

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

TC/TG/TRG NO.: TC 5.8 DATE: 23 JULY 2001  
 TC/TG/TRG TITLE: INDUSTRIAL VENTILATION

DATE OF MEETING: MONDAY, 25 JUNE 2001

MEMBERS PRESENT	YEAR APPT	MEMBERS ABSENT	YEAR APPT	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
G. ADAMS H. BAGHERI Y. CHEN V. FEDKIW (INT'L) W. KUMPF W. LAWTON T. TALBOTT A. ZHIVOV	00 (04) 99 (01) 00 (04) 99 (03) 99 (03) 99 (01) 01 (03) 99 (01)	T. AXLEY C. JOPPOLO (INT'L) D. GHOSH E. RAVERT V. SHAH	00 (04) 00 (04) 99 (03) 99 (03) 99 (03)	R. BAGWELL, V C. BECKER, V B. BLACKMORE, V M. CONNER, V R. EVANS, V E. FULLER, V G. KNUTSON, CM A. LIVCHAK, V V. PEPPERS, CM A. PEVSILY(?), V (NIST) B. PHILLIPS, V W. SCHWARZ, V J. VANGILDER, 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: TIMOTHY J. MCGINN  
 Journal: KIMBELL E. FERGUSON Handbook: MICHAEL A. RATCLIFF  
 Standards: DAVOR NOVOSEL Standards: CLAIRE B. RAMSPECK (STAFF)  
 TEGA: KENNETH BAILEY  
 Research: WILLIAM W. SEATON (STAFF) Technical Services: MARTIN J. WEILAND (STAFF)

ADDITIONAL DISTRIBUTION: Corresponding Members

**ASHRAE TC/TG/TRG ACTIVITIES SHEET**

Date: 25 June 2001 Meeting Location: Cincinnati, OH  
 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		
Atlanta, GA Cincinnati, OH	January 2001 June 2001	Atlantic City, NJ Honolulu, HI	January 2002 June 2002	
TC/TG/TRG SUBCOMMITTEES				
Function		Chair		
Membership Program Handbook Standards Research Displacement Ventilation Journal Web Master		D. Ghosh V. Shah H. Bagheri D. Ghosh Y. Chen T. Talbott P. Gupton V. Fedkiw		
Current Research Titles		Contractor	PMS Chair	Reports
983-TRP Design Approaches to Industrial Ventilation		Intermountain Research	Lawton	WS
Long Range Research Plan				
Rank	Title	WS Author	Approved	To R&T
1	WS - The Design of Displacement Ventilation Systems within Industrial Facilities	Yes	No	No
2	RTAR - Airflow Pattern and Open Structure Infiltration Analysis of Large Industrial Facilities	Yes	No	No
3	RTAR - Energy Conservation in Industrial Ventilation Systems	No	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				
ASHRAE Standard 62.1 - Should industrial ventilation be added or stand alone?				
TECHNICAL PAPERS from sponsored Research (past 3 years, present and planned)				
None				
TC/TG Sponsored Symposia (past 3 years, present and planned)				
Displacement Ventilation in the Industrial Environment			Chicago 2003	
TC/TG Sponsored Seminars (past 3 years, present and planned)				
Case Studies on Industrial Ventilation Projects Displacement Ventilation Oil Mist Removal Systems (Cosponsor) Displacement Ventilation Safety Considerations in Designing and Installing Air Pollution Devices (Cosponsor) Air-to-Air Energy Recovery and Displacement Ventilation (Cosponsor) Industrial Ventilation in the Automotive Environment - Part 2			Toronto 1998 Dallas 2000 Atlanta 2001 Atlantic City 2002 Atlantic City 2002  Hawaii 2002 Chicago 2003	
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? Is There A Need for a Separate ASHRAE IAQ Standard 62 for Industrial Air Spaces Should You Recirculate Air From Industrial Air Cleaners? (Cosponsor)			Chicago 1999 Minneapolis 2000  Atlanta 2001 Atlantic City 2002  Atlantic City 2002	
JOURNAL PUBLICATIONS (past 3 years, present and planned)				
None				

Submitted by: \_\_\_\_\_

Todd A. Talbott

**ASHRAE MEETING MINUTES  
TC 5.8 INDUSTRIAL VENTILATION  
CINCINNATI, OH 25 JUNE 2001**

**CALL TO ORDER:**

**Lawton**

**INTRODUCTION:**

**Lawton**

Initially seven (7) of thirteen (13) members were present constituting a quorum. An eighth member joined us later in the proceedings.

**SECTION HEAD/CHAIRMAN REPORT:**

**Lawton**

- Spent a good deal of time discussing whether or not ASHRAE should offer Short and/or Self Study Courses on Industrial Ventilation. It was determined that there was a minimal interest in ASHRAE providing such a course and that the Jeff Burton, Michigan, North Carolina and UNLV courses appear to meet the current needs of the industry. A TC 5.8 straw poll resulted in one individual feeling an ASHRAE course to be beneficial and three that it would not. Wayne Lawton to inform ASHRAE HQ that TC 5.8 does not feel that an ASHRAE course should be developed at this time.
- ASHRAE forwarded a research topic regarding Moisture Management in Industrial Buildings for TC 5.8 consideration of sponsorship. The committee advised that the topic in question fell under TC 9.2
- Technical Achievement Award: Wayne Lawton nominated Gerry Knutson. Al Woody volunteered to submit the write-up. Wayne Lawton to request written endorsements from TC 5.3 and 5.4 Chairman.
- ASHRAE interested in the professional mix of TC's. TC 5.8 has active participation of engineers, manufacturers, government, academic and international. (We're fortunate!)

**MINUTES:**

**Talbott**

Bill Kumpf indicated that the members for the Handbook staff were known by Hank Bagheri and that the "(check Hank for names)" should be removed from the Atlanta January 2001 minutes. H. Bagheri seconded.

**Motion passed 7/0/0/5/12**

**MEMBERSHIP:**

**Lawton**

New Committee Roster takes effect immediately following this meeting. Vice Chairman Hank Bagheri request for a one year extension before taking on the Chair position is duly noted in that Wayne Lawton is noted as chair through June 2002. Al Woody needs to be added as Corresponding Member.

**PROGRAM:** *Vit Shah resigned, Al Woody volunteered to resume as chair* **Lawton**

Cincinnati - June 2001:

Seminar: *Industrial Ventilation in the Automotive Environment, Part 1* (Zhivov)

TC 9.2 Seminar: *Fuel Fired Power Plant Ventilation* (Cosponsor)

Atlantic City - January 2002 (in order of preference):

Forum: *Is There A Need for A Separate ASHRAE 62 IAQ Standard For Industrial Air Spaces?* (TC 9.2, SSPC 62.1 Cosponsor) (Lawton)

Seminar: *Displacement Ventilation Systems in the Industrial Environment* (Talbot)

TC 5.4 Forum: *Should You Recirculate Exhaust Air From Industrial Air Cleaners?* (Cosponsor)

TC 5.4 Seminar: *Safety Considerations in Designing and Installing Air Pollution Devices* (Cosponsor)

Hawaii - June 2002

TC 5.5 Seminar: *Air-to-Air Energy Recovery and Displacement Ventilation* (Cosponsor)

Chicago - January 2003

Seminar: *Industrial Ventilation in the Automotive Environment, Part 2* (Zhivov)

Symposium: *Displacement Ventilation in the Industrial Environment* (Talbot)

**HANDBOOK:**

**Bagheri**

The reviews for Chapters 28 and 29 need to be in to ASHRAE HQ January 2002  
Al Woody is the only individual to date to submit remarks. ASHRAE policy requires (but in many cases never receives) materials referenced in the handbooks to be in the archives before information can be printed in the handbooks. Bill Stewart, PI for 983-RP was requested by the PMS to focus his research on information presented in these chapters to verify the equations and develop examples that assist in the use of the equations for designers interested in designing ventilation systems referenced within the handbook chapters. Mr. Stewart informed the PMS he had requested but not yet received the documents in questions from Alex Zhivov. Alex again stated he'd be more than happy to pick-up the reference documents in Russia if the TC provided a listing of the documents in question and arranged for the monies to pay for them. There was much discussion on whether whole documents were required, if library books had to be in ASHRAE's possession. Hank Bagheri is to checkout copyright issues regarding partial document copying. Bill Stewart is to submit a formal listing of documents referenced in the handbook chapters. Alex is to sign a patent release for the use of figures already present in the handbook.

**STANDARDS:**

SSPC 15 "Safety Code for Mechanical Refrigeration" (Lawton)

**ACTION: Wayne Lawton to send letter to TC 10.1 before the Atlantic City meeting noting our concern of the ventilation equation origin and applicability.**

SPC 110R "Performance Testing of Laboratory Fume Hoods" - No report (Knutson)

SSPC 62.1 "Indoor Air Quality" - Forum planned for Atlantic City (Axley)

**RESEARCH:**

**Chen**

983-TRP Design Approaches to Industrial Ventilation - In progress (Lawton)

1174-S Ventilation Systems and Indoor Air Quality in Ice Skating Rinks (Chen)

TC 10.2 does not wish to sponsor this project. Y. Chen motioned the project be terminated. G Adams seconded. **Motion passed 8/0/0/4/12**

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

NO PROGRESS

WS Airflow Measurement of Biological Safety Cabinets (Knutson)

