

ASHRAE MEETING MINUTES – Long Beach, California
TC 2.4 - Particulate Contaminants/Removal Equipment
Main Committee Meeting

Tuesday, June 26, 2007 3:30 - 6 p.m. (Renaissance Hotel, Renaissance Ballroom V)

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SCOPE: “TC 2.4 is concerned with the nature of particulate contaminants, both solid and liquid; the measurement of their properties; their effects on living things and materials; both solid and liquid; the means of removing unwanted particulate contaminants from gases; and the evaluation of the effectiveness, energy usage, and the economy of such purification equipment. For both ordinary and extraordinary situations including hostile acts the TC is concerned with the effects of particulate contaminants on the quality of air supplied to and exhausted from enclosed spaces, and with the sources of particulate contaminant pollution within such spaces. The scope of TC 2.4 does not include purely physiological or toxicological aspects of particulate pollution”

All following votes recorded as for-against-abstain-absent-total

1. Call to order..... Charlie Kern, Chair

Introduction of guests and members.

Particle Party Announcement by Marilyn Listvan (SuperMex at 7:15 pm)

Roll call – Phil Winters

Member	Pres	Abs	Member	Pres	Abs
Mark Renn	X		Jim Moulton		X
Charlie Kern	X		DeeAnn Nelson		X
Peter Shipp	X		Don Thornburg	X	
Bob Burkhead	X		Al Veeck	X	
Derald Welles		X	Eric Kuiper (International)	X	
Jim Hanley	X		Brian Krafthefer		X
Jim Kubokawa	X		Eric Brodsky		X
Tom Kuehn	X		Scott Hanson		X
Bruce McDonald	X		Monroe Britt	X	
Jeff Siegel	X				
			Total	13	6

49 total attendance at meeting, 13 voting members (including 1 international member), 19 Corresponding members and 17 visitors/guests. We have a quorum.

The minutes of the Dallas meeting were modified as follows:

- Note that one page (Standards section) was missing in the paper copies.

Approval of previous meeting minutes (Dallas, Texas)

Move to approve minutes by Al Veeck and 2nd by Don Thornburg

Vote to approve: 13-0-0-5-18-CV (Yes-No-Abstain-Absent-Total-CV or CNV)

Section 2 Liaison Report - None.

2. Membership Subcommittee Report.....Bob Burkhead for Tom Justice

- Rolling off after this meeting - Charlie Kern, Eric Brodsky, Scott Hanson, Jim Kubakowa, Tom Kuehn, Bruce McDonald, James Moulton, DeeAnn Nelson, & Derald Welles.
- Adding Phil Winters, Marilyn Listvan, Chuck Schroeter, Bob Witt, Gemma Kerr, Dave Matier, Paolo Tronville (International).
- New officers – Bob Burkhead (Chair) , Phil Winters (Vice Chair), Jim Hanley (Secretary), Jeff Siegel (Research), Mark Renn (Vice-Chair Research), Don Thornburg (Standards), Charlie Seyffer (Program), Chuck Schroeter (Handbook), Erik Kuiper (Webmaster), Brian Krafthefer (ASHRAE Learning Institute Liason), Tom Justice (Membership), Marilyn Listvan (Publications)

Move to approve Membership Report by Don Thornburg and 2nd by Jeff Siegel
Vote to approve: 13-0-0-5-18-CV

3. Research Subcommittee Report..... Jeff Siegel

- Jeff Spitler is rolling off as our Research Liaison. Sriram Somasunduram will be our new RL.
- Update from Research Subcommittee meeting.
 - Conflict of interest will be relaxed. No details.
 - Funding should be more consistent. Using a reserve fund to level out load.
 - RAC trying to make their comments more consistent, by reviewing all previous comments and responses.
 - No more need to submit a Prioritized Research Plan. Work Statements and RTARs won't need to list priority number.
- Ultrafine aerosol WS that would extend Standard 52.2 down to 0.02 microns needs to be revised and updated very soon or it will be dropped by RAC. This is quite old and would need to be put into the new WS format.
 - Erik Kuiper agreed to Champion it and lead a group to rewrite it. A straw vote showed that the TC was generally in agreement that this should be supported.
- Discussion about a no-cost extension for 1281-RP.
 - Motion by Jeff Siegel to approve a no-cost extension, if needed. Second by Erik Kuiper.
 - Approved 12-0-0-6-18-CV
- Discussion in Executive Session regarding 1287-WS "Particle Counter Specification for Use with Filter Performance Test Standard ANSI/ASHRAE 52.2"
 - Motion by Al Veeck to accept the PES recommendation for contract award, with second by Jeff Siegel.
 - Approved 12-0-0-6-18-CV (one Voting member was out of the room because they were a bidder)
- There was general agreement that the use of the last hour of the Research Subcommittee meeting for RTAR & WS writing & editing was quite useful. Jeff will continue to do this.
- Submitted the minutes of the Research Subcommittee (deferring discussion of Section VI). Full copy of these minutes follows on the next page.

Motion made by Jeff Siegel to accept the minutes, 2nd by Bruce McDonald.
Vote passed 12-0-0-6-18-CV

DRAFT ASHRAE RESEARCH SUBCOMMITTEE MEETING MINUTES

Long Beach, CA

TC 2.4 - Particulate Contaminants/Removal Equipment

Sunday June 24, 2007

3:00-5:00 p.m.

Long Beach Convention Center Room 204

- I. Call to Order **3:04 pm**
- II. Introductions **36 signed in attendees**

III. Review of Agenda

Mark Renn, TC2.4 Research Subcommittee Vice-Chair, will take over meeting and report at main TC2.4 meeting on topics where Jeff Siegel is a bidder or contractor (i.e. V.b.).

IV. Announcements

V. Current Projects (20 minutes)

- a. 1281-RP Identification, Classification and Correlation of Ultrafine Indoor Airborne Particulate Matter with Outdoor Values
Principal Investigator, Shelly L. Miller
PMS Chair, Charlie Kern
PMS still awaiting final portion of final report. According to PI, should be submitted by end of the month
- b. 1299-TRP Energy Implications of Filtration in Residential and Light Commercial Applications
Principal Investigator, Jeffrey Siegel
PMS Chair (Erik Kuiper)
Project started late (beginning of May). University of Texas and ASHRAE had a protracted negotiation period.

VI. Chronologically-gifted (i.e. old) Research Plans (35 minutes)

- a. 2002-2003 Priority 4
RTAR 2002-23 1287-WS Particle Counter Specification for Use with Filter Performance Test Standard ANSI/ASHRAE 52.2
Championed by Erik Kuiper
Out for bid, proposals due May 15, 2007.
PES has recommendation.
- b. 2005-2006 (Priority 1) 1360-WS: How do filters change through their life: pressure drop, efficiency, weight gain and dust composition.
Authored by KJ Choi
Comments from RAC need to be addressed and resubmitted.
Still addressing comments. Several ideas put forth and KJ is integrating them into submission.
- c. 2005-2006 RTAR #1407 (Priority 2): Measuring filter bypass
Authored by David Matier
Need work statement.
Major issue. UIC (Doug Kosar *et al.*) are working on related project that may eliminate the need for this WS. Will wait for results (New York?)
- d. 2006-2007 RTAR #1466 (Priority 1): Development of a Calibration Reference for Use with Test Standard ANSI/ASHRAE 52.2-1999
Championed by Jim Kubokawa
Accepted by RAC with comments, needs to be developed into work statement
Using old work statement. Several ideas put forth, including those for cofunding. Submission forthcoming.
- e. 2006-2007 Priority 2 What are the factors that cause variation in 52.2?
Championed by Jim Hanley and Monroe Britt
Need RTAR.
Monroe is taking over as champion.
- f. 2007-2008 Priority 1 Effectiveness of filtration/ventilation on ultrafine particles.
Championed by Phil Winters and Scott Hanson
Need RTAR.
Charlie Kern will take over as Champion. Some question about needed focus and will need to wait until the final report is submitted and approved to avoid duplication and make a stronger RTAR.
- g. 2007-2008 Priority 2 Shedding/reentrainment MOT, field results.

Championed by Erik Kuiper and Bob Burkhead
Need RTAR.

Draft ready for submission pending polishing. Will be submitted to TC2.4 for a mail ballot prior to Liaison review.

VII. Group Work Statement/RTAR Writing (60 minutes)

Feedback on process/value of this agenda item?

Comments from Research Subcommittee Chairs breakfast

Jeff Spittler is rolling off as our RAC liaison. New liaison is Sriram Somasundaram.
WS and RTAR submissions are declining. RAC is listening to comments and survey results.
Conflict of interest rules will likely be relaxed/changed.
Attempting to make funding more consistent.
Improving RAC comment/resubmission process.
Prioritization is internal/planning process. Prioritization might (will?) not show up on future WS and Research Statements.

TC2.4 Specific

Ultrafine Particle WS.
No-cost extension for 1281-RP?

4. Standards Subcommittee Report.....Don Thornburg

- Planning to withdraw 52.1, but this needs a public review. Paperwork to ASHRAE by 7/25/07 to get public review started by 9/14/07.
- New SSPC 52.2 Officers should be approved, although Peter Shipp may not for timing issues.
- Probably a called meeting of SSPC 52.2 between now and the New York ASHRAE meeting.
- Motion by Don Thornburg to remove the Chair of GPC 17 (Brian Krafthefer). Second by Bruce McDonald.
 - Approved 13-0-0-5-18=CV
- Motion by Don Thornburg to name Erik Kuiper as the new Chair of GPC 17. Second by Bruce McDonald.
 - Approved 12-0-1-5-18-CV (Erik Kuiper abstained.)
- Motion by Don Thornburg to name Charlie Kern as ASHRAE representative to ISO/TC142 for the next 5 years. Second by Bruce McDonald.
 - Approved 12-0-1-5-18-CNV (Charlie Kern abstained.)

Motion to approve Standards Report (with minor editorial changes), by Don Thornburg and 2nd by Bob Burkhead.

Vote to approve 13-0-0-5-18-CV

**ASHRAE STANDARDS SUBCOMMITTEE TC 2.4
MEETING MINUTES**

Monday, June 25, 2007, 4:15 p.m. – 6:00 p.m.
Long Beach CC, 201A – Long Beach, CA

*****Minutes revised in TC 2.4 and accepted by the TC 2.4 Committee, June 26, 2007*****

Meeting convened at 4:15pm with 33 present. Sign in sheet attached (Attachment 1)

1) Update on standards within scope of TC 2.4:

- a) **SPC 52.1 Gravimetric & Dust Spot M.o.T Air Cleaners – Monroe Britt**
 - i) Withdrawing 52.1 requires a public review.
 - ii) Paperwork will be issued to ASHRAE by July 25 for the September 14, 2007 public review
- b) **SSPC 52.2 M.o.T. Air Cleaners for Particle Size Efficiency – Jim Hanley**
 - (1) Addendum A – Conditioning – No progress

- (2) Addendum B – moving 52.1 into 52.2 – Committee responses to the PR comments are completed and will be finalized to ASHRAE very soon.
- (3) New officers: Chairman – Don Thornburg, Vice-Chair – Erik Kuiper, Secretary – Peter Shipp
- c) **SPC 180P – Inspection & Maintenance of HVAC Systems – Charlie Seyffer**
 - i) No report
- d) **SPC 185.1P Elimination of Microbial Contaminants in Air – Derald Welles**
 - i) There is now 185.1 & 185.2
 - ii) SPC 185.2 Test for the Elimination of Microbial Contaminants on Surfaces in Air Handlers and Ducts
 - iii) SPC 185.1 should have a draft out at the SLC meeting
 - iv) SPC 185.2 just beginning
 - v) We will move the reporting on both 185's to the Liaisons section with Karin reporting
- e) **GPC 17 Sampling of Airborne Particle Concentrations – Erik Kuiper**
 - i) Document is almost ready for publication
 - ii) Status is the same. No one was able to make contact with Brian despite many attempts.
 - (1) TC 2.4 needs to vote to remove Brian as Chair
 - (2) TC 2.4 needs to vote to accept Erik as Chair
 - (a) New Chair will get the new committee going to finalize the almost complete document
- f) **GPC 26 In-Situ Test Method – Don Thornburg**
 - i) Public review draft approved by the GPC in Long Beach
 - (1) Missing a vote from one member. This will be taken by letter ballot.
 - ii) With a unanimous vote from the GPC this document will be on the fast track for public approval
 - iii) Public review will begin September 14, 2007

2) Official Liaisons:

- a) **TC 2.3 – Karin Foarde (Erik Kuiper)**
 - i) Research has 1 proposal out for bid and bids are received
- b) **TC 2.9 – UV Air & Surface Treatment – Karin Foarde (Derald Welles)**
 - i) Next ASHRAE handbook will have a UV chapter
 - ii) Forum at noon on Tuesday and Seminar on Wednesday
- c) **TC 5.4 – Industrial Air Cleaners – Bruce McDonald**
 - i) Research is underway to develop a Standard for Testing and Stating the Efficiency of Industrial Pulse Cleaned Dust Collectors
 - (1) Phase 1 report almost done
 - (2) No cost extension until July 2008 is underway
- d) **TC 9.3 – Transportation Air Conditioning – Paolo Tronville**
 - i) No meeting in Long Beach
 - ii) Research WS ready Air Quality on Alertness for Flight Crew and Automobile Drivers
- e) **TC 9.5 – Residential & Sm. Bldg. Applications – Marilyn Listvan**
 - i) No report
- f) **TC 9.6 – Health Care Facilities – Derald Welles**
 - i) Rick Hermans is heading up the rewrite of the Healthcare Handbook
- g) **TC 9.11 – Clean Rooms – Phil Winters**
 - i) Program in Long Beach
 - ii) No research projects ongoing
- h) **SSPC 62.1 – Commercial Ventilation – Charlie Seyffer**
 - i) No report
- i) **SSPC 62.2 – Residential Ventilation – Barney Burroughs**
 - i) No Report
- j) **SPC 161 – Air Quality in Commercial Aircraft – Erik Kuiper**
 - i) The document has to have ASHRAE Board approval and should have that and be published this year
 - ii) Discussing SPC vs. SSPC status
- k) **SPC 170 – Ventilation of Healthcare Facilities – Zied Driss**
 - i) Revision to document is almost done and it should go out in the September public review
- l) **GPC 28 – Aircraft – Erik Kuiper**
 - i) This was moved out of SPC 161 to allow it to go forward.
 - ii) The guideline went out for public review and finished with comments, but no quorum.
 - iii) Work is complete and a letter ballot will proceed to get the vote.

3) Information Exchange:

- a) **AFS – KJ Choi**
 - i) Annual Conference – Valley Forge, PA, May 19-22, 2008

- ii) Fall Topical Conference “Emission Solutions in Transportation”, Ann Arbor, MI October 15-18, 2007
- b) ARI – Terri Wytko**
 - i) No Report
- c) ASTM-AG-1 Section FC – Bill Cambo**
 - i) Meeting in July 17-18 Columbus, OH on Nuclear Filtration
- d) ASTM-F11.23 Vacuum Cleaners – KC Hsieh**
 - i) No Info. To be dropped.
- e) CEN – Committee for European Normalization – Paolo Tronville**
 - i) TC 195
 - (1) Public inquiry on Germany relinquishing the Secretariat
 - (a) Italy has offered to take over and we should know a status in a few days
 - (b) If Italy takes over there probably will be a meeting in Paris in September, 2007
 - (2) The following groups are waiting on the new Secretariat
 - (a) WG 2 – EN-1822
 - (i) Proposed definitions (E10-12, H13) will align better with the US definitions
 - (b) WG 4 – Face dimensions of filters
 - (c) WG 5 – Gas phase removal devices
 - (i) Combine with ISO WG 8
 - (3) WG 1 – EN-779
 - (a) Moving to classification only using preconditioned efficiency
- f) Eurovent – Paolo Tronville**
 - i) Plan is to meet in Paris on the Friday after WG3 meets on Wednesday in September
 - ii) Energy rating Classification system needs work as they need to tie the efficiency into the filter system
- g) IEST – Institute of Environmental Sciences and Technology – Phil Winters**
 - i) RP 7.2 Testing of ULPA
 - (1) Comment reconciled and the document is into IEST for publication
 - ii) RP 36.1 Testing Fan Filter Units – Monroe Britt
 - (1) They met in May and will need at least 2 more meetings until a document is ready for IEST
- h) INDA – Bob Burkhead**
 - i) Filtration 2007 will be in Chicago, Nov 13-15, 2007, Navy Pier, Theme is Healthcare
- i) ISO TC 142 Cleaning Equipment for Air and Other Gases**
 - i) TC 142 – Paolo Tronville
 - (1) Next meeting in Beijing, China, November 7, 2007
 - (2) WG 3 HVAC Filter Testing – Jan Gustavsson, Sweden (Co-Convener, Don Thornburg, US)
 - (a) Draft DIS 21220 is out for 5 month Public Review
 - (b) Next meeting is in Paris September 26, 2007
 - (3) WG 4 HEPA/ULPA Testing – Vijay, US
 - (a) Work item accepted and went out for a vote. They have to resolve some negative votes
 - (4) WG 1 Terminology – John Dymont, UK
 - (a) New work item accepted
 - (5) TG 2 Residential Filtration – Phil Winters, US
 - (6) WG 8 Gas phase – Keith Morris, UK
 - (7) WG 9 Air Intake for Stationary Rotating Machinery – Ulf Johansson, Sweden
 - (8) TG 12 UVC Devices – Derald Welles, US
 - ii) US TAG – Phil Winters
 - (1) Meeting on Wednesday Long Beach, LBCC, 103A, 8am-5pm
 - (a) Plan is to develop the US position on DIS 21220
 - (2) Charlie Kern is the current ASHRAE representative for the US TAG vote
 - (a) Vote at TC 2.4 for approval of Charlie Kern as the ASHRAE US TAG representative
 - (b) Anyone who wants to be on the mailing list – see Charlie Kern
 - (3) Should set up a group to develop an interpretive table (new MERV table) for the ISO standard? ASHRAE 52.2 has established a TG and we will leave it there for now.
- j) ISO TC 23 – Environmental Air quality for Agricultural Cabs – Paolo Tronville**
 - i) Waiting on CEN TC 144 Standard on Agricultural Tractors and Self Propelled Machinery Protection Against Hazardous Substances Part 2: Air Purifying Devices
- k) NAFA – Al Veeck**
 - i) Conference in Indianapolis in September 19-21, 2007
 - ii) On 9/18 there will be a Bag-In, Bag-Out training session
 - iii) 4th edition of the NAFA Guide will be out in September
 - iv) Associate partner program has been started.
- l) SAE – Bruce McDonald**

- i) ISO TS 11155-1 Cabin Air Filter
 - (1) Fractional efficiency round robin did not work very well due to neutralization or lack there of.
- ii) ISO CD 19713 – Engine Inlet Filters
 - (1) Push to increase size up to 30-40 m in size

- 4) Old Business
- 5) New Business

(Attachments are with the paper version)

Respectfully submitted

Don Thornburg

TC 2.4 Subcommittee Chair

June 25, 2007 (Revised for typos at TC 2.4 Main meeting, June 26, 2007)

5. Program Subcommittee Report..... Charlie Seyffer

- The ASHRAE Programs Committee is getting very aggressive about getting Program materials in for review on time. This is all being driven by the electronic demands. Starting with New York Conference:
 - Final draft of presentation must be to Programs no later than 24 hours prior to session. If it isn't, the presenter will not be allowed to speak.
 - Note that, for Forums, you can bring a memory stick and upload your own slides.
 - Draft of PowerPoint presentations must be in no less than 2 weeks prior to Conference start. If this doesn't happen, the TC loses its Priority #1 session at next Conference.
 - Also, sign-off on DVD copyrights is no longer optional.

Derald Welles (Voting Member) arrived at 5:15. There are now 14 Voting Members present and 4 absent.

- Discussion regarding the penalty associated with missing deadlines. This harms the TC for misbehavior by people (that may not even be members of ASHRAE). Why not penalize the speaker?
 - Motion by Jeff Siegel to protest to Programs Committee about the penalty attributed to the TC for any speaker missing the upload deadline. Second by Peter Shipp.
 - Approved 12-0-2-4-14-CV
- Charlie Seyffer will draft a letter for Charlie Kern to send to Programs Committee.
- Discussion regarding the lack of appreciation for Co-Sponsorship by Programs Committee. It should be weighted more heavily, but that seems to get lost.

Motion to approve the Program Subcommittee Report, by Bruce McDonald and 2nd by Al Veeck.

Vote to approve 14-0-0-4-18-CV

ASHRAE 2.4 Program Committee Minutes – June 26, 2007 – Long Beach, CA
Called to Order – 1 PM

Attendees	Chris Ahlstrom
Charlie Seyffer	Barney Burroughs
Kyung-Ju Choi	Zied Driss
David Matier	David Chojnowski
Christine Sun	Paul Nigro
Derek Kang	Matt Middlebrooks
Nathanial Nance	Mark Renn
Len Duello	Michael Corbett
Paolo Tronville	Chris Muller

Reviewed previous program sub-committee placements for Long Beach, 2 programs
 Thanked ASHRAE for new Sunday time slot (as opposed to Wednesday)
 Reviewed ASHRAE Guidelines for program submission, types of offerings and resulting scheduling priorities by ASHRAE
 Reviewed importance of matching ASHRAE themes to increase offering acceptance
 Reviewed due dates
 Continued to program suggestions, discussion, voting and ranking of offerings
 Offerings to Program Committee included (Offering Champion):

1. Filter Bypass. Seminar (Doug Kosar)
2. Should Air Filter Standards be Global? Forum (Paulo Tronville)
3. Can Air Filters Simulate Outside Air? Seminar (Seyffer)
4. IAQ Procedure and LEED, Complimentary or Contrary. Seminar (open)

Transactions
 Can Air Filters Simulate Clean Outside Air (Seyffer, Jan '08)
 Filtration & IAQ in Transportation (Tronville, Jun '07)

6. Webmaster Report.....Erik Kuiper

7. Handbook Subcommittee Report..... Chuck Schroeter (absent, so no report)

- It was noted that the Handbook Subcommittee meeting (jointly for 2.3 & 2.4) is scheduled at the same time as the TC 2.4 Standards Subcommittee meeting.
 - The Chairs of these meetings need to find a way to reconcile this.
- Monroe Britt – Chapter 24 of Applications Handbook refers to Dust Spot throughout. Since we are trying to drop Standard 52.1, we need to work diligently to remove these and replace by MERV.
 - Marilyn Listvan and Al Veeck will try to contact Chuck to see what can be done.
 - Volunteers to help Chuck or take the lead if Chuck can't do it – Monroe Britt, Charlie Seyffer & Bob Witt.
 - Charlie Kern will coordinate with everyone.
- Gemma Kerr – Fundamentals Handbook Chapter 12 is being heavily updated by TC 2.3. It looks like there are some updates needed regarding particulate in that section.
 - Bob Burkhead, Monroe Britt, Karin Foarde and Peter Shipp agreed to help with this.

8. Publications Report..... Marilyn Listvan

- Scanning of IAQ proceedings is almost complete. Deadline is looming.

Publications Report (Marilyn Listvan, Chair, reporting)

The joint TC 2.03 and 2.04 Publications Meeting was held on June 25, 2007 in Long Beach, CA and had 7 members present. (emails at the end)

- **IAQ Proceedings CD:** ASHRAE publications is expecting our document available for the IAQ 2007 conference (market) so scan need to be COMPLETE by Feb 07 to give to Special Pubs. The remaining efforts include:

1.	'88 –	Engineering Solutions to Indoor Air Problems (small red)	<u>---ML has done</u>
2.	'96 –	Paths to Better Building Environments (burgundy)	<u>--- Jim Moulton/ ML (~ 1/3 done) C. Seyffer to finish</u>
3.	'97(?) –	Design, Construction & Operation of Healthy Buildings; Solutions to Global	<u>--- Scott Hanson ??</u>

C. Seyffer (not started!!)

******JULY 20, 07 deadline for scanned files back to Marilyn so she can bookmark, etc.******

Action item : Detailed scanning instructions to all: PDF format, Scan from within Acrobat (open New.....). They need to be scanned with optical character recognition OCR (with 600 dpi) use Acrobat 7.0 OCR settings. We can use bookmarks to identify papers. ASHRAE wants each paper a separate file, then bookmarks

***Action Item: Marilyn: finished/repared scans DUE to ASHRAE on 8/15 to make IAQ deadline*

Article topics and Authors were asked for (continued from past meetings) :

- **Published 1/07 in Journal!:** Paolo Tronville and Dick Rivers have refined an article on International standards.
- D. Tompkins – There were two Symposium papers (Denver) from RP- 1139 (done)
- Fyi: Several ASHRAE News releases relevant to 2.3 & 2.4 have been sent out lately.....
ASHRAE news releases. (Contact: Jodi Dunlop Phone: 678-539-1140)
 - Action item for 62.1 Press release: perhaps wait for Press Release after public review period.**ASHRAE news releases.** “Who is MERV?” Al Veeck provided information Marilyn & Jim Hanley & Eric Kuiper will help review information. (*ML note...got this info from AV, status??*)
Action Item for Marilyn:—next possible joint News release: Who is MERV anyway??
- K. Foarde will attempt to convert an ARTI report into an ASHRAE Journal article on UV light effects
 - Action: **(Karin/Doug have draft done, submitting 7/07?)**
- G. Kerr (1) may produce a second (and third) manuscript for ASHRAE TRANSACTIONS based on work for RP-961, (Contaminants, and Barrier effects) and
- Gemma (2) may work on an ASHRAE (IAQ Applications)Journal article on “How to investigate Odor Problems in Real Buildings.”
- Art Hallstrom in 2/05 mentioned the need for article(s) on impact of 90.1 on filtration selection – filter drop issues, dirty filters. (~~KJ was to work with Art.~~) *** Tom Justice interested. (?)
 - Charlie Seyffer from Camfil Farr to work on a filter pressure drop article. (from prefilter talk), Zied Driss to help, (and / or Don Thornburg, Mike Korbat??)
- Nick Agopian & Zied Driss (~~KJ Choi and Charlie Seyffer (Camfil Farr)~~) – HVAC overview: Where’s the filter? Residential vs. commercial. Used to rooftop units ... how many ...where to put it? (before the coil). Art Hallstrom needs to provide KJ with some info from his company.
 - Action Item to NA/ZD for the HVAC overview outline before ~~August 15th 2005~~ (revised to7/07).
 - Action Item to Marilyn to contact NA/ZD for the HVAC overview before ~~August 15th 2005~~(also to7/07).
- (Continued from ~ 1/06) there was extended discussion on: Are there ISO standards for filtration? (ISO TC 142 ... Met in 1986): Paolo Tronville gave some background. The ISO committee is re-activated. The committee will be working on standard for general ventilation, standard on HEPA and ULPA filters as well as Gas Phase and gas turbine intake filters and electrostatic filters.
 - Action: Phil Winters keep notes on working with the ISO process and write an article on that experience. (next ISO mtg is 6/07checked with Phil W. on his progress.....he will write an article on the ISO “process / experience”....or “what not to do”)
- Paulo will put together a small summary for the ISO standard (ISO TC 142....?). Maybe we can put something into Insights. **Note from ML: GPC 27P wants this ISO info as reference material**
- Action: “Use of Filtration in Process Applications.” Nick Agopian has info for two applications (Outdoor air for Semiconductors; Pulp & paper). *Nick is moving forward with a P&P field studies paper –Cu coupons (corrosion measures) are in the lab for analysis now .*
- Need status: Jim Hanley has a paper drafted on 52.2 round robin (tech paper). **Waiting for a Symposium slot.
 - *** (Action for 2.4 Program!) Action Item: See if there is an interest in Jim H. (**and/or Jim Kubokawa as PMC chair?**) to prepare a paper on this for Insights or Journal. Jim H. does have an executive summary already prepared. This executive summary can be used for ASHRAE Insights or for the Journal.

** Action for 2.4 Program! 52.2 Round Robin results waiting for a Symposium slot.***
- MVOC Res. Project article. (Elliot Horner, AQS to write..status? – KF says **unknown status**)
- Energy Conservation using IAQ procedure article (IAQ in Schools issue?) received several detailed/ critical comments back to Fred Turner – possible response needed (Chris Muller/ Brad Stanley will do...talks were given in Long Beach.....paper status??)
 - Jerry Lampin’s talk on San Antonio schools 6/07 should be written up (with emphasis on specifics of HOW they achieved the improvements!! – **Action** Chris Muller / Brad Stanley (?)in the ASHRAE Journal.
 - Examples of using an online calculator for IAQ method.? Mark Stutman/Charlie Seyffer (out to 6/08)

- FTC needs to crack down on false claims by filter devices – should this be a FORUM? seminar? Action: Would Jeff Seigel &/or Richard Corsi do an article?) note Calif. has legated twice the “snake Ions” vendor(s).
- 52.1 “*how/ if to retire it*” was discussed: committee wants it to go away...so article not needed.
- Emerging Technologies papers: PCO: Catherine J.(/ Dean T.) has an abstract for a paper for PCO applications. This information is to be shared with Marilyn to help along.
- Emerging Technologies papers: PCO: Jeff Roseberry-- a paper for PCO applications, based on Quebec talk?
- Emerging Technologies papers: Plasma: Ron D.____(?) a paper for Plasma applications.
- Indoor/Outdoor Ultrafines – Shelly Miller, et. al. 2.4’s RP-_____? Transactions paper.
- How to apply the IAQ method? Action: Barney Burroughs 15-building project. And/or Chris Muller/Brad Stanley???

A request for volunteer reviewers of articles was made so that good information is provided by the TC.

Name

- Marilyn Listvan
- Nick Agopian
- Gemma Kerr
- Mark Stutman
- Zied Driss
- Daniel Osorno
- Catherine Jacquiod

TC Liaison Work:

- Electronic Communications Committee (ECC; Marilyn Listvan reporting) – Marilyn Listvan is a member of the Electronic Communications Committee (ECC). The ECC is making efforts to consider having the ASHRAE meeting become *paperless* meetings. Software is available on the ASHRAE website to conduct a paperless meeting. You can create a host server on someone’s PC and we can freely share documents between the chair and the committee members. The chair will need to buy a \$30 hub and Dean is willing to buy the hub for the next meetings. The software can be uploaded from ASHRAE’s website.

9. Old Business – none discussed

10. New Business

- Charlie Kern raised the following topics:
 - Letter of appreciation is available from ASHRAE to your employer. See Charlie Kern for details.
 - ASHRAE HQ “Living Lab” is available for tours.
- Phil Winters announced that there will be a US TAG meeting to ISO/TC142 tomorrow (6/27/07) at 8:00am in LBCC Room 103A. Everyone is welcome to attend the meeting
- Bob Burkhead took a moment to acknowledge Charlie Kern’s contribution as out-going Chair of TC 2.4. Applause all around.

11. Agenda suggestions for the Winter 2008 Meeting in New York City, NY

None

12. Adjournment at 6:00

Respectively submitted
 Phil Winters
 TC 2.4 Secretary
 June 26, 2007