

ASHRAE MEETING MINUTES – Chicago, IL

TC 2.3 - Gaseous Air Contaminants/Removal Equipment TC Meeting

Tuesday - January 27, 2009

13:00 - 15:30

Palmer House Hilton – Hancock Meeting Room (6th Floor)

NOTICE:

These DRAFT minutes have not been approved and are not the official, approved record until approved by this council/committee (TC 2.03).

- The meeting was called to order at 1:21 pm by Chairman Dean Tompkins. The meeting attendee list is as follows:

Name	Email address
(Voting Members – 10)	
Mark Stutman	stutmanm@camfilfarr.com
Gemma Kerr	gkashrae@magma.ca
Paolo Tronville (International Member)	paolo.tronville@polito.it
Dean Tompkins	dtompki@wisc.edu
Kyung-Ju Choi	kchoi@aafintl.com
William Lull	ashrae@garrisonlull.com
Chris Muller	cmuller@purafil.com
Nick Agopian	nagopian@dectron.com
Matt Middlebrooks	mmiddlebrooks@filtrationgroup.com
Barney Burroughs	heburroughs@mindspring.com
(Corresponding Members & Visitors)- 21	
Kathleen Owen	mko@rti.org
Marilyn Listvan	mlistvan@yahoo.com
Dave Chojnowski	davidc@uic.edu
Catherine Jacquiod	catherine.jacquiod@saint-gobain.com
Mick Flom	mflom@lmstechnology.com
Tom Kelly	Thomas.j.kelly@carrier.utc.com
Monroe Britt	monroebritt@bellsouth.net
Rakesh Goel	rakesh.goel@lennoxind.com
Brian Hafendorfer	bhafendorfer@trane.com
Dave Schaaf	das42@meadwestvaco.com
Eric Chen	echen@ahrinet.org

Charles Wilkin	cbw200@comcast.net
Charlene Bayer	Charlene.bayer@gtri.gatech.edu
Kevin Cogley	Kevin.cogley@navy.mil
Terry Wytko	twytko@yahoo.com
Deepak Pahwa	dpahwa@pahwa.com
Chang-Seo Lee	cslee@circul-aire.com
W. Chen	wchen13@syr.edu
Brad Stanley	bstanley@aafintl.com
Scott Hanson	shanson@woodmaninc.com
Phil Winters	pwinters@filtrationgroup.com

- Liaisons – Chris Muller 62 & 145, Bill Lull 8.12 & GPC 27P;
- Minutes Salt Lake City
 - Any comments:
 - change e-mail address for Catherine Jacquiod
- Review of Roster Update
 - Doug Van Osdell has retired
 - Bill Leedy should be deleted
 - Chris Muller, Jeff Roseberry, HE Burroughs, Marilyn Listvan are all now voting members
 - Comments: Kathleen Owen is replacing Doug Van Osdell
 - Matt Middlebrooks will roll on as Vice Chair
 - Secretary Volunteers: Brad Stanley, Wen Hao Chen
 - *** See Nick and Dean Tompkins spreadsheet.
 - 10 Voting Members present, 3 are absent
 - **Chris Muller made a motion to approve the minutes as amended. Motion 2nded by Barney Burroughs**
 - **Voting Results: 9-0-1-CV**
 - **Abstention by Nick Agopian, was not present at Salt Lake City**
- Immediately after the June 2009 ASHRAE Meeting, the Management of TC 2.3 will be the following
 - Dean Tompkins will roll off (as Chair) and become a Corresponding Member
 - Nick Agopian will become TC 2.3 Chair
 - Matt Middlebrooks will become Vice Chair
 - Brad Stanley will become Secretary
 - Mark Stutman will become the Membership Chair
 - Matt Middlebrooks will become the Planning Chair
 - Wen Hao Chen will become Publications Chair
 - Barney Burroughs will become the Professional Development Coordinator
 - Paolo Tronville will stay in his current position
 - Gemma Kerr will continue as Handbook Chair
 - Karin Foarde will continue as Research Subcommittee Chair

- Individuals to become Corresponding Members include:
 - Nicole Tebano – Fiberweb
 - Gary Luepke - Trane
 - Terry Wytko - Dept. of Defense
 - Wane Baker – IAQA
 - Deepak Pahwa – Bry-Air
 - Wen Hoa Chen – Syracuse University
 - Chang-Seo Lee – Circul-Aire Corp.

Subcommittee Reports

Research – Kathleen Owens (Reporting for Karin Foarde, Chair)

- Matt Middlebrooks requested help with Publications.
- Report from Research Liaison identified desire for large projects jointly supported by TC's.
- Presentation for RP-1457 was provided. Dean Tompkins (UW-Madison) led research activity. Ramsey Kropp, graduate student, provided the presentation.
- Gemma Kerr updated on past report project which had issues to address. RP-1302 Comparison of Gas Phase Air Filtration Equipment Lab Tests to Field Experience.
- Jensen Zhang –Environmental Health Committee is cosponsoring RTAR for Evaluation of Ozone Filters (was accepted) - 1579 Testing and Evaluation of Ozone Filters for Improving IAQ.

Program – Dean Tompkins (Chair, reporting)

- Results presented by Dean Tompkins
- Barney Burroughs chairing Seminar 58 – Achieving Sustainability and Energy Reduction through the IAQ Procedure: Case Studies of Success (Cosponsor 2.4) here in Chicago.
- Voted on proposals for Louisville – Theme: Optimal Air Quality Management
 - 13 Votes – Forum entitled “To LEED or not to LEED”
 - 12 Votes – Seminar entitled “Sustainable IAQ Design: Control for Ozone”
 - 8 Votes – Forum entitled “Should Gas Phase filtration be part of Typical Use of Std 62?”
 - **Gemma Kerr made the motion to approve the program as stated above. Marilyn Listvan 2nded the motion.**
 - **Voting Results: 10-0-0, CV**
- Program submittals are due Feb 6 (Friday)

Handbook – Gemma Kerr (Chair, reporting)

- 2.3 Chapters summarized
- Ch. 12 and Ch. 13 submitted last year after June Meeting, will appear in 2009 handbook
- Investigated if TC 2.1 would be interested in taking over Ch. 13 (defn's of odors, physiology related items; little of TC 2.3 technical side there). TC 2.1 Chair is receptive to the idea, TC 2.3 Chair thinks there is enough expertise within TC 2.1. TC 2.1 meeting will vote to accept the responsibility of the chapter authoring.
- Gemma Kerr made motion that TC 2.3 transfer to TC 2.1 its responsibility role as cognizant authority for authoring Handbook Ch. 13 (Odors); Bill Lull 2nd the motion.

- Voting Results: 10-0-0, CV
- TC 2.3 will need to review some sections of Ch. 13 that fit into TC 2.3's expertise and coordinate with TC 2.1 on those sections.
- Discussed Applications Handbook Ch. 45. Identified and planned the authoring work; revision due summer 2010.

Standards – Paolo Tronville (Chair, reporting)

- Met 1/26 at 6 PM
- Update on GPC 27P was included at the meeting – revision to scope to be specific to Commercial Buildings
- 145.1 has been published
- 145.2 Met on 1/25 (Sunday) made some decisions about the testing specifics, but still have some discussion needed. Chris Muller mentioned a standard by CEN that discusses Field Testing of Air Cleaners.
 - Discussion – Bill Lull: 145.2 is heading in a direction that does not correlate to Std 62.1 referenced in Section 4. If 145.2 does not approach these gases, then another standard is needed. Bill suggests that too many tests will be required with 145.2 in its current direction. This deals directly with the report which comes from 145.2.
 - Matt Middlebrooks: No gases have been discussed at this time for 145.2.
 - Paolo Tronville - Suggested that 145.2 does not list 62 in its scope.
 - Gemma Kerr - Recommends having a 145.2 (IAQ) test.
 - Chris Muller - A list of appropriate gases for different applications have been discussed.
 - Barney Burroughs – Related to the IAQ Procedure, 145.2 will be used as the basis.
 - Bill Lull will propose the creation of a new standard that addresses all gases for an IAQ test or Museum test, if 145.2 does not approach this topic. As per Section 4 of Std 62.1
- 145.3 - needs a chair since Bob Hendry is not attending.
- 62.1 - ozone cleaning only impacts parts of California at this time. Target (stores) did a presentation on saving of energy with the IAQ Procedure at large portion of their stores.
- US Advisory Panel to ISO WG 8 met at this conference (Matt Middlebrooks)
- TC 2.4 Discussed investigating Life Cycle Cost before the 2.3 Standards meeting; Should TC 2.3 take a step toward evaluating Life Cycle Cost of gas phase equipment.
 - Many discussed problems with this topic. Brad Stanley gave quick description of what is done in the industry.
- Standard Method for testing Ozone emission of in-duct air cleaners
 - Jeff Siegel - UL has an ozone emission test for portable air cleaners
 - Purpose – have a standard test method for in duct devices to measure ozone production of all in duct air cleaners
 - Title – MOT for ozone emission from in-duct electrically powered air cleaners
 - Problems with measuring Ozone production with high airflows across devices
 - Goal is to determine a generation rate of ozone when considering all byproducts

- Committee would need to have manufacturers of such, researchers, gas phase air cleaner manufacturer
- Jeff Siegel may be the champion for such a standard
- Jeff Siegel to write-up a standard purpose statement that brings in all air cleaning equipment (UV, electronic air cleaner, etc.).
- Paolo Tronville made motion to consider this standard to ASHRAE. Bill Lull 2nded the motion.
- Voting Results: 10-0-0, CV
- Paolo Tronville asks about providing a methodology to rate filters for Life Cycle Costs; Does TC 2.3 support this?
 - Questions related to loading, life cycle costing (cradle to cradle)
 - **Nick Agopian to motion that TC 2.3 get involved in the efforts to produce a standard/guideline related to Life Cycle Costs of filtration and air cleaning with TC 2.4. Gemma Kerr 2nded the motion.**
 - **Voting Results: 10-0-0, CV**

Publications – Marilyn Listvan (Chair, reporting)

- New ASHRAE Journal article type called Short Topics (allows shorter articles)
- Call to write and publish the work done in TC 2.4
- Scanning complete for older articles that were being compiled.
- Nick Agopian will be writing a paper on before and after monitoring with Coupon.
- Healthy Buildings in Syracuse has abstracts due Feb 6.
- Please Send Marilyn Listvan articles and references for papers written by committee members – articles will be posted on TC website.
- PCO paper is coming off the list – Paper 12.
- Certification Process pending for next meeting related to sustainability.

Planning – Nick Agopian (Chair, reporting)

- Invitation to future meetings – breakfast served.
- Planning in advance for leadership – please get in touch with Nick Agopian.
- Seminar potentials – 15 & 45 minute versions
 - SPC 145 and other workings of TC 2.3
 - Target local chapter meetings
- Discussed:
 - Abstracts of handbook chapters that TC 2.3 oversees.
 - Tutorial of gas phase filtration paper & 45 minute seminar (people know about gas phase filtration but do not understand it, they need to understand the fundamentals).
 - There are discussions to expand Handbook with more attractive information (pictorial). TC 2.3 can get such information on the website as a first step.
 - Accountability is being increased for work assignments by leadership.
 - Some topics were discussed for needed tutorials, papers, etc.
 - MBO - Management By Objective: Dean Tompkins is developing a spreadsheet for this and distribute to all members.
 - Marilyn Listvan – SLC meeting minutes hardcopy did not include all pages. The softcopy was complete.

Website – Eric (by e-mail)

- Bill Lull – back up all information on website (backup server)
- All personal information must be removed from website.
- Remind Eric above action

Liaison Reports

Gemma Kerr Liaison to 4.10

- Have data on emissions monitoring
- Performed tests of small chamber versus large chambers emission tests. This will appear on transactions in Louisville

Bill Lull Liaison to 8.12

- 8.12 unanimously voted to co-sponsor a research project continuing the work of RP 475.

Chris Muller Liaison to 62.1

- Only item related to TC 2.3 is on ozone filtration.
- Committee wants to have that as a requirement but argues that there is no standard method to show performance of the filter.

Section Liaison - Chuck Wilkins

- Dean Tompkins to send new roster.
- Notes that TC 2.3 wants changes in scope. Dean Tompkins to send.

New Business

Marylin Listvan – invitation to particle party.
No other new business

Agenda suggestions for Summer Meeting in Louisville, KY

- Information is available – on the ASHRAE website

**Gemma Kerr to motion adjourn. Nick Agopian 2nded the motion.
Voting Results: 10-0-0,CV**