

TC 2.9 ULTRAVIOLET AIR AND SURFACE TREATMENT

MEETING AGENDA

2025 Winter Meeting, Orlando

Date: Monday, February 10, 2025

Time: 10:00 to 12:00 PM EDT

Location: **Hilton Orlando Lake Monroe AB (Lobby Level)**

Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmM2NWZhYjltNzFiMS00YzNmLTkwMDUtNTRkNDY0NzIzYmI3%40thread.v2/0?context=%7b%22id%22%3a%22032b90aa-1ad1-47ba-9938-c32ad43e5c94%22%2c%22oid%22%3a%2215cafd91-808c-45d9-90da-fbb625bde558%22%7d

TC 2.9 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.

Website: <https://tpc.ashrae.org/?cmtKey=e94e5979-e432-4716-a91f-ff438f192a2f>

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Welcome, Call to Order

1 minute

ASHRAE Code of Ethics

1 minute

“ In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interests. (See full Code of Ethics: <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>.)”

ASHRAE Diversity Commitment

“ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We proactively pursue and celebrate diverse and inclusive communities understanding that doing so fuels better, more creative, and more thoughtful ideas, solutions, and strategies for the Society and for the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socio-economic status, belief systems, sexual orientation, or education.”

Introductions (Name and Affiliation) Sign-in Sheet

5 minute

Use Webex 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

Update your ASHRAE bio information at the [ASHRAE](https://www.ashrae.org) website

Roll Call of Voting Members; Quorum Check

1 minute

Name	Affiliation	TC Position	Voting Status	Appointed	End Year
Sam Guzman	American Ultraviolet	Chair	VM	7/1/2024	6/30/2026
Aaron Engel	Fresh-Aire UV	Vice Chair	VM	7/1/2024	6/30/2028
Derek Sears	Lumalier Ultraviolet	Secretary	VM	7/1/2024	6/30/2028
Larry Fletcher	RGF Environmental	Standards SC Chair	VM	7/1/2022	6/30/2025
Scott Sherwood	Eco Care Corporation	Program SC Chair	VM	7/1/2021	6/30/2025
Robert Coleman	Trane Technologies	Webmaster	VM	7/1/2022	6/30/2026
Carl Bloomfield	Intertek Testing Services	Member	VM	7/1/2023	6/30/2027
Richard Lee Vincent	Mount Sinai	Research SC Chair	VM	7/1/2023	6/30/2027
Kevin Kwong	LMS Technologies	Member	VM	7/1/2022	6/30/2026
Steve Welty	Green Clean Air	Member	VM	7/1/2021	6/30/2025
Stephen Martin	CDC/NIOSH	Membership SC Chair	NVM	N/A	N/A
Richard Vincent	Mount Sinai Hospital	Research SC Chair	NVM	N/A	N/A
Ashley Shipley	Lumalier Ultraviolet	Handbook SC Chair	NVM	N/A	N/A

Review Agenda

1 minute

Approve Draft Minutes from 2024 Summer Meeting, Indianapolis

3 minutes

ASHRAE Staff and Liaison Reports

5 minutes

Craig Messmer, TAC Chair

Lan Chi Nguyen Weekes, Section Head

Chris Gray, Research Liaison

William Walter, Standard Liaison

Steven Hammerling, Staff Liaison

Rex Scare, Handbook Liaison

Review Action Items from TC Chair breakfast

5 minutes

- Updated prior to main meeting...

TC Website Report, Bob Coleman, Webmaster

1 minute

SUBCOMMITTEE REPORTS

Research Subcommittee, Richard Vincent, SC Chair

10 minutes

Update on activities from TC Research Meeting

RP 1854: UVC K-values – completed, available (?), conference paper, and report publication

WS 1928: Air Cleaner Efficiency in Combination Chamber Duct System

WS 1873: Upper-Air Ultraviolet Germicidal Irradiation (UVGI) for Tall Spaces – resubmitted – status (?)

Standards Subcommittee, Larry Fletcher, SC Chair

10 minutes

SSPC-185 Methods of test to Inactivate Microorganisms, *Katja Auer, Chair*

ASHRAE Standard **185.1** - Method of Testing UVC Lights for Use in Air Handling Units or Air Ducts to Inactivate Airborne Microorganisms- **scope changes update to include MS2** – Steve?

ASHRAE Standard **185.2** - Method of Testing Ultraviolet Lamps for Use in HVAC&R Units or Air Ducts to Inactivate Microorganisms on Irradiated Surface- update to include lamps perpendicular to duct – Discussed during Sat. Standards / GPC-37 meeting update from Sam / Larry

ASHRAE Standard **185.3** - Method of Testing Commercial and Industrial In-Room Air-Cleaning Devices and Systems for Microorganism Bioaerosol Removal or Inactivation in a Test Chamber – Continuing maintenance

ASHRAE Standard **185.4P** - Method of Testing In-Room Ultraviolet Devices and Systems for Microbial Inactivation on Surfaces in a Test Room- passed public review comments – Continuing maintenance

ASHRAE Standard **185.5P** - Method of Testing HVAC-duct mounted Devices and Systems and In-Room devices for Particle and Microorganism Removal or Inactivation in a Chamber with a Recirculating Duct System – close to public review? Update from *Kathleen Owen, Chair*

ASHRAE Standard **241**, Control of Infectious Aerosols – Update on next revision and changes - Steve Martin

Project Committees

GPC-37-Upper Room UVC; *Richard Vincent, Chair* 5 minutes

Program Subcommittee, Scott Sherwood, SC Chair 10 minutes
Status of current and future programs

Handbook Subcommittee, Ashley Shipley, SC Chair 5 minutes
Status of Handbook developments

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

Reports from TC Liaisons 10 minutes

SSPC 62.1, *Ventilation for Acceptable Indoor Air Quality*, Brian Hafendorfer
-TC 2.9 submitted suggested verbiage for the 5.9.2 section – during the virtual meeting they decided to “punt” for now.

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 10 minutes

IUVA - Test method to measure inactivation rates constants for micro-organisms in air and surfaces IUVA meeting
- March 2025 Workshop on Standardizing Inactivation Constants Venue: The American Geophysical Union Conf.

Center, downtown DC **March 18, 19 & 20** (2.5 days) - update Troy Cowan –

UL Standards - UL-1995 / UL 60335-2-40/ US 8802/UL 8803, Carl Bloomfield/ Brian Rodgers

US TAG for ISO/TC 142, Nicole Sasher – Katja Auer

IES, Richard Vincent

NEMA Michael O’Boyle

NALMCO Update – Erik Ennen

Old Business: 5 minutes

New Business / Action Items: 5 minutes

Adjourn