

## TC2.9 ULTRAVIOLET AIR AND SURFACE TREATMENT MEETING AGENDA

2022 Hybrid Annual Meeting      Toronto, ON, Canada

Monday, June 27<sup>th</sup>, 2022, 2:30 PM to 4:30 PM PST, Hybrid Meeting  
Sheraton, Chestnut (M), [WebEx link](#)

TC2.9 Scope – TC2.9 is concerned with all aspects of equipment and systems that utilize ultraviolet radiation to destroy or deactivate chemical and/or biological air and surface contaminants in HVAC systems and indoor spaces, including, but not limited to, effectiveness, safety, maintenance, and economics.

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Welcome / ASHRAE Code of Ethics /Attendance

5 minutes

- “Commitment to the ASHRAE Code of Ethics – 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. (See full Code of Ethics: [ASHRAE COE Link](#))
- Update your ASHRAE bio information at the [ASHRAE](#) website
- Use Chat and type your Name, Affiliation, E-mail, Member Status (Voting, Corresponding, Guest,) and YEA if you are a Young Engineer in ASHRAE, ≤35 years old
- When using the virtual platform, please remember to mute yourself when not speaking, please identify yourself and when possible, please use your camera when speaking

Name	Affiliation	TC Position	Voting Status	Appointed	End Year
Aaron Engel*	Fresh-Aire UV	Program SC Chair	VM	7/1/2020	6/30/2023
Jaak Geboers*	Signify Lighting BV	Standards SC Chair	NQVM	7/1/2021	6/30/2025
Sam Guzman*	American Ultraviolet	Secretary	VM	7/1/2020	6/30/2024
Henry Greist*	Lennox Industries	Chair	VM	7/1/2020	6/30/2022
Richard Vincent*	Mount Sinai Hospital	Research SC Chair	NVM		
Ashish Mathur*	UVDI	Vice Chair	NVM	7/1/2022	6/30/2026
Stephen Martin	CDC/NIOSH	Membership SC Chair	NVM		
Dean Saputa	UV Resources	Handbook SC Chair	NVM		
Robert Coleman	Trane Technologies	Webmaster	NVM	7/1/2022	6/30/2026
Brian Hafendorfer*	Gray Architects and Engineers		VM	7/1/2018	6/30/2022
Kathleen Owen*	Owen Air Filtration Consulting		VM	7/1/2018	6/30/2022
Larry Fletcher*	RGF Environmental		VM	7/1/2021	6/30/2025
Steve Welty*	Green Clean Air		VM	7/1/2021	6/30/2025
Vincent Hwang (YEA)	AHRI		VM	7/1/2021	4/21/2022
Scott Sherwood*	Eco Care Corporation		VM	7/1/2021	6/30/2025
Matt Middlebrooks*	Camfil USA		VM	7/1/2021	6/30/2023
Benoit Despatis-Paquette*			NQVM	7/1/2021	6/30/2025
Kevin Kwong (YEA)	LMS Technologies		NVM	7/2/2022	6/30/2026

Voting members rolling on  
Voting members rolling off  
Voting status adjustments

- Roll Call of Voting Members; Quorum Check 1 minute
- Review Agenda 1 minute
- Review/Approve Minutes from 2022 Winter Hybrid Meeting 1 minutes
- ASHRAE Staff and Liaison Reports 2 minutes
  - Larry Smith, *TAC Chair* Kettler Gerald, *Standard Liaison*
  - Jon Cohen, *Section Head* Steven Hammerling, *Staff Liaison*
  - William Hutzler, *Research Liaison*

Votes Summary Since Last Main Meeting:

Date	Topic	Motion	Vote					
			F	Ag	Ab	NV	CV	
2/28/2022	WS 1928 "Air Cleaner Efficiency in Combination Chamber Duct System"	Vote to Sponsor	8	1	0	3	Y	*PASS
4/12/2022	Recirculation ballot for WS 1928 "Air Cleaner Efficiency in Combination Chamber Duct System"	Vote to Sponsor	10	0	0	1	Y	PASS

- Review TC Chair Breakfast & Training WS (6/26/22) 5 minutes
  - Decarbonization WGs and call for volunteers & liaisons
  - Ventilation 2025 volunteers needed

**SUBCOMMITTEE REPORTS**

**Project Committees**

- GPC-37-Upper Room UVC;** Richard Vincent, SC Chair 5 minutes
- SSPC-185** Methods of test to Inactivate Microorganisms, Steve Martin, Chair 5 minutes
- SPC-185.3P** Method of testing in-room devices and systems for microorganism removal or inactivation in a test, Linda Lee, Chair 5 minutes
- SPC-185.4P** Method of Testing In-Room Ultraviolet Devices and Systems for Microbial Inactivation on Surfaces in a Test Room, Katja Auer Chair 5 minutes

**Research Subcommittee,** Richard Vincent, SC Chair 15 minutes

- Update on activities from TC Research Meeting
- Executive Session to review PES 1854-TRP summary and PES bidder recommendation
  - Exec. Session includes only the following: Committee voting members, PES members, the Research Liaison and ASHRAE staff, and excludes those affiliated with bidding organizations
  - Do not log out of the virtual meeting. A breakout room will be created for the Exec. Session.
  - In-person attendees not listed above will be asked to leave the room until the confidential bid information discussion and vote are taken, thank you for your understanding

**Standards Subcommittee,** Jaak Geboers, SC Chair 5 minutes

**Program Subcommittee,** Aaron Engel, SC Chair 25 minutes

Current Programs:

<b>Seminar 44: Are all UV Wavelengths the Same: Emergence of Far UV and UV LEDs for Disinfection</b>	Wed, 6/29/22 @ 9:45 AM EDT	Wed, 6/29/22 @ 10:45 AM EDT	<a href="#">Link</a>
Presentation 1: Applications Using UVC LEDs: Leading the Way for an Effective Mercury-Free Future	Wed, 6/29/22 @ 9:45 AM EDT	Wed, 6/29/22 @ 10:05 AM EDT	<a href="#">Link</a>
Presentation 2: Challenges and Opportunities for Filtered Far UV-C Disinfection Solutions in Occupied Spaces	Wed, 6/29/22 @ 10:05 AM EDT	Wed, 6/29/22 @ 10:25 AM EDT	<a href="#">Link</a>
<b>Seminar 11: Applying UV as Best Practices and Pandemic Preparedness to Address Air and Surfaces Disinfection within Buildings</b>	Sun, 6/26/22 @ 1:30 PM EDT	Sun, 6/26/22 @ 3:00 PM EDT	<a href="#">Link</a>
Presentation 1: Applying UV Disinfection Technologies to in Room and Occupied Spaces	Sun, 6/26/22 @ 1:30 PM EDT	Sun, 6/26/22 @ 1:50 PM EDT	<a href="#">Link</a>
Presentation 2: Applying UV Disinfection Technologies for Unoccupied Spaces	Sun, 6/26/22 @ 1:50 PM EDT	Sun, 6/26/22 @ 2:10 PM EDT	<a href="#">Link</a>
Presentation 3: UV Disinfection for HVAC and Duct Mount	Sun, 6/26/22 @ 2:10 PM EDT	Sun, 6/26/22 @ 2:30 PM EDT	<a href="#">Link</a>

Future programs discussion

Upcoming Paper and Proposal Deadlines:

~~Tuesday April 5, 2022 – Conference Paper Abstracts, Technical Papers, and Paper Session Requests Due~~

~~Tuesday April 26, 2022 – Conference Paper Abstract Accept/Reject Notifications~~

Monday July 25, 2022 – Conference Papers Due – Submitted for Review

Tuesday August 9, 2022 – Debate, Panel, Seminar Form, Workshop Proposals Due

Monday August 15, 2022 – Conference Paper Abstract Accept / Revise / Reject Notifications

Monday August 29, 2022 – Revised Conference Papers, Technical Papers Due

Friday September 23, 2022 – Conference Paper Accept / Reject Notifications

Monday October 10, 2022 – Debate, Panel, Seminar, Forum Workshop Accept / Reject Notifications

**Handbook Subcommittee**, Dean Saputa, SC Chair 5 minutes  
 2019 Applications Handbook, Chapter 62- Revision underway, Letter Ballot forthcoming

**Membership Subcommittee**, Stephen Martin, SC. Chair 5 minutes  
 TC roster summary, membership updates and corrections

**TC Website Report**, Bob Coleman, Webmaster 2 minutes

**Reports from TC Liaisons** 10 minutes

SSPC 62.1, *Ventilation for Acceptable Indoor Air Quality*, Brian Hafendorfer

SSPC 62.2, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*, Henry Greist

SSPC 145, *Test Method for Assessing the Performance of Gas-Phase Air Cleaning Equipment*, Matt Middlebrooks

SSPC 161, *Air Quality Within Commercial Aircraft*, Aaron Engel

TC 2.3, *Gaseous Air Contaminants and Gas Contaminant Removal Equipment*, Matt Middlebrooks

TC 2.4, *Particulate Air Contaminants and Particulate Contaminant Removal Equipment*, Kathleen Owen

TC 9.6, *Healthcare Facilities*, Katja Auer

**Reports from Other Liaisons**

UL-1995 / UL 60335-2-40, Brian Rodgers

US TAG for ISO/TC 142, Dean Saputa

IUVA/ASHRAE Collaboration, Ashish Mathur or Sam Guzman

AHRI, Julie Majurin

IES, Richard Vincent or Dean Saputa

NEMA, Jeremy Yon or Michael O'Boyle

**Old Business** 5 minutes

**New Business / Action Items** 5 minutes

**Outgoing Chair Remarks** 5 minutes

**Adjourn**