mentioned that all corresponding members need to (re-do) place their biographical sketch up on the ASHRAE web-site.

Program (Dean Tompkins, Chair)

- **Program items for future meetings were prioritized through votes of attendees as follows:**

KANSAS CITY (Summer 2003)

1. **FORUM:** IAQ Needs: Humid Environments (Chair: Charlene Bayer)
2. **SEMINAR:** Filtration for Compliance w/ IAQ Procedure of Stand. 62 (co-sponsor TC 2.4; Chair: Chris Muller)
3. **SEMINAR:** Filtration for Chemical and Biological Agents (co-sponsor TC 2.4; Chair: Brian Krafthefer)

ANAHEIM (Winter 2004)

- SYMPOSIUM:** Applications of UV Photocatalysis for Gaseous Contaminants (Chair: Marilyn Listvan)
- FORUM:** IAQ Needs: IAQ for Hotels (co-sponsor with TC 2.4; Chair: Al Veeck)

SEMINAR: Ventilation and Air Cleaning for Bars, Restaurants and Casinos (Chair: Chris Muller, Paul Nelson)

SYMPOSIUM: VOC Emission / Adsorption, & IAQ (co-sponsor with TC 4.10; Chair: Gemma Kerr, Steve Emmerich)

NASHVILLE (Summer 2004)

SYMPOSIUM: Review/Update on Odor (Chair: Brian Krafthefer)

SYMPOSIUM: IAQ – Filtration (co-sponsor with TC 2.4; Chair: Kyung-Ju Choi)

FORUM: Measurements of Gas Phase Contaminants: Who's kidding whom? (Chair: William Lull)

SEMINAR: Filtration for Improved Indoor Air for Hospitals (co-sponsor with TCs 2.4 and 9.8; Chair: Chuck Schroeter, Al Longton)

Voting on Programs - Motion made, seconded, with voting results: 14,0,0,14

Handbook (Derald Welles, Chair)

- Handbook Chapter 44 was submitted and ASHRAE should get back to us with comments.
- 10 members present for the subcommittee meeting:
 - Chapters 12 (May 24, 2002) – Chapter 13 (June 14, 2003) have to be rewritten. Comments to Gemma by March 1, 2003 pertaining to needs for rewrite and April 1, 2003 for the rewrite.
 - Chapter 13 (Joe Pedtly did the rewrite on it last time) – Derald Welles will be the lead on this chapter. Derald mentioned that reviewers requested more real world examples. Chris Muller, Olle Fanger, Bill Cain, Ron Domitrovic to get comments back to Derald upon review. Diotima Vonkempski is considered a likely person to help Derald also.

Standards (Brian Krafthefer)

- Standard 62.1 – Highlights – There is a need to identify the level that gaseous filters can achieve with regard to removal of ETS. Best Practices for the OM guidelines. Standard 62.1 is charged with writing their own guideline (Guideline 19P: Ventilation for Acceptable Indoor Air Quality). 62.1 is a minimum code standard. (e.g., when outdoor air does not achieve a certain level of outdoor air cleaning, the only requirement is that the building owner/manager be notified. Also, a MERV 6 filter is all that is required for filtration. Minimal handling of ozone is discussed in 62.1.) Chuck Schroeter, Gemma Kerr, Steve Zitin agreed to help/assist Scott and the Guideline 19P.
- Discussed a number of Standards – e.g., 145 (145.1, 145.2).
- Motion made by Standards subcommittee to have the TC 2.3 to ask ASHRAE to go to ANSI to reactivate ISO 142 committee. SPC 142 is “Cleaning and Equipment for Air and Other Gases.” ASHRAE should go to ANSI to negotiate the secretariat. If approved a letter needs to go up to the ASHRAE meeting; Chris Muller and Brian Krafthefer will co-draft a letter and send to Doug for his signature. This needs to be done by April 15.

Voting - Motion made, seconded, with voting results: 14,0,0,14

- SPC 161 – TC 2.3 should be involved in this standard; Eric Kuiper is on the SPC 161 committee and will provide information on this subject.
- 62.2 resolved all comments at this meeting; one more public review; likely that the draft will be voted forward ; still retains the clause that a MERV 6 filter be used with any filtration equipment that is 10 ft.

Research (Karin Foarde)

- Bob Hendry and Charlene Bayer have sent out their final report but did not make it through ASHRAE HQ. Therefore, voting on that will have to wait.
- 1243-RP – Phase II – AQS has just started up.
- One RTAR was submitted and approved. RAC reviewed 46 RTARS from 29 TC and 12 were prioritized and 10 were selected. One RTAR was rejected.
- RTAR accepted (Comparison of GPAC lab tests to field experiments (Matt Middlebrooks is lead on RTAR). April 1 is the deadline for getting the work statement in. The strength of this RTAR is that the work will support the needs of a standard.

UPDATE (May 13, 2003): The following remarks occurred via e-mail from TC 2.3 Chairman VanOsdell and are included in these minutes:

The TC 2.3 RTAR "Comparison GPFAE Lab Tests to Field Experience" has been approved by email ballot. The vote was 12-1-0-13 [Approve-Disapprove-Abstain-Voting) and 2 people not voting = 15 total committee members. ASHRAE has receipted it and the WS will be tracked as #1302-WS. Karin submitted it to ASHRAE today without change from the copy emailed to you about 2 wks ago.

The "disapprove" vote was based on a several suggestions to improve and extend the WS, not opposition to the idea of doing the work. These included adding media mixtures to the required media in the research and requiring explicitly certain measurements not mentioned in the WS. Others suggested the tests be conducted at low test concentrations (ppb).

All comments were forwarded to those who drafted the WS, who responded to those raising the issues. To the particular comments above, the authors responded (with explanations much more complete than this) that adding media mixtures would increase the cost and getting what was now required was an important first step. Not explicitly adding a full list of measurements was seen as a way to gauge whether bidders could actually do the work. Low test concentrations are seen as important, but more characteristic of the indoor air market. The ~1 ppm level is seen as adequate for the residential/industrial market and as a level that can be done at reasonable cost as given to ASHRAE in the RTAR.

The motion to approve carries and the work statement can be submitted to ASHRAE by the TC 2.3 research subcommittee chair.

- Gemma Kerr brought an RTAR from TC 4.10 “Modeling VOC sorption of Building Materials and Its Impact on Indoor Air Quality – Phase II (Second Phase of RP-1097).” Motion made and seconded that TC 2.3 agrees to *co-sponsor* this project. Gemma raised the issues surrounding this project. The concern is that the project would be largely an academic exercise and not have some real world use. However,

Voting results – 7, 5, 2, 14 (2/3 of a vote was not achieved.)

Reason for “no’s” : Barney (not our work); Bill (no demonstrated evidence of a usable goal); Derald (too confusing); KC (co-sponsorship); Doug (believes that 4.10 is not pushing this project into the field usable results); Dean (need to have TC 4.10 revisit the concern of getting field-usable results); Nick (do not know enough to vote confidently).

ACTION Items for New Research to Be Discussed at Annual meeting in Kansas City:

- 1) Scott Hanson is bringing forth that we put in research in support of Standard 62.
 - 2) Nick Agopian mentioned that TC 7.5 (co-sponsored by 9.8) – chlorine is put into pool water and chloramines are formed and off-gassed from pools that migrates into building ductwork. TCs are looking for co-sponsorship from TC 2.3. Gemma Kerr agreed to help work on the work statement; Paul Nelson will send Gemma the pertinent peer-reviewed literature.
- Coordination on TC 3.5 (Bill Lull) – There is no need to do research on the subject of VOCs and water vapor. RP 475 will finish to find out 1) how adsorbents from filtering the air (e.g., they tested alumina without alumina permanganate) and 2) how they can be used to control biocontaminants.

Publications (Marilyn Listvan)

- Meeting held and had 10 members present.
- **ACTION Items** from meeting:
 - 1) Determine if ASHRAE has an IAQ Proceedings available. There is a desire to scan the proceedings prior to 1998.
 - 2) ETS references are taken out of Standard 62; TC 4.3 is taking on the responsibility to handle ETS; including input from Nick Agopian.
- *Question was raised and answered:* How are Special Topics’ issues include into an ASHRAE publication? A list of topics was generated and is in the subcommittee meeting minutes. Special Publication Ideas (from Bill Lull and Lou Harriman are ideas for Museums).
- The Report of Presidential Ad Hoc Committee for Building Health and Safety under Extraordinary Incidents (approved 26 January 2003) is 77 pages long and available at <http://xp20.ashrae.org/about/extraordinary.pdf>.

Website (Nick Agopian)

- ASHRAE web-site is offering many features that look attractive for hosting TC 2.3 website. The chair recommends that we keep our own web-site but place into it the features that are available on the ASHRAE web-site; get the information faster and update it monthly; placement of seminars. Nick is working ad-hoc and will work closer with Eric. There is a request to have a quarterly ‘tickler.’

Motion made and seconded to stick with our own web-site location. Voting results: 14, 0, 0, 14.

TC Liaison Work:

- No business.

New Business:

- ASHRAE Learning Institute (Doug Van Osdell is liaison) is being developed.
- Project Monitoring committee (Nick is our representative).
- ASHRAE is forming a technical working group on chemical, biological warfare agents.
- Anyone who wants to be a corresponding member, but fill out a BIO form.

Motion made to adjourn the meeting, seconded. Voting results: 14, 0, 0, 14.

Meeting adjourned at 15:10.