

# **DRAFT**

## **MEETING MINUTES**

### **TC 2.3 - Gaseous Contaminants/Removal Equipment – Standards Subcommittee Meeting**

#### **WEBINAR MEETING**

**Monday, June 12, 2023, 3:00-4:00 PM EDT**

- 1) **Introductions and Sign-In.** The meeting was called to order at 3:07 PM EDT. The following people attended this meeting: Michael Sherber, Gemma Kerr, John Randtke, Tori Binz, Caitlin Naske, Mick Flom, Kevin Kwon, Henry Greist, Matt Middlebrooks.
- 2) **ASHRAE Code of Ethics Commitment was read by Chair Michael Sherber**  
*In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.*  
(Code of Ethics: <https://www.ashrae.org/about/governance/code-of-ethics>)  
(Core Values: <https://www.ashrae.org/about/ashrae-s-core-values>) -
- 3) **Approval of the agenda. Approved.**
- 4) **Approval of the Feb. 6, 2023, webinar minutes.** The Feb. 6<sup>th</sup> minutes were approved without changes.
- 5) **Guideline 27-2019 Update Review – Gemma Kerr.** Gemma said that she had submitted the paperwork to ASHRAE last September to get this guideline process committee started up to do the revision of Guideline 27. There were five names listed for the process committee which is the minimum ASHRAE requires.  
ASHRAE accepted the paperwork that Gemma had submitted and had requested all five members make a formal application to ASHRAE on its website to join the guideline process committee. Several members did make formal applications to ASHRAE, but several others did not. Until at least five members have formally applied to ASHRAE through its website our guideline process committee cannot officially do business. Therefore, the remaining members of our committee need to submit their applications to ASHRAE. Gemma said she would remind those who had not yet submitted their applications to get them done. John Randtke also agreed to join our guideline process committee.
- 6) **Update on standards within scope of ASHRAE TC 2.3**
  - a) ASHRAE Std. 145.1-2015 " Laboratory Test Method for Assessing the Performance of Gas-Phase

Air Cleaning Systems: Loose Granular Media” – *Gemma Kerr*. Gemma said that they had made minor changes to the definitions and sent them out for public review. There were no comments from the public review on these changes.

- b) ASHRAE Std. 145.2-2016 "Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Air Cleaning Devices" – *Gemma Kerr*. Gemma said that this committee had made major changes to this standard to allow for the use of all types of air cleaners. It then went out for public review which generated numerous public review comments that the committee is still working through.
- c) ASHRAE Std. 145.4P – “Method of Test for Assessing the Gas-Phase Performance of Air Cleaning Devices and Systems in a Duct-Chamber Apparatus” – *Caitlin Naske*. Caitlin said that 145.4 is being written. There are four working groups (WGs) that meet once a month. They hope to have a rough draft done in about six months.

## 7) ASHRAE SPCs/SSPCs/TCs/TGs; TRGs activities

- a) TC 2.9 "Ultraviolet Air and Surface Treatment" -*Ashish Mathur*
  - i) SPC 185.1-2015 "Method of Testing UVC Devices for use in air handling units or air ducts to inactivate airborne microorganisms" - *Ashish Mathur*
  - ii) SPC 185.2-2014 "Method of Testing Ultraviolet Lamps for Use in IIVAC&R Units its Air Ducts on Irradiated Surfaces" - *Ashish Mathur*
  - iii) SPC 185.3 - *Kathleen Owen*
- b) SSPC 62.1 "Ventilation and IAQ High Rise Buildings" – *Michael Sherber*. Mike said that there was no full 62.1 committee meeting since our last TC 2.3 meeting in Atlanta, so he had nothing new to report.
- c) SSPC 62.2 "Ventilation and IAQ Low Rise Buildings" – No report.

## 8) Information Exchange

- a) AFS - KJ Choi - No report.
  - i) FiltCon 2023, at Galt House, Louisville, KY, May 1-3, 2023
- b) ASTM D22.0S "Air Quality" SC "Indoor Air" – *need a volunteer*
- c) ASTM D28.04 "Activated carbon" SC "Gas Phase Evaluation Tests" - *need a volunteer*
  - i) D6646-03 (2014) "Standard Test Method for Determination of The Accelerated Hydrogen Sulfide Breakthrough Capacity of Granular and Pelletized Activated Carbon"
- d) ISO/TC 142 "Cleaning Equipment for Air and Other Gases" – *Matt Middlebrooks* – Matt said that WG8 is still working on this standard. They are talking about doing a test method for perceived air quality.
  - i) Working Group 8: Gas Phase Air Cleaning Devices and Media
  - ii) **Working Group 11:** Portable room air cleaners for comfort applications (Joint between ISO/TC 142 and IEC/TC 59). Gemma said that WG1, WG2, and WG3 have AHAM documents as a template of what they will do going forward. IEC/TC 59 was restructured to a subcommittee (SC59N) of TC 59 on November 3, 2021. SC59N approved unanimously the creation of 5 Working Groups and 1 Maintenance Team as follows:

### (1) WG 1 - Reduction of particles

To develop performance test method standards for reduction of particles by household and similar electrical air cleaning appliances. Gemma said that this committee is moving along nicely.

(2) WG 2 - Reduction of chemical gases and ozone  
To develop performance test method standards for reduction of chemical gases by household and similar electrical air cleaning appliances. **Gemma said that limonene and formaldehyde will be the challenge gases, along with four other challenge gases. They have proposed to use a single pass through chamber test.**

(3) WG 3 - Reduction of microorganisms  
To develop performance test method standards for reduction of microorganisms by household and similar electrical air cleaning appliances. d

(4) WG 4 - General characteristics – No activity  
To develop guidelines for and management of Round Robin Testing, noise measurement (with TC 59/WG 2), consumer information on sensor communications, measurement of air cleaning appliances in automatic mode, and measurement of electrical power/energy

(5) WG 5 - Special types of air cleaners - No activity  
To develop performance test method standards for special use air cleaning appliances, including fresh-air, air cleaning appliances, passenger vehicle portable air cleaning appliances and robotic/mobile air cleaning appliances

(6) Maintenance Team (MT) 6 - Maintenance of IEC 63086-1  
To maintain IEC 63086-1, Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 1: General requirements. **Gemma said IEC 63086-1 describes the chamber test this is being conducted with.**

e) CEN/TC 15 6 "Ventilation for buildings" - *Paolo Tronville* – **No report.**

i) EN 16798-3:2017 "Energy performance of buildings - Ventilation for buildings - Part 3: For non-residential buildings - Performance requirements for ventilation and room air-conditioning systems (Modules M5-1, MS-4)" (Supersedes EN 13779:2007);

ii) CEN/TR 16798-4:2017 "Energy performance of buildings - Ventilation for buildings - Part 4: Interpretation of the requirements in EN 16798-3 - For non-residential buildings - Performance requirements for ventilation and room-conditioning systems (Modules MS-1, MS-4)"

(1) It contains information to support the correct understanding and use of EN 16798-3.

f) <http://www.cluster-essc.eu/> - The European Sensor-Systems Cluster (ESSC)

g) AHAM – *Kevin Kwong*

i) AC-4 **has been published.**

ii) AC-5 **has been published.**

**Kevin said that both AC-4 and AC-5 are looking at byproducts but have taken no action yet. They have made a proposal for a research project on byproducts, but it has not been approved yet.**

h) CRRA - *Chris Muller* - **no report**

9) **New business – No new business**

10) **Any other business – No other business**

11) **Adjournment - The meeting was adjourned at 3:35 PM EDT.**