

**Draft Agenda**  
**TC 2.3 - Gaseous Contaminants/Removal Equipment**  
**Research Subcommittee Meeting**  
**Atlanta Sunday 5:00-7:00 pm**

1. Meeting call to order
2. Introductions and Sign-In – 5 min
3. Review of Minutes from Houston – 5 min
  - A. Minutes available at <https://tc0203.ashraetcs.org/documents.php>
4. RAC Report (Liaison TC 2.3 – Pawel W) – 5 min
5. Hints for Writing a Work Statement – 20 min
6. Active Projects – 15 min
  - A. **1720-TRP Validation of gas-phase air-cleaner performance test method (Standard 145.2) by laboratory testing of commercially available filtration devices** – Kartik Potukuchi PES: Paula Levasseur, Chris Muller, Gemma Kerr. PI: Kathleen Owen
  - B. **1579-TRP Testing and Evaluation of Ozone Filters for Improving IAQ**— Sanjeev Hingorani, Kevin Kwong, Matt Middlebrooks, Nick Agopian, and Thad Ptak are on the PES. Awarded to U. Texas – Austin. Project start date 1/1/2019
  - C. **1755-RP, Impact of Gaseous Contamination and High Humidity on the Reliable Operation of Information Technology Equipment in Data Centers**”. TC9.9 on-going project, TC 2.3 co-sponsor, Chris Muller on PES. Jensen is the PI.
7. Work statements, RTARs, and RPs – Updates – 20 min
  - A. **1780-WS, 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 PES/PMS. **Went out for bid in September 2018.**
  - A. **1838-WS Testing of Electronic Air Cleaners** – w/145 & 62.1 – Kevin Kwong. Chang-Seo Lee, Jeff Roseberry, Kartik Potukuchi, Tony Abate, and Tandeep Chadha Shooting for the August 15 deadline. Nick has been put on the committee as 2.3 rep to help with work statement. Ashish for 2.9 **KO submitted this on 8/15. Should have been on fall docket at RAC. 11/8 notified that RAC ran out time; this one will be considered in January.**
  - B. **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 sponsor. 2.3 co-sponsored. Submitted to RAC by Dustin W Demetriou on 8/15/18. Jensen Zhang was lead RTAR author but will not be a WS writer. TC 2.3 needs a person on the WS writing group. RTAR rejected at fall RAC meeting. 12/10/18 most comments from RAC were about distinguishing 1867 from 1755 whose final report is due 12/31. Thus, can be discussed in Atlanta.
  - C. **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 Zataari, Hoy Bohanon, Wayne Thomann. Submitted 8/15/18, **11/8 accepted with comment to go on to WS**
  - D. **1877-RTAR** – Outdoor ozone in naturally ventilated buildings. cosponsored from 62.1, Charlene on PMS. 2.3 is a cosponsor. **4.3 (Jordan Clark) submitted in Dec 2018**
  - E. **1846-RTAR** Real Time Small sensors: Brian K., Fuoad Parvin, Thad Ptak, Jeff Roseberry, Sanjeev H., Jensen Zhang.

- I. Submitted, rejected, decided to keep it open. After particulate sensor project is finished we may decide to write a new one. Thad Ptak will help provide data from sensors in China. Brian to schedule a telecom in 1 month after Thad forwards information within 2 weeks. Brian will send out the RTAR again to see where things stand. **KO sent reminder to Thad to send data on 7/11/18. Follow-up email sent on 10/23/18**
  - F. 1858-RTAR sVOCs including how SVOC emissions change with temperature - Sanjeev\*, Jianshun Zhang, Kevin Kwong, Ying Xu **11/8/2018 Rejected by RAC 5-0-0. We have to decide what to do next.**
8. Proposed RTARS and other work: status updates - 40 min
- A. Occupant Related Pollution Loads - Chang-Seo Lee\*, Thad Ptak, Marilyn Listvan, Dean Tompkins
    - I. Looking for TRG4 co-sponsorship - some interest. Dean will help write and several others. Need co-sponsorship and needs more clarity before TRG4 will co-sponsor.
    - II. Dean has people from TRG4 who want to help. He will both contact them with the document and send Kathleen the names **(Kathleen sent Dean reminder on 6/24 and 7/11)**
  - B. Bipolar Ionization/Reactive Air Cleaner performance test method for VOC etc. removal and testing a variety of commercially-available ionization devices. Tony Abate champion, Scott Sherwood, Jensen, Dean Tompkins, Charlie Waddell, Chang-Seo, Marilyn Listvan, Ashish. Hold until we hear results of ISO/IEC.
  - C. The effects of filtration on health. Dean Tompkins, Nick Agopian, Lexuan Zhong with EHC interest.
    - I. Dean is writing a draft for a lit search. There is new MTG forming that is dealing with wellness and health. It will not be ready for August 15<sup>th</sup>.
  - D. Multi-contaminant challenge what acceptable VOC levels-on hold. Ashish to champion, Kathleen, Gemma, and Paula.
    - I. Ashish, Jensen, and Gemma wanted this idea left on the list
    - II. We need a better name for this item
      - 1. **Reminder sent 7/11/18**
  - E. The role of gas filtration improving IAQ in Residences – Jensen, Nick, Lexuan Zhong and Kathleen. Keep the topic and see if we can get someone to present a paper of case study. KJ Choi to try to set a program.
  - F. Demand-based air-cleaner operation to save energy. Brian Krafthefer, Jensen Zhang, Kyle Kisebach, someone from GPC 35 – Brian will work on this after the RTAR on Sensors.
    - 1. Not ready for RTAR.
  - G. Venting for 3D Printers: needs champion (Paula, Gemma, Marwa, and Dan)
    - I. Gemma reported that Brent Stephens informed her that UL is working on this.
    - II. We need the TC that handles exhaust. and 2.4 is interested. Kathleen to see what TC might be responsible. **Kevin Marple [kmarple@benzco.com](mailto:kmarple@benzco.com) of TC9.2 is interested.**
  - H. Effect of particles on loading on gas filters, with possible interest in looking at other combinations of technologies in the same air cleaner (probably a separate project) 2.4 / 2.3/ 2.9 (Matt, Brian, Paula, VJ, Brent) [from research chair breakfast: Brent will mention this to 2.4 to see if anyone else wants to help write] **WG is working the draft**
  - I. Marijuana/cannabis – effect on air quality in homes cars etc., needs champion
9. New ideas - 10 minutes
10. Gas-phase dinner plans
11. Adjourn Meeting