

TC/TG/TRG MINUTES COVER SHEET

TC/TG/TRG NO.: TC 5.8 DATE: 10 JULY 2000

TC/TG/TRG TITLE: INDUSTRIAL VENTILATION

DATE OF MEETING: MONDAY, 26 JUNE 2000

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
H. BAGHERI D. GHOSH G. KNUTSON W. KUMPF W. LAWTON E. LINDSAY V. PEPPERS V. SHAH T. TALBOTT	1999 1999 1996 1999 1999 1996 1996 1999 1999	V. FEDKIW (INT'L) E. RAVERT A. ZHIVOV	1999 1999 1999	G. ADAMS, V T. AXLEY, CM D. AUMANN, V A. DYCK, V J. DUREN, V E. FULLER, V K. HAGSTROM, V A. HENNI, V R. KELSO, RAC K. LINS, V A. LIVCHAK, V D. PHILLIPS, CM M. RATCLIFF, HANDBOOK R. SIKKEMA, CM G. THIEL, V A. WOODY, CM

DISTRIBUTION:

ALL MEMBERS OF TC/TG/TRG
 TECHNICAL ACTIVITIES COMMITTEE (TAC) CHAIRMAN: EDWARD B. GUT
 TAC SECTION HEAD: RICARDO R. GAMBOA

LIAISONS:

RAC Research: BRIAN J. WEBB Program: MICHAEL B. PATE
 Journal: JAMES B. CUMMINGS Handbook: MICHAEL A. RATCLIFF
 Standards: PIOTR A. DOMANSKI Standards: CLAIRE B. RAMSPECK (STAFF)
 TEGA: DAVID T. GRIMSRUD
 Research: WILLIAM W. SEATON (STAFF) Technical Services: MARTIN J. WEILAND (STAFF)

ADDITIONAL DISTRIBUTION: Corresponding Members

ASHRAE TC/TG/TRG ACTIVITIES SHEET

Date: 10 July 2000 Meeting Location: Minneapolis, MN
 TC/TG/TRG No.: TC 5.8 TC/TG/TRG Title: Industrial Ventilation
 Chairman: Wayne Lawton Vice Chairman: Hank Bagheri Secretary: Todd Talbott

TC/TG/TRG MEETING SCHEDULE				
Location: Past 12 months/Date		Location: Planned next 12 months/Date		
Dallas, TX	6 February 2000	Atlanta, GA	January 2001	
Minneapolis, MN	26 June 2000	Cincinnati, OH	June 2001	
TC/TG/TRG SUBCOMMITTEES				
Function		Chair		
Membership		D. Ghosh		
Program		V. Shah		
Handbook		H. Bagheri		
Standards		D. Ghosh		
Research		Y. Chen		
Displacement Ventilation		T. Talbott		
Journal		P. Gupton		
Current Research Titles		Contractor	PMS Chair	Reports
983-TRP Design Approaches to Industrial Ventilation		Voted to forward to RAC at this meeting	Lawton	WS
Long Range Research Plan				
Rank	Title	WS Author	Approved	To R&T
1	1174-WS, Ventilation Systems and Indoor Air Quality in Ice Skating Rinks	Yes	Yes	No
2	WS - The Design of Displacement Ventilation Systems within Industrial Facilities	Yes	No	No
3	RTAR - Airflow Pattern and Open Structure Infiltration Analysis of Large Industrial Facilities	Yes	No	No

HANDBOOK RESPONSIBILITIES				
Year/Volume	Chapter	Title	Deadline	Sub Chair
2003 HVAC Applications	28	Ventilation of the Industrial Environment	Atlantic City 2002	
2003 HVAC Applications	29	Industrial Local Exhaust Systems	Atlantic City 2002	
STANDARDS ACTIVITIES				
None				
TECHNICAL PAPERS from sponsored Research (past 3 years, present and planned)				
None				
TC/TG Sponsored Symposia (past 3 years, present and planned)				
Displacement Ventilation			Atlantic City 2002	
TC/TG Sponsored Seminars (past 3 years, present and planned)				
Case Studies on Industrial Ventilation Projects Displacement Ventilation Oil Mist Removal Systems			Toronto 1998 Dallas 2000 Atlanta 2001	
TC/TG Sponsored Forums				
Displacement Ventilation Systems-What is it and Where is it Used? New Proposed Industrial Particulate Levels and Wet Machining Oil Mist in the Industrial Environment. Does ASHRAE Need a Self-Study Course in Industrial Ventilation?			Chicago 1999 Minneapolis 2000 Atlanta 2001	
JOURNAL PUBLICATIONS (past 3 years, present and planned)				
None				

Submitted by: _____

Todd A. Talbott

**ASHRAE MEETING MINUTES
TC 5.8 INDUSTRIAL VENTILATION
Minneapolis, MN
26 JUNE 2000**

CALL TO ORDER:

Chairman Wayne Lawton called the meeting to order at 4:20 p.m..

INTRODUCTION:

All individuals present were asked to introduce themselves noting membership status and company affiliation. Initially eight (8) of twelve (12) voting members were present at the beginning of the meeting thus constituting a quorum in which to conduct business. A ninth member joined later.

SECTION HEAD/CHAIRMAN REPORT:

- Journal: Industrial Ventilation is featured for April 2000. Looking for papers from TC members .
Contact Fred Turner
- Programs: Atlanta session packets need to be in to ASHRAE HQ by October.
- Web Pages: ASHRAE HQ requesting meeting minutes as a minimum be installed on Website
Webmaster Vernon Peppers indicated TC 5.8 website is up and running under
ashraeTC58.bizland.com.
- Conferences: CLIMA 2000, DUBLIN 2000. Pamphlets distributed for perusal.
- ASHRAE Learning Institute (ALI): Formal Seminars available at all meetings.
- Technical Activity Award: Send up to 5 recommendations in to Ricardo Gamboa TAC Section Head.

MINUTES :

Vit Shah motioned that the minutes of the 7 February 20009 meeting in Dallas, TX be approved, Bill Kumpf seconded. **Motion passed 8/0/0/4/12.**

MEMBERSHIP:

Wayne Lawton asked that everyone include their current e-mail address on the attendance list in order to improve distribution of information, specifically meeting minutes and letter ballots.
There were 25 people in attendance (9 M, 4 CM, 12 V). Yan Chen (CM), Tom Axley (CM) and George Adams (V) rotate on after this meeting to replace Vernon Peppers, Gerhard Knutson and Eugene Lindsay who will role off to corresponding members.

The following visitors asked to come on as corresponding members in Dallas; Jeff Duren of DuPont, Arsen Melikov of Tech University, Denmark and Walter Schwarz of Fluent, Inc. and the following visitors

from this meeting; Don Aumann of Lawrence Berkeley Nat'l Lab, Ed Fuller of DuPont, Kim Hagstrom of OY Halton, Keith Lins of Hartzell Fan, Andrey Livchak of Halton and Gregory Thiel of Thiel Consulting.

PROGRAM:

Vitthal Shah

Minneapolis - June 2000

Forum: New Proposed OSHA Industrial Particulate Levels and Wet Machining Oil Mist in the Industrial Environment. (Lawton)

Atlanta - January 2001:

Forum: Does ASHRAE Need a Self-Study Course in Industrial Ventilation? (Lawton)

Seminar: Oil Mist Removal (Lawton)

Atlantic City - January 2002:

Symposium: Displacement Ventilation Systems in the Industrial Environment *ACTION: Yan Chen, Vladimir Fedkiw, Andrey Livchak, Duncan Phillips and possibly representative of TROX are asked to submit papers for public review ASAP.* (Talbot)

HANDBOOK:

Hank Bagheri

Christina Tate (ASHRAE) stated that Chapters 28 and 29 of the Applications Handbook are considered user unfriendly and require major rewrites. Also, references used in those chapters are not on file at ASHRAE HQ and contain copyrighted pictures (A. Zhivov) requiring legal documentation for use. Issues of concern range from non-convergence of equations to lack of information in any handbook chapter in making density corrections.

Mike Ratcliff ASHRAE Handbook Liaison recommends TC 5.8 establish a Handbook Subcommittee to address these issues. Wayne Lawton suggested that an informal meeting time be established due to scheduling conflicts. G. Adams, H. Bagheri, J. Friedman, W. Lawton and A. Woody volunteered to serve on the Handbook Subcommittee.

STANDARDS:

Deep Ghosh

SSPC 15 Safety Code for Mechanical Refrigeration (Lawton)

A formula for ventilating refrigeration equipment exists that is of unknown origin. Bill Kumpf stated that the equation was probably generated by the Mechanical Code or the Ammonia Refrigeration Institute and was more adequately addressed by TC 10.1 Custom Engineered Refrigeration Systems than TC 5.8 Industrial Ventilation. The committee recommended that W. Lawton write a letter to the TC 10.1 chairman noting our concern of the equations origin and applicability.

SPC110R "Performance Testing of Laboratory Fume Hoods" (Knutson)
No report

SSPC 62.1 “Indoor Air Quality”

The standard presently applies to all enclosed facilities, including industrial. ASHRAE Standards Committee liaisons indicated that the original scope included the reference by mistake and that they were submitting a revision to the standard via letter ballot to have the reference to industrial facilities removed. A copy of the original and amended versions were distributed for our information. The Standards Committee liaisons suggested that our TC submit a request for IAQ emphasis in industrial facilities be added and that we elect a liaison to attend Standard 62.1 meetings. Tom Axley volunteered to serve as liaison. Vernon Peppers motioned, Bill Kumpf seconded.

Passed 8/0/0/4/12

Motion

RESEARCH:

Yan Chen

858 RP “*Jet-Assisted Hoods*”

(Knutson)

Project no longer appears on Bill Seatons list of projects. Gerhard Knutson motioned that the project be dropped from the Research Plan, Bill Kumpf seconded.

Motion Passed 9/0/0/3/12

983-TRP “*Design Approaches to Industrial Ventilation*”

Non-members were asked to leave the room as the TC went into Executive Session to hear and discuss the PMS recommendation for contractor. Bill Kumpf motioned TC acceptance of the PMS recommendation for contractor for submittal to RAC, Deep Ghosh seconded,

Motion Passed 9/0/0/3/12

1031-WS “*Local Exhaust Design Guides*”

(Lawton)

RAC says to put on hold or terminate. Due to 983-TRP and the handbook rewrites, it was suggested that we consider termination of this WS. Bill Kumpf motioned for termination of 1031-WS from the Research Plan, Hank Bagheri seconded.

Motion Passed 9/0/0/3/12

1174 WS “*Ventilation Systems and Indoor Air Quality in Ice Skating Rink Spaces*” (Chen)

Research Subcommittee recommended TC approval of revised WS as reviewed by RAC and that George Adams serve as TC 5.8 liaison to the TC 10.2 PMS. Gerhard Knutson motioned for TC approval of WS, Vit Shah seconded,

Motion Passed 8/0/1/3/12

Gerhard Knutson motioned that George Adams serve as TC 5.8 liaison to the TC 10.2 PMS, Eugene Lindsay seconded,

Motion Passed 9/0/0/3/12

WS - Displacement Ventilation Systems Within Industrial Facilities (Phillips)

The Displacement Ventilation Subcommittee presented recommendations to the TC to have Duncan Phillips again revise the WS by shortening the background and expanding on the justification. Keep in mind that RAC approved the RTAR. The revised WS will be voted on at the Atlanta Meeting 28 January 2001.

RTAR - Airflow Pattern and Open Structure Infiltration Analysis of Large Industrial Facilities (Axley)

The RTAR is to be revised and submitted to TC 5.8 and 9.2 membership for a vote by letter ballot on or before 1 August.

WS - Airflow Measurement of Biological Safety Cabinets (Knutson)

Gerhard Knutson explained the need for research and the desire to add it to the NFS Standard 49. TC 9.10 Laboratory Systems is the sponsor and is seeking TC 5.8 endorsement and acceptance of the WS as presented to the voting members at this meeting. Bill Kumpf motioned TC 5.8 endorsement of the WS as written with Gerhard Knutson to serve as TC 5.8 Liaison to the TC 9.10 PMS. Deep Ghosh seconded,

Motion Passed 9/0/0/3/12

Research Plan (Chen)

Vernon Peppers motioned TC approval of the following Research Plan for submittal to RAC, Deep Ghosh seconded,

Motion Passed 7/0/1/4/12

Rank	Title	WS Author
1	1174 WS Ventilation...Ice Rinks	Yan Chen
2	WS - Displacement Ventilation ...	Duncan Phillips
3	RTAR Airflow... Industrial Facilities	Tom Axley

ADJOURN: 6:30pm