

**AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING  
ENGINEERS, INC.**

**1791 Tullie Circle, N.E./ Atlanta, GA 30329**

**404-636-8400**

**TC/TG/TRG MINUTES COVER SHEET**

(Minutes of all TC/TG/TRG Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

**TC/TG/TRG NO.:** TC 5.9

**TC/TG/TRG TITLE:** Enclosed Vehicular Facilities

**DATE OF MEETING** January 30, 2001

**LOCATION:** Atlanta, GA

VOTING MEMBERS PRESENT	YEAR APPTD	VOTING MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO (CM) MEMBERS AND ADDITIONAL GUEST (G) ATTENDANCE
John Klote	<u>1998 - 2002</u>	Roger Lichtenwald		
Gary Kile	<u>1997 - 2001</u>	Joe Gonzalez	<u>1998 - 2002</u>	Mark Colino (CM)
Ray Sinclair	<u>2000 - 2004</u>	Roberto Arditi (IM)	<u>1997 - 2001</u>	Mario Boragina (CM)
Greg Sanchez	<u>1998 - 2002</u>	Laslo Emlo (IM)	<u>1999 - 2003</u>	Gary Loughheed (CM)
Joe Grella	<u>1997 - 2001</u>		<u>1999 - 2003</u>	Paul J.M. Nelissen (CM)
G Hadjisophocleous	<u>2000 - 2004</u>			Robert Z. Smith (CM)
Colin Macedo	<u>2000 - 2004</u>			Sudhir Agrawal (CM)
Dharam Pal	<u>1998 - 2002</u>			John Murphy (CM)
				Jim Schick (CM)
				Steve Presser (CM)
				David Wood (CM)
				Art Bendelius (CM)
				Gideon Rosen (G)

				Alexander Zhivov (G)
				Mike Freeman (G)
				Jurij Modic (G)

**DISTRIBUTION:**

**ALL MEMBERS OF TC/TG/TRG**

**TAC CHAIRMAN:** Ed Gut

**TAC SECTION HEAD:** Riccardo R. Gamboa

**LIAISONS:** William W. Seaton (RAC Research), Piotr A. Domanski (Standards), Michael B. Pate (Program), Brian J. Webb (Staff Liaison - Research), Claire B. Ramspeck (Staff Liaison - Standards), Martin Joseph Weiland (Staff Liaison - Tech. Services), Kenneth F. Bailey (TEGA Liaison)

**Journal:** Jim Cummings

**AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS, INC.**

Technical Committee TC 5.9 - Enclosed Vehicular Facilities

Meeting Minutes - January 30, 2001 – Atlanta, GA

1. **Call to Order:** Chairman Gary Kile called the meeting to order at 4:00 PM.
2. **Roll Call:** The chairman recognized the voting members and determined that a quorum of 8 voting members (out of a total of 12) were present to enable voting to take place.

An attendance sheet was circulated and the current TC 5.9 roster was reviewed and updated by those present. The attendees were required to introduce themselves and to express their desire to become voting or corresponding members of TC 5.9. It was emphasized again that communication by email is preferred rather than regular mail.

3. **Agenda:** The proposed agenda was adopted by consensus.
4. **Meeting Minutes:** The minutes of the last meeting in Minneapolis were reviewed. John Klote moved that the minutes be approved, with a correction to section 5.5 showing the Atlantic City session on CFD Modeling Benchmark for Transit Systems to be a

Symposium rather than a seminar, and Greg Sanchez seconded. The minutes, as corrected, were approved in unanimity.

## 5. Items of Business

**5.1 Organization:** Chairman Kile reported that beginning in July 2001, the committee leadership would be; Chair – Joe Gonzalez, Vice Chair – Paul Miclea, Secretary – Joe Grella. John Klote moved to accept these officers and Ray Sinclair seconded. This motion passed unanimously.

**5.2 Liaison:** Verbal reports were presented on TC 5.1 and 5.6 meetings some members attended. Brian Webb, Journal liaison reported that the current Journal backlog is 6-8 months.

**5.3 Handbook Subcommittee:** Mark Colino discussed the schedule for the upcoming revision and passed out a document listing all authors and the schedule to be followed.

**5.4 Standards Subcommittee:** No report

**5.5 Program Subcommittee:** Bill Kennedy has resigned as subcommittee chair, due to the time being required of him as Chair of NFPA 130. Chairman Kile assigned Paul Miclea as Program Subcommittee Chair to replace Bill. Greg Sanchez is filling in for the present until Paul can take over.

The following activities were approved for the upcoming meetings:

### Cincinnati, June 2001:

- **Forum** on facility ventilation for CNG powered busses, addressing system design requirements, with Sudhir Agrawal as Moderator. This was not approved for Atlanta.
- **Forum** on the performance of VFDs when tested with the motor. Gary Kile to serve as moderator.
- **Seminar** on CFD Applications for Tunnel Ventilation was proposed in February to be co-sponsored with TC 5.6, with five papers (by Ray Sinclair on LA Metro, Greg Sanchez on NYCT, Sverdrup on Tren Urbano, Ghani Zigh of PB and a follow up by Kaiser on using various CFD codes). Moderator Paul. This was originally scheduled to be a symposium, but the papers were not prepared in time.

### Atlantic City, January 2002:

- **Symposium** on CFD Modeling Benchmark for Transit Systems, with Greg Sanchez as Moderator.
- **Seminar** on using the newly developed SOLVENT CFD code, as part of the Memorial Tunnel Fire Ventilation Test Program. Joe Gonzalez to serve as Moderator.

### Honolulu, June 2002:

- **Symposium** on airflow field tests was proposed in February and offered to be co-sponsored with TC 5.6. Moderator TBD.

**5.6 Research Subcommittee:**

John Murphy reported that he has been unable to produce a draft of a work statement on the measurement of the heat release rate of transit cars. It was agreed that an ad-hoc working group consisting of Ray Sinclair, Dharam Pal, Greg Sanchez and Mario Boragina would work on preparing a draft of a work statement for a project to define how the design heat release rate should be determined. This project might, or might not, lead to the requirement to measure the heat release rate

**6. New business:** Alexander Zhivov requested that the committee consider the problem of ventilation in automobile assembly plants. Although the committee members agreed that these are technically enclosed vehicular facilities, the problems here are more closely aligned with industrial ventilation.

7. **Time and place of next meeting:** Tuesday June 26, 2001 in Cincinnati, OH.
8. **Adjournment:** The agenda being exhausted, the meeting adjourned at 5:20 PM.

Meeting Minutes prepared by John Murphy for:

