

AGENDA

**TC 2.3 - Gaseous Contaminants/Removal Equipment
Research Subcommittee Meeting
Monday, June, 24th 2024, 4:30PM – 6:30 EST
J W Marriott Indy, White River IJ (1)**

- 1 Meeting call to order at 4:11
- 2 Introductions and Recording Attendees 5 Min
- 3 Review of Minutes from Summer Meeting: 5 min
- 4 Chair comments
- 5 RAC report (Liaison TC2.3- Chris Gray) 5-10 min
- 6 Active Projects:
 - a. RP 1869: Evaluation of Indoor Air Contaminants with respect to Development of a Revised Indoor Air Quality Procedure (IAQP) Design Compound and Design Target Lists for Standard 62.1. Champion: Gemma Kerr. WG: James Dennison, Dean Tompkins, Marwa Zaatari, Hoy Bohanon, Wayne Thomann
- 7 Work statements and RTARs
 - a. **1867-RTAR:** Development and validation of a model for assessing the corrosion risk of Datacom equipment under different pollution and thermal environmental conditions. TC 9.9
Update from Chris Muller?
 - b. **1846-RTAR:** Real Time Small sensors/ affordable: Christopher Vizcaino (will be the new champion), Brian K., Fuoad Parvin, Thad Ptak, Jeff Roseberry, Sanjeev H., Jensen Zhang, Jordan Clark. Members interested Tony Abate, Sanjeev (suggest we drop)
 - c. **1858-RTAR:** sVOCs including how SVOC emissions change with temperature - Sanjeev*, Jianshun Zhang, Kevin Kwong, Ying Xu, Brent Stephens, Chang-Seo Lee, Jim Rosenthal, Gabrielle Davis. Work statement was re-written; comments came back and need to be resolved. No work has been done but Sanjeev would like to keep it on/going: Need an update as to whether or not comments were addressed. Emailed Sanjeev for an update.
 - d. **1895-WS** Effect of particles on loading on gas filters, with possible interest in looking at other combinations of technologies in the same air cleaner (Matt, Brian, Paula, VJ). TC 2.4 and GPC 35 co-sponsored. **(Brian champion- confirm)**
WS voted on in 2.3, 2.4 letter ballot was sent out. After this meeting comments were addressed from

RAC once GPC 35 votes it will be ready for RAC. This was submitted to RAC but they have yet to respond.

- e. **1928-WS-** Combination duct and chamber test. Chrystal Jolliffe champion, Gemma, Cheng-Seo, and Joe Pessa. This is sponsored by 2.9, with 2.4 and 2.3 co-sponsors. Work statement submitted for last deadline with minor changes. Caitlin to update.

- f. **1935-RTAR** Effects of increased use of surface disinfectants and hand sanitizers on indoor air quality. Chang Seo, Kathleen, Jensen, Marilyn, Paula Submitted RTAR, it was received on August 17th. Need status from Chang-Seo it appears work statement and RAC comments are not yet completed for submission.
Last status- Email from Bill saying RTAR approved with conditions, did not receive RAC comments: Have not heard from Chang Seo

- g. **1931-RTAR** Determination of the CO₂ and Aerosol Generation and Metabolic Rates of Occupants for Selected Indoor Activities (from TC 2.1) TC 2.3 co-sponsor comments addressed and co-sponsors revoted to be sent to RAC by March 15th deadline

- h. **1913 WS** Study of the Corrosion Impact on Information Technology Equipment in Data Centers Located in Coastal Regions with High Sea Salt Concentration: TC 9.9 is the lead – TC 2.3 is cosponsor. This was submitted to RAC December 15 2023
Chris Muller contact, was approved and is now going out for bid. Chris will be on PMS. Need an update

8 Proposed RTARS and other work:

- a. **Ozone Removal Efficiency and Generation of Byproducts on VOC-Loaded Gas-Phase Air Cleaning Devices.** Menjia Tang - Champion This RTAR has been approved by TC2.3 TC2.4 will vote this meeting. Chris Grey already approved. It should be finalized and submitted to RAC after this meeting. Volunteers to work with Menjia on WS.
- b. **The Effects of Filtration and Air Cleaning on Health & Safety.** Caitlin Naske Champion. Nick Agopian, Lexuan Zhong, Kathleen, Sanjeev, Paula, Brent S.
Caitlin- No work has been done since last meeting Caitlin to update.
- c. Acceptable VOC types and concentrations for inclusion in multi contaminant test gases - **ON HOLD** Ashish to champion, Kathleen, Gemma, and Paula, Chang Seo.
 - i. Goal to modify 145.2 to include a multi gas and what it should be (Ashish). What concentrations can we do (reactions take place) and what mixes work.
 - ii. Ashish will do an initial review of literature to see what is currently available
- d. Brian- adsorption and emission of particulates in filters, Brian had done a lit search long ago with only a few, may be newer studies/ research. Caitlin willing to champion after getting the health and filtration RTAR finished.
- e. “Impact of Age on Air Cleaning Devices” Cleaning secondary products from the air- John Randtke, Marwa, Jianshun, Brian K, and Jeff Roseberry interested in helping **ON HOLD for 185.5 will need a test method**
- f. New Ideas

- i. Chris V. - PFAS is it a particle or a gas, is carbon effective in removing it in air, technology is already used in water, used in a lot of pan and cookware emerging contaminant, will give a presentation on some of the information he has on the topic
Matt M has a paper and Chris V has a presentation
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- ii. What's better in room air cleaners or in system filters? Literature search into what is out there. Where is the best place to put in filtration? Put it out as a forum with TC 2.4 move to Programs.
62.2 does not allow portable air cleaners, they will be discussing pros and cons. They aren't part of the building. Understanding the short term/ periodic benefit of these portable air cleaners.
Is there research/ data on how long portable air cleaners are used vs stop use, replace, etc.

9 Adjourn: