



Shaping Tomorrow's
Built Environment Today

ASHRAE TC 9.2 – Industrial Air Conditioning and Ventilation Committee

February 3, 2026, 1 – 3 pm PST

Las Vegas, NV – Caesars Palace, Room Octavius 23 (Promenade South Level)

Minutes - DRAFT

1) Call to Order and Opening Remarks Jensen

2) TC 9.2 Committee Scope Jensen

Technical Committee 9.2 is concerned with the environment that supports reliable operation of manufacturing and industrial processes and equipment, and strives to ensure the safety of personnel working in industrial facilities.

It provides guidance and recommendations regarding the design, installation, operation and maintenance of heating, air conditioning, supply and exhaust ventilation, pressurization and air filtration systems where harmful chemical, physical, nuclear, biological contaminants or hazardous atmospheres have an increased potential to exist.

3) ASHRAE Value Statement Jensen

In ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and shall avoid all real or perceived conflicts of interest. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We celebrate diverse and inclusive communities, understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and the communities our Society serves. We respect and welcome all.

4) Self Introduction of Members and Guests All

Attendees				
Name		email	Location	Company
Mark	Miller	mfmiller55@gmail.com	In person	Self
Eileen	Jensen	nesnejen@gmail.com	In person	Self
Kevin	Marple	kmarple@benzco.com	In person	Benz Air Co.
Duncan	Phyfe	dphyfe@verdantas.com	In person	Verdantas
Erik	Ostberg	erik.ostberg@bp.com	In person	bp
Geoff	Raifsnider	graifsnider@globalfinishing.com	In person	GFS
Garret	Lawler	garret.lawler20@gmail.com	In person	MEPCE
Bill	Lampkin	bill.lampkin@greenheck.com	In person	Greenheck
Spencer	Phillips	jsnphillips@gmail.com	In person	MSU



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John	Wilson	wilson@icet.msstate.edu	In person	MSU
Shawn	Ohara	sohara@smacna.org	In person	SMACNA
Geoff	Parks	gparks@smacna.org	In person	SMACNA
John	Martin	martin@verdantis.com	In person	Verdantas
Erny	Martin	emartin@verdantas.com	In person	Verdantas
Mathew	Quitadamo	mquitadamo@verdantas.com	In person	Verdantas
Mark	Baker	Mark.r.baker@effem.com	In person	Mars Wrigley
Alok	Kumar	akumar@nika-solutions.com	In person	NIKA
Matt	Archev	matt_archev@campbells.com	In person	Campbell's Co
Fraser	Campbell	Fraser.campbell@halton.com	In person	Halton
Yecan	Zhou	Joel_chaou@yeah.net	In person	GREE
Mingxza	Hu	Mingxiah1985@126.com	In person	GREE
Shaun	Nienhueser	shaun.nienhueser@hdrinc.com	Remote	HDR
Vimaldoss	Jesudhas	vimaldoss.jesudhas@rwdi.com	Remote	RWDI
Scott	MacMurray	jscottmacmeng@gmail.com	Remote	Savannah River Nuclear
Moniruzzaman	Bapari	polin.ndc@gmail.com	Remote	Pro CM
Kai	Han	kai.dh.han@gmail.com	Remote	Savannah River Nuclear
Evan	Reese	emreese@burnsmcd.com	Remote	Burns & McDonnell
Erich	Binder	ebcl@shaw.ca	Remote	EBC
Zara	Sardouee	zaha.sardouei@gmail.com	Remote	Self
Carlos	Gonzalez	cmanuelgj@gmail.com	Remote	Self

5) Hybrid Meeting:

All

[Join meeting now](#)

Hybrid Meeting	Meeting Sign-in Sheet
Meeting ID: 263 743 400 367 38 Passcode: Kq2wV9um	



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6) Review of Agenda Jensen

7) Quorum Status Determination of Meeting Quorum Jensen

TC Voting Member	Attendance
Eileen Jensen	Yes. In person.
Mark Miller	Yes. In person.
Duncan Phyfe	Yes. In person.
Erich Binder	Yes. Remote.
Deep Ghosh	No
Shaun Neinhueser	Yes. Remote.
Les Pereira	Yes. Remote.

8) Approval of Annual Meeting Minutes for 2025 Pheonix Summer Meeting Jensen
Moved to approve. (6-0-0-1) Chair voting.

9) Membership *Kevin Marple report*

Discussion and potential motion for additional term for Chair position

- *Motion: TC 9.2 recommends to the TAC Chair that the current chair of TC9.2 be appointed for an additional term.*
 - *Moved to approve by Duncan, second by Erich. (5-0-1-1) Chair not voting.*

Roster Upgrades:

- Voting members rolling off in 2026
 - *No voting members rolling off in 2026.*
- Provisional Member Status upgraded to corresponding members
 - *7 PCM expiring 2026.*
 - *17 PCM will expire in 2027.*
 - *4 PCM will expire in 2028.*
 - *91 Corresponding members.*
- Corresponding members upgraded to voting members
 - *Nathan Zeigler for 2026.*
 - *Bill Lampkin for 2026.*



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- *Kevin Marple for 2026.*

YEA members outreach - [ASHRAE Connect](#)

- *No report.*

10) TC Chair Breakfast Meeting

Miller

- *DEI Diversity, Equity & Inclusion*
 - *How do we make people welcome (as a society and a community)?*
- *Roster updates are needed*
- *Special Committee report*
 - *ASHRAE conducted research, Corey Metzger, \$100-300K per initiative.*
 - *ASHRAE has more \$ than research projects.*
 - *Encouraging TC's to submit research initiatives.*
- *International standards for collaboration*
- *CEC Conference & Exposition Committee*
 - *175 submission & programs.*
 - *85 moved forward.*
 - *Austin Summer June 2026 > Deadline for submission March 6.*
 - *Chicago Winter Jan 2027.*
 - *Attempting to reduce number of meetings and rooms.*
 - *For Austin 2026; All subcommittee mtgs online beforehand.*
- *Government Affairs*
 - *Monitoring 4,000 bills.*
 - *186 different outreaches by ASHRAE.*
- *TAC training available*
- *Handbooks*
 - *Refrigeration is large, will be moving some chapters to other handbooks.*

11) Section Head Report

Muldoon

- *Not present, no report.*

12) Status of TC 9.2 Events & Activities

- *ASME CONAGT Design Guide and NHUG (Nuclear)* MacMurray
 - *Alok Kumar akumar@nika-solutions.com was asking about SMR technology info*
 - *Eileen will connect Alok with Deep Gosh/Scott MacMurray/Tom Axley for further help.*
- *Cold Climate Design Guide (3rd Ed.)* Binder



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- TC9.8 leads effort.
- Rollout Summer 2026.
- Special publications
 - ASHRAE guide for HVAC in Hazardous Spaces
 - To be reviewed in 2026.
 - Eileen will contact Mike Baucom about leading this.
 - Can be downloaded for free at [Haz Area HVAC](#).
 - Nuclear
 - To be reviewed in 2028.
 -

13) ASHRAE Handbook – Applications

Reese

- Status of chapters under review
 - Members discussed chapter and who the author (responsible) TC member is.
 - Reviewers were assigned to chapters.
 - Proposed chapters need to be reevaluated for 1) need and 2) can they be combined.
 - Chapter summary spreadsheet attached at end of minutes. Excel file uploaded to TC9.02 Base Camp.
 - Estimated minimum review period = 4 weeks (2 weeks for comments, 1 week to respond, 1 week for voting).
 - **ACTION:** Ch. 22, 29 and 30 are ready to send out for review/respond/vote.
 - Chapters due in April:

Number	Title	Due Date	Name
22	Textile Processing Plants	4/1/2026	Eileen Jensen Bapari *last name*
27	Air Conditioning of Wood and Paper Facilities	4/15/2026	Kevin Marple
28	Power Plants	4/26/2026	Eileen Jensen Deep Ghosh
29	Nuclear Facilities	4/29/2026	Scott MacMurray
30	Mine AC and Ventilation	4/5/2026	Erich Binder
31	Industrial Drying systems	4/12/2026	Matt Quitadamo Duncan Phye
32	Ventilation of the Industrial Environment	4/19/2026	Evan Reese (Tentative) Garrett Lawler



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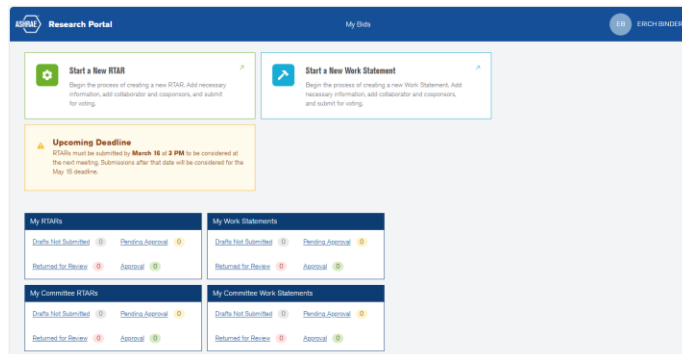
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14) Research Projects Binder

1. New RTAR (*Research Topic Acceptance Request*) process

- <https://app.ashrae-research.com/login>
- *New The Research Portal is up and we are encouraging TCs to use for new RTARs. You should see your initials in top right corner when you log in, not the User Name.*



- *Binder will set up meeting to discuss potential research topics from TC9.2.*
 - *Previous topics were Heat rejection from electrical equipment (Jensen).*
- *Can combine research with other industries (e.g. ACGIH).*

2. MTG.ACR / CO-RP-8: ASHRAE research Project 1936-RP - Evaluation of relative impact of air change rate (ACR) and airflow patterns on the ventilation performance of indoor spaces is now established. Prof. Shichao Liu from Worcester Polytechnic Institute is the Principal Investigator on this project. We hope to see valuable findings from this research. We will keep you informed as we make progress on the project.

MTG.ACR Research Progress Report

Evaluation of relative impact of air change rate (ACR) and airflow patterns on the ventilation performance of indoor spaces

Principal Investigator: Prof. Shichao Liu, Worcester Polytechnic Institute

Accomplishment (Oct. 2025 – Jan. 2026)

- Set up a structured literature-review workflow (Scopus keyword query + ASHRAE reports; bottom-up paper summaries + top-down question-driven synthesis).
- Built review infrastructure: created a paper list, a "questions to answer" document, and a QA-style literature table to track evidence against review questions.
- Completed an initial batch of literature summaries (~50 papers reviewed/summarized by Jan.) and set targets for expanding the database.
- Advanced CFD validation by defining a 4-case validation plan and executing progress through three cases (including mesh sensitivity / GCI and RMSE-based comparisons).
- Designed and initiated small-chamber pilot testing (shoe-box / small chamber concept with three-cone square diffuser; smoke visualization + air-speed measurement plan).
- Started experimental data processing + CFD setup for the small chamber: began smoke-visualization velocity estimation using PIVlab, improved the laser sheet setup, and started CFD modeling (RNG k- ϵ ; ACH=3 and 6) while noting geometry differences and the need to reconstruct the diffuser model (manual measurement and plan for 3D scanning).

Plan for next three months (Jan.2026 – Apr. 2026)

- Finish the literature-review deliverables: complete the expanded literature database and write the first draft of the literature review report/chapter.
- Complete remaining CFD validation cases with strict quality control before launching systematic simulations (continue using GCI/RMSE practices).
- Finalize small-chamber readiness for non-isothermal operation and complete the experimental setup upgrades needed to start consistent data collection.
- Pilot-test and characterize the three-cone diffuser in the chamber, then simulate the same configuration for direct CFD-experiment comparisons.
- Tighten the diffuser geometry/model fidelity (reconstruct 3D model; move from manual measurement toward 3D laser scanning where needed).
- Improve flow conditioning in ducting (e.g., add honeycomb flow straighteners based on what smoke visualization revealed) to stabilize boundary conditions for both CFD and experiments.
- Begin routine "collect + compare" cycles: start collecting repeatable small-chamber datasets and comparing them against the CFD outputs (so we can lock the modeling approach before scaling up the test matrix).

3. *Current list of Research Projects is 46 in Total.*

<https://technologyportal.ashrae.org/Report#page-1>



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4. TC 5.4: Rating on Filter Banks & Oil Mist Research - Kevin Marple
5. If anyone has any possible projects, Please let Erich Binder know and he will assist in the RTAR Process.

Did You Know??

- ASHRAE currently has 46 active research projects.
- Since 1959, ASHRAE has sponsored over 975 projects for a total cost of about \$87.3M
- ASHRAE members have **FREE** access to **ALL** research project final reports
- ASHRAE provides its members with **FREE** digital downloads of all four Handbooks, which are the largest beneficiaries of ASHRAE research results.
- All this is on [ASHRAE.org](https://www.ashrae.org), just click on RESEARCH
- ASHRAE also provides other forms of research grants and awards such as [Graduate Student Grant-in-Aid award](#); [New Investigator Award](#); [Innovative Research Grant](#), etc.




6.

- | | | |
|-----|--|---|
| 15) | Standards <ul style="list-style-type: none"> Update on Standard 128 <ul style="list-style-type: none"> <i>Std 128 has been reviewed internally, waiting for Standards committee to approve the revised draft to go for public review.</i> IEEE 1635/ASHRAE Guideline 21 Update <ul style="list-style-type: none"> <i>Status quo – no action.</i> ISO 15138 <ul style="list-style-type: none"> <i>Developing guide/specification for Oil, Gas & New Energy HVAC design.</i> <i>Looking for review from ASHRAE / TC 9.2, Austin 2026-time frame.</i> <i>Connect with GTIC – Steve Bushby.</i> ISO for Blast Damper Performance Testing <ul style="list-style-type: none"> <i>New committee formed for developing standard for blast damper testing.</i> <i>Led by Halton Flamgard (UK) (Lee Bramold).</i> <i>BakerRisk involved.</i> <i>Connect Bill Lampkin (Greenheck) with this effort.</i> | Jensen/Ostberg

<i>Jensen</i>

<i>Jensen</i>

Ostberg

Ostberg |
| 16) | Program Sub Committee <ul style="list-style-type: none"> TC 9.2 sponsored Presentations in Las Vegas <ul style="list-style-type: none"> <i>Industrial Forensics</i> | Phyfe/Binder

Phyfe |



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Type	Title	Chair	Speakers
<i>Seminar</i>	<i>Industrial Forensics Track: Indoor Environmental Quality for Healthy Buildings 145 Attendees</i>	<i>Kevin Marple</i>	<i>Tom Axley Duncan Phyfe Erich Binder John Martin</i>

- Las Vegas Programs**

Submission Type	Proposals Submitted	Proposals Scheduled
Panel Sessions	19	6
For Saved to this PC	9	6
Seminar Sessions	131	65
Workshop Sessions	7	4
Debate Sessions	9	4
Total	175	85
<i>Total with Paper Sessions</i>		121

- Austin Summer 2026 – TC 9.2 Possible Submissions:**

Phyfe

Type	Title	Chair	Speakers
<i>Workshop</i>	<i>Guideline 21</i>	<i>Deep Gosh</i>	
<i>Seminar</i>	<i>HVAC Industrial Ventilation 101. IH/Vent 101 - Could be made into a series of seminar/presentations</i>	<i>Duncan Phyfe</i>	<i>Erich B / Erik O John M/ George G</i>
<i>Forum</i>	<i>TC 7.1 Int. Design / Process Loads & HVAC - Marianna Vallejo, Contact</i>		<i>Binder coordinating</i>



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Key Dates – Austin

Wednesday, Jan. 7, 2026 | Website Opens for Extended Abstracts and Seminar, Workshop, Forum, Debate, and Panel Proposals

Wednesday, Feb 25, 2026 | Debate, Panel, Seminar, Forum, Workshop, and Debate Proposals Due

Wednesday, Feb 25, 2026 | Conference Papers Due

Wednesday, March 25, 2026 | Conference Paper Accept/Revise/Reject Notifications

Thursday, April 2, 2026 | Debate, Panel, Seminar, Forum, Workshop Scheduling Notifications

Wednesday, April 8, 2025 | Revised Conference Papers Due

Wednesday, April 22, 2025 | Conference Paper Final Accept/Reject Notifications



- *Austin Summer 2026 – Tracks:*
 - *Fundamentals and Applications*
 - *HVAC&R Systems and Equipment*
 - *Research Summit*
 - *Workforce Development*
 - *Ground Source Heat Pumps*
 - *Hot Climate Building System Design, Operation and Resilience*
 - *AI in Building Design and Construction*
 - *Building Decarbonization*
- *Chicago Winter 2027 – Tentative Tracks:*
 - *Fundamentals and Applications*
 - *HVAC&R Systems and Equipment*
 - *Research Summit*
 - *Refrigeration and Refrigerants*
 - *Residential HVAC Research*
 - *Thermal Network Systems*
 - *Nexus of Real and Artificial Intelligence Decarbonization Retrofits*

Type	Title	Chair	Speakers
Seminar	Cold Climate Design Guide	Erich Binder	

-
- Upcoming conference programs info Phyfe



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2026 Women in ASHRAE Leadership Symposium

- August 13-14, 2026 – Los Angeles, CA

Fourth ASHRAE Developing Economies Conference

- April 24-25, 2026 – Varanasi (Kashi), Uttar Pradesh

2026 ASHRAE Building Decarbonization Conference

- September 23-25, 2026 – Seattle, WA

Ninth International Conference on Energy Research and Development (ICERD – 9)

- November 16-18, 2026 – Kuwait University City, Kuwait

The Seventh International Conference on Efficient Building Design

- October 8 – 9, 2026 – Beirut, Lebanon

-
- *Greek Hospital engineering event HYGEIA 2026 – Binder has info if interested.*

- Vent 2022 Special Publication Industrial HVAC Binder
 - *No report.*
- 14th Industrial Ventilation conference Binder
 - *No report.*

- 17) New Business Jensen
- *No report.*
 - a. What do members and participants want from TC9.2?
 - b. TC9.2 Scope discussion – does this need a refresh?

- 18) Honors & Awards Jensen
- *No report.*

- 19) Webmaster Nienhueser
- [Index | ASHRAE 9.2 Industrial Air Conditioning and Ventilation](#)
- *No report.*

20)

21) Liaisons Reports

MTG Hot Climate	Duane Hammond
TC 2.10 Resilience	Steven Still
MTG Cold Climate	Erich Binder
MTG ACR	Erich Binder
CTTC	Erich Binder
MTG-UNEP – RAC:	Erich Binder



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<i>Project Completed. See research project report.</i>	
Standard 90.1	Mike Baucom
Decarbonization Task Force	Need to establish liaisons
MTG.GAI / AI Focused	<i>Open position</i>
MTG OBB	<i>Open position</i>
MTG Cyber Security	<i>Open position</i>
MTG Effective Building Operation	<i>Open position</i>
MTG for Infection Control	<i>Open position</i>
Journal/Insights Liaison	<i>Open position</i>

22) Next Meeting – 2026 Annual Meeting, Austin, TX June 27-July 1, 2026

23) Adjournment



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Handbook Chair: Evan Reese
Email: emreese@burnsmcd.com
Phone: 785-506-2588

Handbook Cycle: 2027
Chapter Deadline: July 31, 2026

TC 9.2 Applications Handbook Chapters								
Type	Number	Title	Due Date	Author(s)			Reviewer(s)	
				Name	Email	Phone	Name	Email
Existing	15	Industrial Air Conditioning	7/5/2026	Carlos Gonzalez	cmanuelgj@gmail.com			
Existing	18	Engine Test Facilities	7/12/2026	Eileen Jensen	nesnejen@gmail.com	(503) 329-5485		
Existing	21	Printing Plants	6/28/2026	Shaun Nienhueser				
Existing	22	Textile Processing Plants	4/1/2026	Eileen Jensen Bapari "last name"	nesnejen@gmail.com	(503) 329-5485		
Existing	27	Air Conditioning of Wood and Paper Facilities	4/15/2026	Kevin Marple	kmarple@benzco.com	(503) 596-2561		
Existing	28	Power Plants	4/26/2026	Eileen Jensen	nesnejen@gmail.com	(503) 329-5485	Erich Binder Tom Axley	erich.binder@worley.com thomas.axley@gmail.com
Existing	29	Nuclear Facilities	4/29/2026	Deep Ghosh Scott MacMurray	dghosh@southernco.com scott.macmurray@srs.gov	(205) 992-7368	Tom Axley Kai Han	thomas.axley@gmail.com kai.dh.han@gmail.com
Existing	30	Mine AC and Ventilation	4/5/2026	Erich Binder	erich.binder@worley.com	(403) 836-0832		
Existing	31	Industrial Drying systems	4/12/2026	Matt Quitadamo Duncan Phyfe				
Existing	32	Ventilation of the Industrial Environment	4/19/2026	Evan Reese (Tentative) Garrett Lawler			Kai Han Chris Krieps	kai.dh.han@gmail.com chriskrieps@gmail.com
Existing	33	Industrial Local Exhaust Systems		Kevin to Review			Chris Krieps	chriskrieps@gmail.com
New	TBD	Semiconductor and Nanotechnology Facilities		Mike Connor	michael.connor@wsp.com	(404) 469-0957	John McKernan	mckernan.john@epa.gov
New	TBD	3D Printer Facilities		Dwayne Hammond	ahz0@cdc.gov	(513) 841-4286	Ken Goodman	clonnach@yahoo.com
New	TBD	Oil and Gas Facilities		Erik Ostberg	erik.ostberg@bp.com	(907) 632-0792	Erich Binder Tao Zhang Matt Kampen	erich.binder@worley.com tomchang6622@live.com matthew.kampen@conocophillips.com
New	TBD	Shelter in Place Facilities		Erik Ostberg Erich Binder Anthony Sarrack	erik.ostberg@bp.com erich.binder@worley.com ASarrack@BakerRisk.com	(87) 671-1977	Erich Binder Erik Ostberg	erich.binder@worley.com erik.ostberg@bp.com
New	TBD	HVAC in Hazardous Environments		Mike Bacum Chris Krieps	mikeb@exphvac.com chriskrieps@gmail.com		Erich Binder Erik Ostberg Tao Zhang	erich.binder@worley.com erik.ostberg@bp.com tomchang6622@live.com
New	TBD	Epidemic Prevention in Industrial Facilities		John McKernan	mckernan.john@epa.gov	(513) 569-7415		
New	TBD	Battery Storage Facilities		Deep Ghosh Chris Krieps	dghosh@southernco.com chriskrieps@gmail.com	(205) 992-7368		
New	TBD	Food Processing Facilities					Matt Archey John Martin Mark Baker	
New	TBD	Bulk Goods Production Facilities						
New	TBD	Industrial Paint Facilities		Nathan Frymire Goeff Graifsnyder	nfrymire@burnsmcd.com graifsnider@GLOBALFINISHING.com			