

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.
Georgia World Congress Center – Atlanta**

TC/TG/MTG/TRG MINUTES COVER SHEET

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

TC/TG/MTG/TRG No. TC 9.3 DATE 1/14/18

TC/TG/MTG/TRG TITLE Transportation Air Conditioning

DATE OF MEETING 1/14/18 LOCATION Atlanta, GA

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
		Donald Leblanc (Chair)	2015	
Thaddeus Rogowski (Vice Chair)	2017			
Jerome Johnston (Sec)	2015			
Lubos Forejt	2015			
Rene Beaulieu	2017			
		Kevin Glover	2015	
		David Bechtold	2004	
James Bushnell	1988			
		Larry Cummings	1992	
		Anthony Di Ioria	2017	
		Eugene Dianetti	1992	
		Scott Gwilliam	2009	
		Ken Hesser	2007	
		Catherine Thibaud	2017	
Ben Thiesse	2015			
Ken Warren	2017			
		Andreas Bezold	2015	
Aaron McFarlane	2016			

DISTRIBUTION

<i>All Members of TC/TG/MTG/TRG plus the following:</i>	
TAC Section Head: Vance Payne	SHx@ashrae.net Where x is the section number
All Committee Liaisons As Shown On TC/TG/MTG/TRG Rosters: (Research, Standards, ALI, etc.)	See ASHRAE email alias list for needed addresses.
Manager Of Research & Technical Services: Mike Vaughn	MORTS@ashrae.net

Meeting Attendance

Includes everyone that attended TC 9.3 and any of the subcommittee meetings. The GPC 23 committee meeting is incorporated into the TC 9.3 Rail Subcommittee meeting. Membership designation shown below relates only to TC 9.3 and does not reflect GPC 23 membership.

Thad Rogowski	Mitsubishi Electric	Thaddeus.rogowski@meppi.com	voting
Jerome Johnston	Boeing	jerome.i.johnston@boeing.com	voting
Lubos Forejt	Honeywell	lubos.forejt@honeywell.com	voting
Rene Beaulieu	Bombardier	rene.beaulieu@rail.bombardier.com	voting
Aaron McFarlane	Knorr-Bremse Siema	AmcFarlane@siema-HVAC.com	voting
James Bushnell	HVAC Consulting	jbushnell@roadrunner.com	voting
Ben Thiesse	American Airlines	Benjamin.thiesse@aa.com	voting
Ken Warren	Port of Seattle	warren.k@portseattle.org	voting
Richard Fox	Honeywell	rfox1956@gmail.com	non-voting
Byron Jones	Kansas State Univ.	jones@ksu.edu	non-voting
John Elson	Ford Motor	johncelo@gmail.com	non-voting
Stephen Trent	Boeing	stephen.m.trent@boeing.com	non-voting
Hugh Ferdows	SuTrak	hferdows@sutrakusa.com	guest
Dave Eneycke	Thermon Heating	Dave.Teneycke@thermon.com	guest
Bobby Buchkowsky	Thermon Heating	bobby.buchkowsky@thermon.com	guest

Call to Order & Establishment of Quorum

Meeting was called to order by Vice-Chair Thaddeus Rogowski at 4:15 p.m., January 14th 2018. Quorum was **not** established with **8 of 18 voting** members in attendance.

Membership/ Roster

Briefly reviewed roster updates. Steven Trent (Boeing) was discussed to take on the TC 9.3 Secretary position from Jerome Johnston (Boeing) who will be becoming a non-voting member.

Old Business

Approval of Houston 2018 meeting minutes discussed. In general agreement to approve the Houston 2018 minutes but did not have quorum.

Approval of RP 1262-2 is contingent on Battelle releasing project data to ASHRAE.

New Business

RAC wants to drive RP 1262-2 to closure. Battelle needs to submit final presentation by March 18th, 2019 to support the winter meeting in Orlando. Robert Cordo is the new principle investigator (PI) for Battelle.

RP 1830 went out for re-bid. Evaluated during the research subcommittee meeting. An executive meeting is required (voting members minus conflicts) to hold a vote. Executive meeting to be scheduled online due to lack of quorum.

Other committee support for Cognitair project. \$180k has been approved to support this effort. Received a memorandum of understanding from Fraunhofer, who will get their first payment soon.

Mass transit committee working on an RTAR for Fresh Air Volume.

Research Committee Report

- Battelle presented at the Houston meeting but still needs to formally submit the presentation to ASRAE and present.
- RP 1830 going went out for re-bid. Re-bid with changes to the RP, including American Airlines as a possible partner and location for testing ultrafine particles. An executive meeting is required (voting members minus conflicts) to hold a vote.
- Cognitair project was discussed. A focus is cognitive function using CO₂, Altitude and Humidity as variables.
- Mass Transit RTAR to investigate taking credit for open doors as providing fresh air ventilation.
- FACTS, Clean Sky 2 research projects were discussed

Handbook Sub-Committee

ASHRAE Handbook 2019 was published.

Automobile Subcommittee Report and Issues requiring Committee Action

Not available.

Mass Transit/Rail Sub Committee Report and Issues requiring Committee Action

Recommend revise guideline 23. Review complete, outdated references, use SI and IP units consistently, add locomotive section. Sub Committee voted in favor of putting the guideline into Continuous Maintenance.

Aviation Subcommittee Report and issues requiring Committee Action

None. No meeting.

Ship subcommittee Report and issues requiring Committee Action

None. No meeting.

Standard/ Program Report

a. Aircraft-SSPC161- Richard Fox

Approval of 3 addenda to 161 and guideline 68. To be published soon. Work on 4 new proposed addenda. June 11th SPC 161 meeting scheduled.

b. Mass Transit-GPC 23- Rene Beaulieu

See Sub Committee notes.

c. Ship-Standard 26- Kevin Glover

Drafting to go over at Kansas City meeting.

Other New Business

None.

Adjournment

Motion to adjourn. Motion seconded. 8 of 8 voting members approve. Meeting adjourned at 5:15pm.