



**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 June 26, 2001

LOCATION: Cincinnati, OH

VOTING MEMBERS PRESENT	YEAR APPTD	VOTING MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO (CM) MEMBERS AND ADDITIONAL GUEST (G) ATTENDANCE
Joe Gonzalez	-			Mark Colino (CM)
John Klote	<u>1997 - 2001</u>	Joe Grella	<u>1997 - 2001</u>	Gary Loughheed (CM)
Gary Kile	<u>1998 - 2002</u>	Dharam Pal	<u>1998 - 2002</u>	Paul J.M. Nelissen (CM)
Roger Lichtenwald	<u>1997 - 2001</u>	Roberto Arditi (IM)	<u>1999 - 2003</u>	John Murphy (CM)
Greg Sanchez	1998 - 2002	Ray Sinclair	<u>2000 - 2004</u>	Steve Presser (CM)
Laszlo Emho (IM)	<u>1998 - 2002</u>	Mario Boragina	2001-2005	Anthony York (CM)
G Hadjisophocleous	<u>1999 - 2003</u>	Sudhir Agrawal		Robert Henry (G)
Colin Macedo	<u>2000 - 2004</u>			Richard Zaugg (G)
	<u>2000 - 2004</u>			Igor Maevski (G)
				Paul Miclea (CM)
				Amy Musser (G)

				Jason Slusarczyk (G)
				Chuck Coward (G)
				Jelena Srebric (G)
				Ashesh Raychaudhuri (CM)
				Art Bendelius (CM)
				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 - June 26, 2001 – Cincinnati, OH

1. **Call to Order:** Chairman Gary Kile called the meeting to order at 4:00 PM. Since this was the last meeting chaired by Gary, Riccardo R. Gamboa, TAC Section Head, presented him with a plaque recognizing his service to the association as Chair of the T.C. 5.9 from 1999 to 2001.
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 re-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 Atlanta were reviewed. John Klote moved that the minutes be approved, and Laszlo Emho seconded. The minutes were approved in unanimity.

5. Items of Business:

5.1 Organization: Chairman Kile reported that after this meeting, the committee leadership would be; Chair – Joe Gonzalez, Vice Chair – Paul Miclea, Secretary – Joe Grella.

Prof. Jurij Modic expressed interest to become an international member and a vote was carried out unanimously. Gary explained that he becomes an IM in winter, when the new roster will be published by ASHRAE.

2. **Liaison:** Verbal reports were presented on TC 5.1 and 5.6 meetings some members attended.

Paul Miclea reported on the 7th International Mine Ventilation Congress held in Krakow, Poland two weeks earlier and offered to provide additional information to those interested. He also reported that the 9th Mine Ventilation Symposium will be held in Kingston, Ontario, Canada on June 9 to 12, 2002.

Gary Kile informed the committee on the upcoming "Tunnel Fires and Escape from Tunnels" Conference in Gaithersburg next October, and on the PIARC conference to be held in South Africa in October 2003.

Art Bendelius informed that NFPA 502 Committee has reviewed significant changes to the standard to be approved in July. He also informed on the upcoming meeting of NFPA 130 Committee in September, in Portland, OR.

5.3 Handbook Subcommittee: Mark Colino discussed the schedule for the upcoming revision and passed out an updated "Schedule of Activities" listing all authors and the due dates for submittal. The proposal by Paul Miclea to restructure the entire chapter in a more integrated way was discussed. Due to time constraints it was agreed that only those changes that can be made within the remaining time frame should be attempted. A general introduction will be drafted by Paul, with help from Art Bendelius.

5.4 Standards Subcommittee: No report

5.5 Program Subcommittee: Since Bill Kennedy has resigned as subcommittee chair and Paul Miclea was assigned as temporary, Laszlo Emho volunteered to work as the new Program Subcommittee Chair and was approved by all voting members.

Paul Miclea summarized the discussions held in the earlier Programs Sub-committee meeting and circulated a list of activities sponsored by TC 5.9 since 1997 and so far proposed for the upcoming ASHRAE meetings. He also reported on the Seminar he chaired Monday morning on "CFD Applications for Tunnel Ventilation" which was well attended by over 30 persons. Four papers were presented by Jason Stusarczyk for Ray Sinclair, Greg Sanchez, Paul Miclea for Dan McKinney and Ghani Zigh. The fifth paper proposed by Simon Drake of AeCon/Maunsell U.K. was withdrawn. The seminar was co-sponsored by TC 5.6.

The following activities were approved for the upcoming meetings:

Atlantic City, January 2002:

- **Seminar** on using the newly developed SOLVENT CFD Code, as part of the Memorial Tunnel Fire Ventilation Test Program. Joe Gonzalez will serve as Chair.
- **Forum** on facility ventilation for CNG powered buses, addressing system design requirements, with Sudhir Agrawal as Moderator. This was not approved for Atlanta or Cincinnati.
- **Forum** on the performance of VFDs when tested with the motor. This Forum will be co-sponsored by TC 5.1 and Gary Kile will serve as moderator.

The earlier proposed Symposium on CFD Modeling Benchmark for Transit Systems was postponed for the time being.

Honolulu, June 2002:

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

A seminar and a forum for Chicago in January 2003 were discussed, in principle, with topics and presenters / authors to be decided on at a later date.

5.6 Research Subcommittee:

John Murphy reported that the only ongoing research project is the "Control of Diesel Exhaust Fumes in Enclosed Locomotive Facilities", conducted by the University of Nebraska under Prof. Dr. Amy Musser. The project started June 1, 2001 based on a contract given by ASHRAE. Dr. Musser was asked to discuss the project briefly. Steve Presser, John Murphy and Gary Kile were asked to get more involved in this project. A preliminary report was requested for the January meeting in Atlantic City.

The issue of Heat Release Rate was brought up again, and Dr. George Hadjisophocleous informed the committee that the Carleton University, in Ottawa is working on developing a scope in conjunction with Toronto Transit Commission and they intend to use the existing test facility at CU.

6. New business: None.

7. Time and place of next meeting: Tuesday January 15, 2002 in Atlantic City, NJ.

8. Adjournment: The agenda being exhausted, the meeting adjourned at 5:05 PM.

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