

**TC 9.3 Transportation Air Conditioning Committee Meeting**  
**ASHRAE Annual Meeting**  
**Chicago, Illinois**  
**Palmer House Hilton, Salon 1 (3<sup>rd</sup> Floor)**  
**Monday, January 26th, 2015**  
**2:15 – 6:30 pm**

TC 9.3 Meeting Minutes

Total Attendees: 30.

3 Voting Members present of 9 Voting Members. There is not a quorum.

Paul Lebbin  
GD Mathur  
Byron Jones

Voting Members Not Present:

Chris McDaniel  
Karen Bull  
Fabio Maseo  
Ann Louise Sumner  
Bob Rebsamen  
Raymond s Ter-ionesyan

2:15 - Combined Opening by Aaron Kiehl. Chris McDaniel unable to attend. This is the first try of a combined TC9.3 with simultaneous subcommittee meetings.

Introductions – All

Aaron Kuehl-outgoing TC9.3 Research Chair  
Andreas Bezold  
Lubos Forejt  
Richard Fox  
Steven Sosa  
Jerome Johnson  
Gary Dutt  
Vlad Ciobanu  
Hugh Ferdows  
Terry Crawford  
Lowell Goudge  
Craig Berger  
Louis-David Cerise  
Peggy Bendfeldt  
Jim Bushnell  
GD Mathur  
Byron Jones

Paul Lebbin  
Mike Holland  
Rene Beidlien  
Ken Hesser  
Judith Anderson  
Karen Galanyk  
Donald Lebranc  
Dick Bruss  
Ken Shultz-  
Mike Levin  
Richard Moss  
Andreas Bezold  
Thadeus Rogonsi  
Lihue Wang  
Jeff Gatlin-Section 9 Research Liaison

Approve Meeting Minutes – Voting Members – Minutes could not be approved because there was not a quorum.

Membership & Roster – Aaron Kuehl – Will not be able to continue coming- last meeting  
Summer Roll offs- Chris McDaniel  
Need to appoint new voting Members  
Need new vice-chair  
Need new Research Chair

*Recommended Changes to Voting Members:*

*Bob Rebsamen will not be able to participate and should be removed.*

2:45 - Separate into Subcommittees  
Aviation – Gary Dutt  
Automotive - G.D. Mathur  
Rail - Ken Hesser

3:45 - Combined Subcommittee Discussions  
Jeff Gatlin provided ASHRAE Research Report from TC Liaison- new RTAR form now out. New Work Statement template coming will include gates to check progress.  
Aaron Kuehl announced this is his last meeting and the committee is looking for a new research chair.

GD Mathur-Automotive RTAR- Need long term participation. School buses are new focus.

Will leave handbook chapter “as is” for this round.

## General Committee Business

Automotive Subcommittee Report – G.D. Mathur  
Aviation Subcommittee Report – Gary Dutt  
Rail Subcommittee Report – Ken Hesser  
Journal and Communications Report – \_\_\_\_\_  
Standards Report – Paul Lebbin  
Old Business – Aaron Kuehl  
New Business – Aaron Kuehl

## Aviation Subcommittee- Discussion of research inside & outside of ASHRAE,

RP1306 Completed

RP1262-2 requested no cost extension. Planning on closing out project by Sept.

RP1603 On-going. Under review for possible termination.

2 potential research projects.

1. Ground testing methods for bleed contaminants
2. Particulate monitoring in-flight

Future meetings:

E-31-2nd week of June

## Rail Subcommittee- 11 voting members, 6 present.

Main issues: progress of guideline document

Addressing comments from public review.

Possible research- typical rail car study

Studying ways to increase air flow rate

What is the real story on ventilation rates-need RTAR.

Have energy to put program on.

Handbook section is up to date

Standards Report: Had a quorum. Reviewed comments.

Discussed continuous vs. periodic maintenance.

TNO gave ????

## Research Report- Aaron Kuehl.

Met new section Liaison.

Need new research subcommittee chair before summer conference.

State of current projects.

1262-2 requested a NCE from RAC, with new completion date estimated at July 2015

1306 - TNO provided report out to SPC161, TC 9.3 and Technical Paper Session No.5 The 9.3 Committee needs to complete disposition of research form and send to MORTS to closeout project.

RP1603-Technology Council meeting on Wednesday for final determination if project will continue or be cancelled. 40% of funding has been used to date.

Three new proposed RTARS.

1. Ground testing of bleed air - No volunteers to develop
2. In-flight particulate measurement of bleed air – Byron may develop, pending
3. Airflow per occupant requirements for rail during normal and crush loads.

ASHRAE Research working to Streamline research process and have solicited feedback by March 1. Send comments via email to Kishor Khankari or Mike Vaughn.

Handbook – Richard Fox

Handbook is in good shape. Final editor drafts out and must be reviewed and any errata identified and reported asap. The sample handbook revision schedule indicates this should be before March 15. The handbook is sent to the printer around April 1, and mailed to members around May 15.

4:45 – RP-1306 Final Report Presentation– John Havermans provided final presentation to TC9.3 committee to close out project.

6:30 Adjourned meeting