

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS, INC.
1791 Tullie Circle, NE / Atlanta, GA 30329
(404) 636-8400

TC/TG/TRG MINUTES COVER SHEET

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

TC/TG/TRG NO.:	4.5	TC/TG/TRG TITLE:	Fenestration
DATE OF MEETING:	June 25, 2019	LOCATION:	Kansas City, MO
DATE ISSUED:	February 3, 2020	RECORDED BY:	Charlie Curcija

Name	Affiliation	E-Mail	Member (VM, CM, Guest)	Present
<i>Peter Lyons (Handbook)</i>	Peter Lyons and Associates	peter.lyons@fenestralia.com	VM-NQ	Y / Remotely
<i>Anil Parekh (Vice Chair)</i>	Natural Resources Canada	Anil.Parekh@NRCan.gc.ca	VM	Y
<i>Sagar Rao (Research)</i>	AEI	sagar.rao@outlook.com	VM	Y
<i>Roger LeBrun</i>	Velux America	roger.lebrun@velux.com	VM	N
<i>Charlie Curcija (Chair/Calculation Methods)</i>	Lawrence Berkeley National Lab	dccurcija@lbl.gov	VM	Y
<i>Mahabir Bhandari</i>	Oak Ridge National Lab	bhandarims@ornl.gov	VM	Y
<i>Joe Hetzel</i>	DASMA	jhetzel@thomasamc.com	VM	N
<i>Athanasios Tzempelikos,</i>	Perdue Univerasity	ttzempel@purdue.edu	VM	N
<i>Chris Mathis</i>	MC2	Chris@mathisconsulting.com	CM	Y (part)
<i>Samuel Taylor</i>		Samuel.taylor.sr@gmail.com	CM	Y
<i>Dennis Wessel (TAC Liaison – Technical Activities Committee)</i>	Consultant	Dwessel49@gmail.com	Guest	Y (part)
<i>Bass Abushakra (TC 4.5 Handbook Liaison)</i>	Datadigm Analytics	Datadigm-Analytics@outlook.com	Guest	Y (part)
<i>William C. DuPont</i>	Sunergy Consulting	waupi@msn.com	CM	Y
<i>Mehdi Ghobadi</i>	NRC Canada	Mehdi.ghobadi@gmail.com	CM	Y
<i>Christian Kohler</i>	LBNL	cjkohler@lbl.gov	CM	Y
<i>Iason Konstantzos</i>	University of Nebraska Lincoln	iason.konstantzos@unl.edu	Guest	Y
<i>Chitra Nambiar</i>	PNNL	Chitra.nambiar@pnnl.gov	Guest	Y
<i>Paul Turnbull</i>	Siemens Building Technologies	Paul.turnbull@siemens.com	Guest	Y
<i>Jason Theios</i>	Guardian	jtheios@guardian.com	CM	Y / Remote
<i>Mike Pouchak (RAC Liaison)</i>		jtheios@guardian.com	CM	Y / Remote
Total voting members: 8 Voting members present: 5				

SCOPE:

TC 4.5 is concerned with the identification and evaluation of all physical properties of (1) glasses and other glazing materials, (2) shading and shielding materials and devices, and (3) control devices and strategies which influence the radiant, conduction, and convection transfer of both heat and light through fenestration systems. It is also concerned with the development of procedures for calculating and measuring solar heat gain, daylight admission, and heat transfer through fenestration systems.

COMMITTEE AND MEETING INFORMATION

Subcommittee Meetings:

Handbook:
Research:
Program:
Calculation Methods:

TC Web Site: <http://tc0405.ashraetcs.org>

INTRODUCTIONS AND ROSTER CHECK

Meeting started at 2:00pm. Voting 5, present 16.

APPROVE MEETING AGENDA

Agenda were approved unanimously with minor changes to include standard report from Chris Mathis (4-0-0).

APPROVE MINUTES FROM PREVIOUS MEETING

Minutes were approved unanimously (5-0-0).

ANNOUNCEMENTS (TC Chair)

- Roster changes: Kelli Fleming replaces Roger Lebrun.
- TC/TG/TRG Chairs announcements: Dennis Wessel rolling off as Section 4 head. New head: Jaime Bennet

TC LEADERSHIP

Voting membership reviewed.

LIAISON REPORTS

Technical Activities Committee (TAC)

Section head informed the ASHRAE's proposed TC changes:

- Improve time management
- Send activity form to Dennis
- High Tower award for outstanding service to be announced at Winter meeting
- Review title and scope every two years

Research Activities Committee (RAC)

Section head informed the ASHRAE's proposed TC changes:

- Disposal of RP 1710 in process
- 1789 needs new PES. Send email by chair to MP about the new PES
- Need official minutes posted on official web site
- Contact: RL4@ashrae.net

- Need to remove people from Basecamp when they are not on the roster. Might want to communicate first about inclusion in Basecamp

RBC Liaison

- No update provided

Conferences and Expositions Committee (CEC)

No liaison present.

Handbook Committee

- The deadline for submission of handbook updates to AHSRAE by the handbook subcommittee is 07/31/2020. By this date everything should get out of TC and handed over to ASHRAE (e.g. permission to use charts, tables etc)

Chapter Technology Transfer Committee

No liaison present.

ASHRAE Learning Institute (ALI) / Professional Development Committee (PDC) –

No liaison present.

Special Publications

No liaison present.

Unofficial 205 Liaison

Standards (Need new liaison. John Hogan rolled off)

See below

SUBCOMMITTEE REPORTS

Calculation Methods (Charlie Curcija).

Provide list of experts domestic and international
 Post purpose and scope to Basecamp and let others know
 Develop new work item (NWI) for ISO TC163
 Need more support to win at ISO
 10077 embedded into Passivehaus
 Some members have concern about ISO development process

Handbook (Peter Lyons)

Bassam Hasan is the new liaison for handbook
 Deadline: May 31, 2020 (all approved)
 Minor revision. Shading and complex glazing
 Make sure that everything is in place (e.g., permissions to publish, etc.)
 Peter Lyons will synchronize with the current version and list in spreadsheet
 Should we include something about AERC? Also, other international rating systems (e.g., Australian – WinCover)
 Should we retain old material on shading?
 Indicate who is going to write what
 Include results from 1710 into the handbook.
 Create long term items (i.e., for 2025 edition). Examples are IAC removal/changes, old tables and graphs, add new classes of products, PV glazing, etc.
 Peter Lyons will take a lead with the help of LBNL, ORNL Peter will create tasks and assignments

Research (Sagar Rao)

RP1710:

- Completed and PMS chair (Anil) to send note to RAC

RP 1414:

- Discontinued due to lack of response from contractor

RP 1789:

- Need to be rebid with revised PES

Programs

- Mahabir will submit and chair a seminar on windows shading systems in Austin
- Proposed two seminars for Chicago
- Deadline for Austin submission is February 10 for the seminar July 26.

Standards (Chris Mathis)

See RBC Liaison

TC 4.5 Website (Sagar Rao)

Sagar R. will add members, who are not in Basecamp, to basecamp.

OLD BUSINESS

None.

NEW BUSINESS

AIA deadline for new definitions is July 5.

ADJOURN

Approximately 4:00pm.

*Respectfully submitted by Charlie Curcija
February 3, 2020*