

Draft Agenda
TC 2.3 - Gaseous Contaminants/Removal Equipment
Research Subcommittee Meeting
Sunday, February 5th 6:00PM-8:00PM EST
Omni CNN Center Atlanta, Pine (A-South)

- 1 Meeting call to order:
- 2 Introductions and Recording Attendees 5 Min
Enter Name, affiliation, and email in Chat
- 3 Review of Minutes from Winter Virtual Meeting: 5 min
- 4 Chair comments: 5 min
- 5 RAC report (Liaison TC2.3- Bill Hutzell) 5-10 min
- 6 Active Projects:
 - a. **1720-RP Validation of gas-phase air-cleaner performance test method (Standard 145.2) by laboratory testing of commercially available filtration devices** – PMS: Gemma Kerr, Paula Levasseur, Chris Muller, Nick Agopian, Marilyn Listvan. PI: Kathleen Owen. [Final report was submitted January 24,2023. Waiting for PMS approval so TC can vote. Paper and project summary are ready to submit once report is approved by the PMS.](#)
 - b. **1838-RP Inclusion of Electronic Air Cleaners** – PMS: Kevin Kwong, Jeff Roseberry, Tony Abate, Nick Agopian, Ashish Mathur, Paula Levasseur. PI: Dean Tompkins; co-PI Kathleen Owen [Draft final report submitted to Donna Daniel in December 2022. Waiting on PMS to approve – only 2 have reviewed and approved the report. Once approved Kathleen will ask Donna what else is needed. If PMS approves it can be sent to the TC for a vote. The journal paper is prepared and ready to submit.](#)
 - c. ~~**1579-RP Testing and Evaluation of Ozone Filters for Improving IAQ** – PMS: Sanjeev Hingorani, Kevin Kwong, Matt Middlebrooks, Nick Agopian, Thad Ptak, Hoy Banohan (EHC). PI – Atila Novoselac; Jeff Siegel, Consultant. 5 Minutes~~
~~I reached out to Atila but have not received an answer as to the status of the final report.~~
 - d. **1780-RP, Test Method to Evaluate Cross-contamination of Gaseous Contaminant within Total Energy Recovery Devices**; Responsible Committee: TC 9.10 (Laboratory Systems); Co-Sponsors: TC 2.3. Nick Agopian on PMS. Awarded to University of Saskatchewan. Nick on PMS- it was awarded, moving slowly, asked for an extension
- 7 Work statements and RTARs – Updates 30 minutes
 - 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?
 - i. [A presentation is planned during the TC 9.9 meeting on Sunday June 26, the presentation will be made available](#)

1. **ACTION ITEM:** Tori will post presentation, when available on TC 2.3 basecamp. Members will review and decide if a full work statement should be written.
- b. **1869-WS:** 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. *Made the May 15th deadline and waiting to hear if it will need another review.*
- c. **1846-RTAR:** Real Time Small sensors: Brian K., Fuoad Parvin, Thad Ptak, Jeff Roseberry, Sanjeev H., Jensen Zhang, Jordan Clark. *A new champion for the project may be needed. Members interested Tony Abate, Sanjeev, Christopher Vizcaino*
 - i. *ACTION ITEM: Review TC 2.4's report on sensors*
 - ii. *Subcommittee agrees that this is an RTAR that should be pursued*
- d. **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*
- e. **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. *Letter submitted to RAC*
- f. **1928-RTAR-** Combination duct and chamber test. Chrystal Jolliffe Champion, Gemma, Kathleen, Cheng-Seo, and Joe Pessa. Ali Bahol and have recently offered to help. This is sponsored by 2.9, with 2.4 and 2.3 co-sponsors. *Work statement submitted for recent deadline*
- g. **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.
 - i. *ACTION ITEM: Paula has contacted Chang Seo and it awaiting a response.*
- h. **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

8 Proposed RTARS and other work: 30 Minutes

- a. The Effects of Filtration and Air Cleaning on Health & Safety. Caitlin Naske Champion. Nick Agopian, Lexuan Zhong, Kathleen, Sanjeev, Paula. *Add Brent S. after 2.4 Research meeting*
- b. Acceptable VOC types and concentrations for inclusion in multi contaminant test gases - **ON HOLD** Ashish to champion, Kathleen, Gemma, and Paula, Chang Seo.
 - i. *Main deliverable: investigate different combinations of gases and see which are appropriate to test together- Mixtures are representative of real world application*
 - ii. *Chris Muller has offered to send applicable research for the subcommittee to review*
 - iii. *Other committee support will be needed; 62.2 and 145.2*
- c. Venting for 3D Printers: **needs champion**, Paula, Gemma, Marwa, Dan, Joel Foster (2.9), Wayne Tomann (EHC), Marilyn, Matthew Stiegel, Courtney Stanion with Brent talking to 2.4, Dan Mason. **ON HOLD** pending finding proper lead TC, Not under the scope of 2.3.
 - i. *Needs a different TC to get involved/drive the efforts*

1. Determine if other committees are taking on 3D printing topics, talk to Brent in TC 2.4 and Bob Burkhead in TC 5.4
- d. RTAR on 62.2 unvented combustion devices (Nick brought up). They are writing RTAR on this for huge project (millions).
- e. Gases to dimers, where is the dividing line between particles and gases, nucleation. And how to remove them? Brian's idea, Gemma, Chang-Seo, Marilyn, Dean, (Marilyn) **ON HOLD** pending program interest potentially could be a seminar.
- f. Brian- off gassing of particulates in filters, Brian had done a lit search long ago with only a few, may be newer studies/ research. Caitlin, Paula, and Kathleen volunteer to help, planned to setup meeting
- g. Potential ideas may come out 1579-RP UT is interested but have yet to put anything together.
 - i. Mengjia reported out
 1. One idea, study the lifetime of ozone removal devices in buildings. Very complex and have not found a good angle on how to approach it at this time
 - a. Humidity is not very significant, but flow rate is
 - b. Particle and gas loading on the devices
 - ii. Could potentially be 2 RTAR
 - iii. Matt Middlebrooks is willing to help with the VOC and particle loaded concept
- h. Cleaning secondary products from the air- John Randtke, Marwa, Jianshun, Brian K, Marilyn, and Jeff Roseberry interested in helping
 - i. Impact of age of electronic air cleaning devices, looking at ozone and potentially harmful contaminants as equipment ages
 1. Investigate how performance degrades over time, how long are they effective, ozone generation with age
 2. Intends to coordinate with manufactures who have equipment installed pre-pandemic, and during the pandemic
 3. Laboratory test, equipment will be taken out of the field and taken back to a lab to test
- i. New Ideas

9 Adjourn