



AGENDA - ASHRAE MEETING – St. Louis
TC 2.3 - Gaseous Air Contaminants/Removal Equipment
TC Meeting

Tuesday (6/28/16), 1:00 pm - 3:30 pm

Meeting membership attendee list is as follows:

1. Last Name	Name	Member Status	Position	Present
Total Voting Members = 11 out of 13 in attendance				
Bayer	Dr. Charlene W. Bayer, PhD	CM	TC Chair	P
Choi	Dr. Kyung-Ju Choi, PhD	VM	Program Chair	P
Freeman	Mr. Peter Freeman	VM	Member	P
Hingorani	Mr. Sanjeev Hingorani	VM	Secretary	P
Kerr	Dr. Caroline M. Kerr, PhD	VM	Member	P
Lau	Dr. Josephine Lau, PhD	VM-NQ	Member	P
Lee	Dr. Chang-Seo Lee, PhD	VM-NQ	Member	-
Levasseur	Ms. Paula Levasseur	VM	Vice Ch/ Webmaster	P
Listvan	Dr. Marilyn Listvan	VM	Program co-chair	P
Mathur	Mr. Ashish Mathur	VM	Member	P
Muller	Mr. Christopher Muller	VM	Member	P
Owen	Ms. Kathleen Owen	VM	Research Chair	P
Schaaf	Mr. David A Schaaf, Jr	VM	Program Co-Chair	-
Middlebrooks	Mr. Matt Middlebrooks	NV	Membership Chair	-
Tronville	Dr. Paolo M. Tronville, PhD	NV	Standards Chair	-

Summary of Motions

#	Motion	Vote
1	Motion to approve TC2.3 minutes from Orlando, Paula Levasseur 1 st , Peter Freeman 2 nd .	10-0-0 -11 CNV
2	Motion to approve sending Chapter 11be sent to ASHRAE for publication. Dr. Caroline M. Kerr, PhD 1 st , Marilyn Listvan 2 nd	10-0-0- 11 CNV
3	Motion to cosponsor a seminar with 62.1 on Case Studies using IAQ on leed projects. Dr. Kyung-Ju Choi, PhD 1 st , Christopher Muller 2 nd	10-0-0-11 CNV
4	Motion to approve WS1720 validation of gas phase performance test methods Kathleen Owen 1 st Dr. Caroline M. Kerr, PhD 2 nd	11-0-0-11 CV
5	Motion to send the SVOC RTAR to RAC Kathleen Owen 1 st Dr. Caroline M. Kerr, PhD 2 nd	11-0-0-11 CV

Summary of Action Items

#	Action Item	Owner	Meeting Initiated	Status
1	Publications Subcommittee Meeting space and time.	Charlene Bayer	Atlanta	Completed
4	Populate TC Research Roadmap to generate research for full scope of TC 2.3	Paula Levasseur	St. Louis	Open
5	Workshop on performance rating system summary to be sent out.	Ashish Mathur	Atlanta	Open
9	Work with TC 5.10 to draft RTAR on ozone in cooking exhaust.	Brian Krafthefer, Marwa Zaatari	Atlanta	Hold
11	Collection of TC member bibliography papers for website posting	Marilyn Listvan	Atlanta	Ongoing
15	Development of a course on gas phase filtration to be part of ASHRAE supported classes and sent to chapters. Send the TC 2.4 presentation as an example	Brian Krafthefer	Atlanta	Open
16	Development of a translation into research webinar on gas phase filtrations	Ashish Mathur, KJ Choi	Atlanta	Open
18	Locate TC 2.3 slide for ASHRAE	Brian Krafthefer	Atlanta	Completed
19	Send email to all YEA members attending TC2.3 asking what their interest is and what can TC 2.3 do for them.	Paula Levasseur	Orlando	Completed
19	Send RTAR presentation done by Brian to Paula for posting on website	Brian Krafthefer Paula Levasseur	Orlando	Completed
20	Paolo has asked to change standards time slot to publication time slot on Monday 3-4 or at 2:15 on Monday	Charlene Bayer	Orlando	Completed

1. Meeting was called to order by Chair @ 1:03pm
 - a. *ASHRAE Code of Ethics*- all present were advised of the ASHRAE code of ethics.
 - i. The ASHRAE Code of Ethics is to be adhered to by those doing ASHRAE business whether or not they are an ASHRAE member. The Code of Ethics can be reviewed at the below link.
 - ii. <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>
 - b. Guests and members introduced themselves and their affiliation.
 - c. It was determined that there was a Quorum with 11 of 13 voting members present.

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- i. Voting Membership for this meeting: Charlene Bayer, Paula Levasseur, KJ Choi, Kathleen Owen, Josephine Lau (NQ), Chang Seo Lee (NQ), Peter Freeman, Sanjeev Hingorani, Gemma Kerr, Marilyn Listvan, Ashish Mathur, Chris Muller, and Dave Schaaf
 - 1. 13 Voting Members
 - 2. > ½ Voting Members Present (7) (Yes/No)yes 11
 - d. *Reporting from ASHRAE liaisons.* Pawel Wargocki arrived at 1:14 We were advised that there are 3 awards that RAC is giving – New Investigator Award for \$125,000, A grant for students working on projects of interest to ASHRAE- \$10,000 in spring of 2017, Homas Adams award for the student who performs outstandingly \$ 5,000. RAC is looking for volunteers – contact Pawel Wargocki or RAC Chair if you are interested in joining RAC.

e. *Chair's Report*

There are 2 new MTG's impact of ASHRAE standards and technology on energy and performance.

Occupant behavior in building: Air change rates: TC 2.3 needs to decide if we want to be a part of either of them.

ASHRAE will allow white papers on the website.

There is a new template you must use if you are going to do presentations for chapters. It can be found on the ASHRAE website.

ASHRAE has a new tool called "basecamp" you can request one be set up for the TC to allow everyone to see and view documents in progress.

ASHRAE would like some subcommittees to hold their meetings over the web. This needs to be reviewed further and discussed.

ASHRAE wants reviewers, please advise if you are interested you may contact ASHRAE directly or Charlene Bayer can forward your name.

- 2. Draft minutes from Orlando were reviewed . Paula L motion to accept Peter Freeman 2nd , motion passed 10-0-0 CNV

3 Review of Action Items from Last Meeting

- a. Publications Subcommittee Meeting space and time – Brian Krafthefer (Charlene Bayer handled)- completed
- b. Populate the TC Research Roadmap with ideas on how to generate research for full scope of TC2.3 – Planning Committee, Paula Levasseur will begin and present ideas in Las Vegas
- c. Working with TC5.10 to draft RTAR on ozone in cooking exhaust – Marwa Zaatari and Brian Krafthefer- This is on hold pending Brian's return
- d. Collection of TC member's bibliography papers – Marilyn Listvan in process. Several have been turned in.
- e. Development of course(s) on gas phase filtration to be part of ASHRAE supported classes and sent to chapters. Send out the TC2.4 presentation that currently is sent to chapters – Brian Krafthefer none from TC 2.4 – on hold
- f. Send email to all YEA members attending TC2.3 asking them their interests and how TC2.3 can help them Paula Completed
- g. Performance rating system for gas phase filters – Ashish Mathur to review

3. Subcommittee Reports

- a. *Handbook - Subcommittee Chair – Ashish Mathur*

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- i. Gemma reported on the handbook meeting. Chapter 11 is now complete
 - 1. Gemma motioned for the TC to approve the handbook subcommittee recommendation that Chapter 11 be sent to AHSRAE for publication. Marilyn 2nd. 10-0-0 CNV
 - b. *Membership - Subcommittee Chair -- Matt Middlebrooks*
 - i. Brian Krafthefer has been moved to non-voting; we have 65 corresponding members – and 12 PCM and 13 voting members. Attendance is kept for each meeting. 4 members rotate off after this meeting– David Schaaf, Chang Seo-Lee, Josephine Lau ,Gemma Kerr, the 4 members rotating on are: Nick Agopian, Marwa Zaatari, Dan Haas, and Scott Sherwood
 - c. *Planning - Subcommittee Chair – Paula Levasseur*

Paula took over this meeting on short notice. All action items were reviewed. All agreed the powerpoint started by Brian Krafthefer showing a 10 year plan corresponding to AHSRAE long term plan was a good format. Paula will be populating that presentation for review in Las Vegas
 - d. *Professional Development Coordinator -- Barney Burroughs- no report*
 - e. *Program - Subcommittee Chair -- KJ Choi-*
 - 1. Nothing accepted for St. Louis – they will be resubmitted for Las Vegas and beyond
 - 2. 62.1 wants us to cosponsor a seminar. KJ motions that 2.3 cosponsor a seminar on Case Studies using IAQP on leed projects. There was a friendly amendment to change IAQP to IAQ case studies. Chris Muller 2nd.
 - ii. Motion passed 10-0-0-CNV
 - f. *Publications - Subcommittee Chair -- Marilyn Listvan*
 - i. Send papers and reference material so they can be made available on the website.
 - ii. TC9.9 – Chris Muller can be the liason as he will become a voting member.
 - iii. There is also a residential IAQ guide (EHC) is listed
 - iv. IAQ conference happens in September 12-14
 - g. *Research - Subcommittee Chair -- Kathleen Owen*
 - i. ASHRAE wishes more applied research. There will be an updated research manual with new deadlines and dates. There is a new database online of former research projects on the AHSRAE website. A new RTAR will be send out for a letter ballet.
 - 1. Vote on WS1720 –
 - 2. Kathleen Owen makes a motion on WS 1720 validation of gas phase performance test methods Gemma 2nd 11-0-0-CV
 - 3. Katheen Owen –SVOC motion to accept the RTAR and send to RAC Gemma 2nd
 - a. 11-0-0-CV
 - 4 Nick Agopian RTAR 1780 with 9.10 and 5.5 – they received conditional approval must have a minimum of 2 people from TC2.3 on WS. Confirm if there is any literature to reference- Kathleen and Gemma and Nick to work on the WS. There is concern about communication with 9.10 – deadline for August 15th
Chris Muller gave us an and update on 1755. The contract was awarded to Jenson Zhang at Syracuse University. It is expected to start on July 15th. Chris will keep us updated.
 - h. *Standards - Subcommittee Chair -- Paolo Tronville*
 - i. We met in our new time slot – 1 hour meeting. No specific updates. GPC 27 likely to be published later this year. A request to start a new MTG Ed Light on VOC mixtures as the

- information out there is very old. Look at alternative ways to look at VOC mixtures. This would be practical for the IAQP. He will provide information for the committee to review.
- ii. Marwa Zaatari stated that TRGIAQP is not looking at mixtures. 62.1-2016 does state CEC of concerns and mixtures
 - iii. Charlene will check to see how to start a new MTG – Ed he has the form and has started the process.
 - iv. New standard time slight conflicts with TC5.4
- i. A separate discussion on having web meetings was held – we will try a couple to see if we can be productive and get attendance at these meetings.
 - j. *Website - Subcommittee Chair -- Paula Levasseur*
Website is up to date. Two new presentations have been posted. Will get some of the publication references on website before the next meeting.

Matt Middlebrooks reported on 145.1 and 145.2. Both are in continuous maintenance. There is discussion on expanded 145.2 to reactive air cleaners. There is an RTAR being put together to do a literature search on all the different technologies and what might be required. Another group is looking at what changes might have to take place with the duct.

SSPC145 will not address portable air cleaners. ISO WG11 addressing these but it is not far along. Gemma is an expert on this group there is another meeting in September and we may get some information after that. She will try to get information to us in Las Vegas. Several documents were used for this preliminary standard. One was the Canadian method and there are European standards, along with China and Japan. If TC2.3 were to vote for a standard it would not just be for a stand alone air cleaners it would be a chamber test for other products. We will wait until Las Vegas to discuss action.

4. Report from TC liaisons.

Barney Burroughs mentioned that TG2 Building security is a committee that is struggling. It may best be served by changing to an MTG since it does address many different issues.

There is someone doing a forum in Las Vegas on GPC29.

Charlene – 62.1 has a new subcommittee IAQ which is looking to write a guide.

Nick 62.2 – the chair complained that high rise residential applications are neglected. They are trying to put some technology to the guide. It has been passed that if you add a MERV 6 or 8 filters you can reduce your outside air by 20%. It went out for public review and it passed without comments. We need to be more aware of what 62.2 is doing regarding IAQ. They are discussing unvented combustion devices indoors. The motivation to work on residential is part of the strategic plan and this is being pushed by the ASHRAE management.

5. New Business – No new business

6. Agenda suggestions for the Winter Meeting in Las Vegas:

- i. None

7. Motion to adjourn by Paula Levasseur Ashish M 2nd .