

MEETING MINUTES
TC 2.3 - Gaseous Contaminants/Removal Equipment
Standards Subcommittee Meeting
Monday June 25 2:15-3:15 Hilton 355 C

1) Introductions and Sign-In

2) New Subcommittee Chair

3) Update on standards within scope of ASHRAE TC 2.3

- a) GPC 27P “Procedures for measurement of gases in indoor environments” – *Gemma Kerr*
ASHRAE Std. 145.1-2015 “Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Loose Granular Media” – *Matt Middlebrooks*
ASHRAE Std. 145.2-2016 “Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Air Cleaning Devices” – *Matt Middlebrooks*.

4) ASHRAE SPCs/SSPCs/TCs/TGs/TRGs activities

- a) TC 2.4 “Particulate Air Contaminants and Particulate Contaminant Removal Equipment” – *Gemma Kerr*
 - i) GPC35P “Method for Determining the Energy Consumption Caused by Air-Cleaning and Filtration Devices” – *Matt Middlebrooks*
 - ii) SSPC 52.2 “Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size”- *Gemma Kerr*
- b) TC 2.9 “Ultraviolet Air and Surface Treatment” – *Ashish Mathur*
 - (1) SPC 185.1-2015 “Method of Testing UVC Devices for use in air handling units or air ducts to inactivate airborne microorganisms” – *Kathleen Owen*
SPC 185.2-2014 “Method of Testing Ultraviolet Lamps for Use in HVAC&R Units or Air Ducts on Irradiated Surfaces” - *Kathleen Owen*
- c) TC 9.11 “Clean Spaces” – *TBD*
- d) SSPC 62.1 “Ventilation and IAQ High Rise Buildings” – *Chris Muller*
- e) SSPC 62.2 “Ventilation and IAQ Low Rise Buildings” – *Bob Burkhead*

5) Information Exchange

- a) AFS – *KJ Choi*
- b) ASTM D22.05 “Air Quality” SC “Indoor Air” – *Peter Freeman*

- **D4861** Practice for Sampling and Selection of Analytical Techniques for Pesticides and Polychlorinated Biphenyls in Air
- **D5116** Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/Products
- **D6485** Guide for Risk Characterization of Acute and Irritant Effects of Short-Term Exposure to Volatile Organic Chemicals Emitted from Bedding Sets
- **D7034** Guide for Deriving Acceptable Levels of Airborne Chemical Contaminants in Aircraft Cabins Based on Health and Comfort Considerations
- **D7339** Test Method for Determination of Volatile Organic Compounds Emitted from Carpet using a Specific Sorbent Tube and Thermal Desorption / Gas Chromatography
- **D5791** Guide for Using Probability Sampling Methods in Studies of Indoor Air Quality in

Buildings

- **D6332** Guide for Testing Systems for Measuring Dynamic Responses of Carbon Monoxide Detectors to Gases and Vapors
 - **D6306** Guide for Placement and Use of Diffusion Controlled Passive Monitors for Gaseous Pollutants in Indoor Air
 - **D6245** Guide for Using Indoor Carbon Dioxide Concentrations to Evaluate Indoor Air Quality and Ventilation
 - **D6399** Guide for Selecting Instruments and Methods for Measuring Air Quality in Aircraft Cabins
- c) ASTM D28.04 “Activated carbon” SC “Gas Phase Evaluation Tests” – *Peter Freeman*
- (1) 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*
- (1) WG8 “Gas-phase air cleaning devices”
 - (2) 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”
- ii) WG11 “Portable room air cleaners for comfort applications”
- (1) ISO/NP 17970-1 “Measurement of the performance of portable room air cleaners - Part 1: Performance against non-viable particulate matter”
 - ISO/PWI 17970-2 “Measurement of the performance of portable room air cleaners - Part 2: Performance against gases”.
- iii) US Technical Advisory Group (TAG) to ISO/TC 142
- e) ISO/TC 205 “Building environment design” – *TBD*
- (1) ISO 16814:2008 “Building environment design - Indoor air quality - Methods of expressing the quality of indoor air for human occupancy” (reviewed and confirmed in 2014)
 - There have been no recent developments
- f) USGBC – *Charlene Bayer*
- g) - CEN/TC 156 “Ventilation for buildings” – *Paolo Tronville*
- (1) EN 16798-3:2017 “Energy performance of buildings - Ventilation for buildings - Part 3: For non-residential buildings - Performance requirements for ventilation and room-conditioning systems (Modules M5-1, M5-4)” (Supersedes EN 13779:2007);
 - (2) 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 M5-1, M5-4)”
 - (3) This document contains information to support the correct understanding and use of EN 16798-3
- h) Other ISO TCs (and also CEN, ITRI, etc.)

6) New business

7) Adjourn