

MEETING MINUTES
TC 2.3 - Gaseous Contaminants/Removal Equipment
Standards Subcommittee Meeting
Thursday, Jan. 21, 2021, 2:00-2:45 PM EDT

Present: Michael Sherber (Subcommittee Chair), Sanjeev Hingorani (TC 2.3 Chair), Gemma Kerr, Kathleen Owen, Kevin Kwong, Paolo Tronville, Matt Middlebrooks,

- 1) **Introductions and Sign-In (please email me if you attend with your contact information): Meeting was called to order at 2:05 PM by the Chair Michael Sherber.**
- 2) **Approval of the agenda: The modified agenda was approved by a unanimous vote.**
- 3) **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* - **no report**
 - ii) SPC 185.2-2014 "Method of Testing Ultraviolet Lamps for Use in IIVAC&R Units its Air Ducts on Irradiated Surfaces" - *Ashish Mathur* – **no report**
 - b) SSPC 62.1 "Ventilation and IAQ High Rise Buildings" – *need a volunteer to do this-* **Michael Sherber agreed to do this for future meetings.**
 - i) Research & Education
 - c) SSPC 62.2 "Ventilation and IAQ Low Rise Buildings" - *Nick Agopian* – **no report**
- 4) **Information Exchange**
 - a) AFS - KJ Choi – **no report**
 - b) ASTM D22.0S "Air Quality" SC "Indoor Air" - *Peter Freeman* **no report**
 - c) ASTM D28.04 "Activated carbon" SC "Gas Phase Evaluation Tests" - *Peter Freeman* - **no report**
 - 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" – *Kevin Kwong*
 - i) WG8 "Gas-phase air cleaning devices"
 - 1) ISO/NP 10121- 3 "Test method for assessing the performance of gas-phase air cleaning media and devices for general ventilation - Part 3: Classification system for Treatment of make-up air" **Filters were tested at four different labs on SO₂. Tests showed that they should lower the levels to 9 ppm for SO₂, ozone, toluene, and NO₂. There is some work being done on a perceived IAQ standard (ISO 23743)**
 - ii) WG1 "Portable room air cleaners for comfort applications"
 - (1) ISO/NP 7970-1 "Measurement of the performance of portable room air cleaners - Part 1 Performance against non-viable particulate matter"
 - (2) ISO/PW1 17970-2 "'Measurement of the performance of portable room air cleaners – Part 2: Performance against gases"
 - e) CEN/TC 15 6 "Ventilation for buildings" - *Paolo Tronville*
 - 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). **Paolo said that there is an ongoing effort in Europe to develop regulations for residential and**

- non-residential performance between removal efficiency and energy consumption.**
- 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) Other ISO TCs (and also CEN, ITRJ, etc.)
 - g) <http://www.cluster-essc.eu/> - The European Sensor-Systems Cluster (ESSC)
- 5) **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" *Tony Abate* - **no report.**
 - b) ASHRAE Std. 145.2-2016 "Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Air Cleaning Devices" – **Matt Middlebrooks said that there is a research project going on, this would still be a duct test as opposed to a chamber or room test.**
- 6) **New business**
- a) AHAM – **Kevin suggested adding AHAM as an ongoing update item. TC 2.3 Research is adding testing on the following five contaminants: formaldehyde, limolene, toluene, heptane, and ammonia.**
 - b) CRRA - **Chris Muller suggested adding Chinese standards as an ongoing update item. He said that the Chinese standards have been updated.**
 - c) **WFI 2020 Annual Conference – no report.**
- 7) **Any other business**
- 8) **Adjournment Meeting adjourned at 2:37 PM.**