

Review of prior TC 5.9 Meeting Minutes (29 June 2010 – Albuquerque, NM): Nader Shahcheraghi motioned to approve minutes; George Hadjisophocleous seconded the motion. The minutes were approved without revision.

Section 5.0 Announcements:

1. Robert Smith announced that the Mentoring Program has been established. He asked for volunteers to become mentors and for those who want to be mentored to pass information to Igor Maevski:
2. ASHRAE suggested setting up the conference calls for the TC Committees meetings to keep working between the semiannual meetings. For additional information from on get help Mike Vaughn maugh@ashrae.org
3. Passports or other valid documents will be needed for the Montreal meetings

Program Sub-Committee Report: (Kai Kang)

Kai Kang conducting program subcommittee meeting. During the Sub-Committee meeting, each of the scheduled TC5.9 Program events was re-visited in terms of: event type, proposed meeting date, topic, planned contributors and chairperson availability. The current TC5.9 Program event status is:

- **Montreal, Canada (Jun 25 – Jun 29, 2011) Technical Papers to be submitted by February 14 (acceptance expected by March 18)**
 - MT1: Seminar – ‘State-of-the-art in tunnel ventilation’, or: Seminar - Special Ventilation Issues in High-Speed Rail Tunnels Chair: Mark Colino to finalize.
 - MT2: Forum – ‘Boundary conditions for tunnel ventilation modeling’, Chair: Tom O’Dwyer.
 - MT3: Seminar – Ventilation Design for Road Tunnels based on risk analysis. Chair: Ahmed Kashef
 - MT4: Seminar – ‘Review on system and equipment selection, fans, dampers and controls including fan specification on high temperature rating’, Chair: John Murphy;
- **Chicago (full technical paper or abstract for conference paper due date April 18),**
 - CH1: Technical Paper – ‘Vehicle Design Fire for Tunnel Ventilation’ Chair Igor Maevski (replaced Jeff Tubbs). George Hadjisophocleous, Greg Sanchez, Ahmed Kashef, Jeff Tubbs – potential authors
 - CH2: Seminar – ‘Towards a Station Ventilation Sustainable Design Guidance’, Chair: Mohammad Tabarra;
 - CH3 Seminar - Sustainable environment for enclosed vehicle facilities Chair Antony York;
- **San Antonio, TX**
 - SA1: Technical papers – ‘Innovation on Station Ventilation Design’ (Kai Kang)
- **Future program topics:**
 - Air-cleaning for tunnels;
 - Integration of rail station into buildings;
 - Commissioning of Tunnel Ventilation Systems;
 - Extreme Events Ventilation Requirements;
 - Tunnel Ventilation Velocity Profile on Egress Calculations;
 - Matrix Development to Achieve LEED Certification for Station Design.

As of July 1, 2011 Mark Colino will chair the subcommittee

ASHRAE Journal Sub-Committee Report: (Paul Miclea)

Bob Smith reported and suggested if anybody have topics to be published, should get in touch with Paul Miclea

Handbook Sub-Committee Report: (Jeff Tubbs)

Jeff Tubbs reported that ASHRAE provisionally accepted changes to the chapter. Handbook is on schedule. As of July 1, 2011 a new chairman for the subcommittee will be Kai Kang

Research Sub-Committee Report: (Ahmed Kashef)

Ahmed Kashef reported that ASHRAE has received one item for RTAR: Pressure transient in rail tunnels and underground station. However the RTAR submitted had not sufficient information on project schedule and cost estimates. The RTAR requires further development. Physical modeling will be the next step. New scope, cost and duration required.

Other provisional research topics:

Performance of jet fans in tunnel niches. RTAR to submit by John Murphy and Igor Maevski

Sustainability of stations that link to buildings. Tony York will discuss with Mohamed Tobarra on the RTAR.

Membership Sub-Committee Report: (Tom O'Dwyer)

Igor Maevski reported that roster was updated.

Nomination for new voting members. Robert Smith proposed to add several voting members. The nominees were Anthony York, Igor Masevski, Ahmed Kashef – Committee voted unanimously in favor of adding the voting members.

Igor Maevski made an announcement that guests who want to become corresponding members should provide their business cards with ASHRAE membership # to Tom O'Dwyer. Robert Smith announced that Dharam Pal was moved to Non Quorum voting members category due to uncertainties with his ability to attend committee meetings.

Website: (David Newman)

No report. The importance to maintain the website and publish the minutes was highlighted.

Liaison Reports:

Gas Mastro – Head of Section 5. Reported:

1. Website – web master must keep it up today. Informative. Minutes of the meetings shall be posted to the committee web sight
2. Roster updates shall be submittal by February 10 preferably electronically.
3. Montreal meeting – need passports to get through the borders.
4. Introduction of multidisciplinary technical work – to bridge several TC activities to avoid duplications and to share activities.

TC 5.1 (Aresh Raychaudhuri – not present)

John Murphy reported the status. Discussion on minimum fan efficiency was held at the subcommittee meeting.

TC5.6 (Gary Lougheed)

Two program items in Las Vegas

No program items in Montreal

NFPA 130. (Greg Sanchez)

Cycle pushed for another year, which allows for additional time for comments on the Standard. Comments and suggestions are welcomed.

NFPA 502. (Igor Maevski)

The 2011 edition of NFPA 502 has been issued and is available for purchase. Several errors were found in the document. Those include some incorrect references and some other issues. The new review cycle has not started yet.

PIARC. (Ahmed Kashef)

New PIARC documents on design fires, emissions, terminology and encyclopedia are being prepared and will be issued soon

APTA. (Paul Miclea)
No report

Mining. (George Gamble)
George Gamble announced a meeting in Denver, CO (26 February - 2 March 2011). 20 papers on mining ventilation will be presented

Old Business
None

New Business and Comments:

- BHRG 14th International Symposium on Aerodynamics and Ventilation of Tunnels will be held in Scotland in May 2011.
- ASHRAE is proposing sponsoring one person from each subcommittee for attending the learning institute. The course to be related to TC interests. ASHRAE promotes a full day and half day courses. The course listing is published on the ASHRAE website. The TC5.9 supports this effort.

Adjournment:

Greg Sanchez made a motion to adjourn the meeting; seconded by Nader. TC5.9 Chairman Robert Smith adjourned the meeting at 5:00 PM. Next meeting is scheduled for Montreal

George Hadjisophocleous made a presentation on the train fire tests for FHRR performed in Canada for the Korean car.

Recorded by Igor Maevski, TC5.9 Secretary