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TC/TG/TRG MEETING MINUTES

TC/TG/TRG NO. (TITLE): TC 5.9 Enclosed Vehicular Facilities
DATE/TIME OF MEETINGS: February 1, 2022 6:30 PM- 8:30 PM
EDT
LOCATION: Microsoft Teams online meeting

1. The Chair, David Newman, called the meeting to order at approximately 6:30 PM.
2. Identification of Voting Members. There were 5 of 8 voting members present, which met requirements for a quorum.

David Newman – Chair

David Hahm – Research S/C Chair

Yoon Ko – Programs S/C Chair

Andrew Louie – Handbook S/C Chair – not present

Dimitry Kogan

William Lumpkin – not present

James McCarron – not present

Duncan Phyfe

3. Approval Minutes of Last Meeting: TC 5.9online meeting June 29, 2021
Dimitry Kogan motion, second by Duncan Phyfe
4. Reminder about Code of Conduct
5. Chairman's Remarks – David Newman
 - 5.1. Igor Maevski became a fellow member of ASHRAE
 - 5.2. Voted to disband SPC 217. The addendum to SPC 217 will be published shortly. Recognized Igor Maevski for his leadership.
 - 5.3. Monthly meetings of TC 5.9 will continue
 - 5.4. Hybrid TC meetings will continue in the future
6. Section Head Report (Kevin Marple) – remarks
 - 6.1. Four TC members will be rolling off this year
 - 6.2. Membership roster needs to be updated by February 15, 2022
 - 6.3. Any questions about/to TAC should be directed to email asktac@ashrae.net
 - 6.4. DN commented that TC is somewhat underrepresented with owners and manufacturer's representatives

7. Subcommittee Reports

7.1. Programs Subcommittee (Yoon Ko) – see attached for sub-committee report

- No program sessions are sponsored for January 2022 meeting
- Seminar/Forum/Panel can be submitted by February 17, 2022 for Toronto, ON meeting in Summer 2022
 - 8 different tracks (Fundamental and Applications, HVAC&R Systems and Equipment, Research Summit, Connected Buildings, Cold Climate Building Systems, IAQ, Energy Use, Comfort and Health of Sustainable Buildings, Professional Development and Education, Buildings in Aftermath of COVID-19)
- Atlanta, GA meeting in Winter 2023
 - Tracks (e.g. Fundamentals and Applications, Pathways to Zero Energy Emissions & Decarbonization, Grid Resilience & Thermal Storage, Multifamily Residential Buildings, Operation & Maintenance, MiniTrack - supply chain challenges)
 - April 5, 2022 – Conference Paper Abstracts are due
 - Asked for volunteer for the following suggested topics:
 - Rail, Road and Mass Transit Ventilation “concepts” under extreme events – harmful agents, aerosols, bacteria and virus (suggested by Greg Sanchez)
 - Platform screen doors (suggested by Greg Sanchez)
 - Assessment of tunnel and station way side pressure transient and the impact it has on exposed equipment – dampers, fan, jet fans, doors, signs (suggested by Greg Sanchez)
 - David Newman asked to consider these or different topics; opportunity for outreach to a significant audience/visibility, and to do a research to advance topics we need to further develop
 - Yoon Ko asked for any volunteers to reach out to her
- For Toronto 2022 meeting, three (3) ideas:
 - Underground parking garage issues + EV hazards (suggested by Lyle)
 - High speed rail and pressure issues + introducing/promoting new standard (suggested by David Newman)
 - David Newman suggested a topic of ventilation of freight tunnels could be included
 - For forum: 1 moderator is needed, 60 minutes discussion, no presentations
 - Explore a forum option
 - Train car ventilation concerning harmful agents/bacteria or virus (suggested by Andrew Louie)
 - Duncan Phyfe and Asesh Raychaudhuri to be included on correspondence
 - Igor Maevski: ASHRAE Guideline 23 (2016) - GUIDELINE FOR THE DESIGN AND APPLICATION OF HEATING, VENTILATION, AND AIR-CONDITIONING EQUIPMENT FOR RAIL PASSENGER VEHICLES – chaired by Hasser
 - Duncan Phyfe: Upper room UV – new ASHRAE guideline is coming
 - Yoon Ko will send a link for submissions

7.2. Research Subcommittee (David Hahm) – see attached for subcommittee report

- ASHRAE Section 5 Research liaison Jin Wen joined
 - ASHRAE has financial difficulties
 - Will fund the ongoing projects
 - 28 new RTARs in a pipeline for review
 - Funding mechanisms were suspended: GIA, IRG and URP
 - New research strategic plan is posted online
 - If you have a new idea, use PTAR path for publication
 - Web-based portal is developed to upload RTARs
 - PMS and PEC members need to attend training sessions
 - PMS meetings are public but confidential for publication
- Phase 1 Integrated Design of EVS-FFFS in Highway Tunnels – Review of Nozzle Selection for Lab Testing and provided updated document – David Hahm will post on BaseCamp
- Thermal comfort requirements for metro and railway station platform areas for normal ventilation research project – looking for volunteers; Tom O'Dwyer is not available; asked IM for SPC 217 working groups' rosters
 - David Hahm will discuss potential RTAR with TC 5.11 and/or 2.1 for co-sponsorship

- Jin Wen suggested to connect DH with TC 4.11 – ongoing project funded by SEPTA – air quality inside a vehicle
- Alternate Fuels Vehicles Emissions and Ventilation (Norris Harvey is chair of SPC 217 working group)
- Comprehensive tunnel ventilation systems inspection requirements for NTIS program – no update from FHWA
 - David Newman suggested to draft a RTAR
 - Igor Maevski stated that AASHTO may be working on the same issue; will follow up
- LEED requirements for certification for station design based on ASHRAE 90.1 (David Hahm will reach out to Matt Davy)
- Phase 2 for integrated design of EVS-FFFS in Highway Tunnels – dependent on Phase 1 - no change
- High Speed Pressure Transients – suggested Yuan Li to work with Andrew Louie
- Reduced Atmospheric Type Systems – Sean Cassidy identified a working group to research hyperloop type systems; different standards
- Topics for further development (Station Thermal Comfort, High Speed Rail Aerodynamics and Ventilation, and Freight Tunnel Ventilation)

7.3. Standards Subcommittee (Yuan Li)

- SPC 217 had a virtual meeting prior to TC 5.9 meeting
 - Igor Maevski (Chair of SPC 217) shared Addendum A for SPC 217 – reviewed by ASHRAE for publication
 - SPC 217 was published in 2020 and then the committee was extended for a year
 - Multiple working groups made additions/revisions which were included in Addendum A
 - Next steps were considered for SPC 217 committee
 - Termination of SPC committee and rolling SPC 217 standard under TC 5.9
 - SSPC committee creation option (needs continuous maintenance; new publication every 2 years)
 - SPC 217 committee was voted to be disbanded
 - Commended Igor Maevski for his leadership and enormous efforts on SPC 217 committee
 - Asked TC 5.9 for continuous maintenance of the standard
 - 7 working groups should continue
- David Newman remarked on disbanding of SPC 217 – bringing SPC 217 under TC 5.9 is a right decision; we need to focus on how the work will continue; proposed to create Standard 217 subcommittee under Standards Subcommittee; list of working groups will be distributed with the meeting minutes; pushing for younger infusion of talent to work on these initiatives

7.4. Handbook Subcommittee (Andrew Louie – not present)

- David Newman stated that the Handbook update will be on the next monthly meeting agenda

7.5. Webmaster (Simona Tsvetkova – not present)

- No update

8. Liaison Reports

- TC 5.1 (Asesh Raychaudhuri) – no update
- TC 5.6 (Yoon Ko) – no update
- NFPA 130 (Andrew Louie – not present) – no update
- NFPA 502 (Igor Maevski) – New revisions to NFPA 502 will be published soon; critical velocity equation revisions in Annex; extensive debates on this issue
- PIARC (Ahmed Kashef – not present) – no update

9. Old Business

- None

10. New Business and Comments

- Yuan Li congratulated Igor for becoming Fellow Member

11. Meeting Adjournment – motion by David Newman

12. Submitted by Dimitry Kogan, Voting Member – TC 5.9