

Draft Agenda
TC 2.3 - Gaseous Contaminants/Removal Equipment
Research Subcommittee Meeting
Virtual, Wednesday June 15th 2:00PM-4:00PM EST

- 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 (Liason TC2.3- Bill Hutzel) 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. A no cost extension until October 28th 2022 was requested but ASHRAE has not yet responded. PMS meeting June 22nd at 3:00-4:00 EST
 - 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 (1 hour) Final publication is under review – completion expected by July 31st. PMS meeting June 15th at 1:00-2:00 EST
 - 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. 10 minutes
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
Waiting for update from Chris Muller

- b. **1869-RTAR:** 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.
Gemma Kerr to update status of resubmission after RAC conditionally approved with comments.
- c. **1846-RTAR:** Real Time Small sensors: Brian K., Fuoad Parvin, Thad Ptak, Jeff Roseberry, Sanjeev H., Jensen Zhang, Jordan Clark. Brian K to update:
- d. **1858-RTAR:** sVOCs including how SVOC emissions change with temperature - Sanjeev*, Jianshun Zhang, Kevin Kwong, Ying Xu, Brent Stephens, Chang-Seo Lee, and Jim Rosenthal. Need status – last correspondence I have seen on this is from 2021.
- e. **1895-RTAR** 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 K drafted a letter to RAC in Feb 2022 – was it ever submitted?
- f. **1928-RTAR-** Combination duct and chamber test. Matt, Gemma, Kathleen, Cheng-Seo, and Joe Pessa. Ali Bahol and Chrystal Jolliffe have recently offered to help.
This is sponsored by 2.9, with 2.4 and 2.3 co-sponsors and has been submitted to RAC and is on the agenda for the next RAC meeting. Negative comments from 2.9 were addresses and this was recirculated for a new vote in April. Need current status:
- 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.

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. Finalizing RTAR- will submit shortly
- b. Acceptable VOC types and concentrations for inclusion in multi contaminant test gases - **ON HOLD** Ashish to champion, Kathleen, Gemma, and Paula, Chang Seo.
- c. Venting for 3D Printers: needs champion (Paula, Gemma, Marwa, Dan, Joel Foster (2.9), Wayne Tomann (EHC), Marilyn, Matthew Stiegel, and Courtney Stanion with Brent talking to 2.4). **ON HOLD** pending finding proper lead TC, Not under the scope of 2.3.
- d. RTAR on 62.2 unvented combustion devices (Nick brought up). They are writing RTAR on this for huge project (millions). We need to be in it. Needs a chemist.
Nick- No progress, nothing to report
- 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)

Brian had started, hasn't had the bandwidth, still needs to be done- would be a literature study to start, eventually would be a research study

Brian- have a mid term meeting

- 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. Chang Seo- has a paper of SVOCs generated- will send to Brian, could include VOC and SVOC
- g. Potential ideas may come out 1579-RP – I corresponded with UT they are interested but have yet to put anything together.
- h. Cleaning secondary products from the air- John Randtke, Marwa can help
- i. New Ideas

9 Adjourn