

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 15, 2021	LOCATION:	Virtual (Zoom)
DATE ISSUED:	August 11, 2021	RECORDED BY:	Thanos Tzempelikos

Name	Affiliation	E-Mail	Member (VM, CM, Guest)	Present
<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>Mahabir Bhandari Chair</i>	Oak Ridge National Lab	bhandarims@ornl.gov	VM	Y
Christian Kohler	LBNL	cjkohler@lbl.gov	VM	Y
<i>Aziz Laouadi</i>	NRC Canada	Aziz.laouadi@nrc.ca	VM	Y
<i>Iason Konstantzos</i>	University of Nebraska Lincoln	iason.konstantzos@unl.edu	VM	Y
<i>Thanos Tzempelikos</i>	Purdue University	ttzempel@purdue.edu	VM	Y
<i>Gordon Thomas</i>	DASMA	gthomas@thomasamc.com	VM	N
<i>Charlie Curcija (Chair/Calculation Methods)</i>	Lawrence Berkeley National Lab	dccurcija@lbl.gov	CM	Y
<i>Peter Lyons (Handbook)</i>	Peter Lyons and Associates	peter.lyons@fenestralia.com	VM-NQ	N
<i>Samuel Taylor</i>		Samuel.taylor.sr@gmail.com	CM	Y
<i>Jamie Bennett (TAC Liaison)</i>	CDC/NIOSH	Sh4@ashrae.net	Guest	Y (part)
<i>Maureen Grasso</i>	NC State University	mgrasso@ncsu.edu	CM	Y
<i>Michael Hammond</i>	Vitro Architectural Glass	mhammond@vitro.com	CM	Y
<i>Jean-Michel Dussault</i>	Veridis Solutions inc.	jean-michel.dussault@veridissolutions.com	CM	Y
<i>Michael Thoman</i>	NFRC	mthoman@nfrc.org	Guest	Y
<i>James Bennett</i>	CDC/NIOSH/Section 4 head	jbennett@cdc.gov	Guest	Y
<i>Ratnesh Tiwari</i>	University of Maryland	ratnesht@gamil.com	Guest	Y
<i>Bipin Shah</i>	WinBuild Inc	winbuild.usa@gmail.com	CM	Y
<i>Robert Tenent</i>	NREL	robert.tenent@nrel.gov	Guest	Y
<i>Robert Hart</i>	LBNL	rghart@lbl.gov	CM	Y
<i>Marc LaFrance</i>	DOE	Marc.lafrance@ee.doe.gov	Guest	Y

<i>Julian Wang</i>	Penn State Univ.	Julian.wang@psu.edu	CM	Y
<i>Alex McGowan</i>	WSP Canada Inc	Alex.mcgowan@wsp.com	CM	Y
<i>April Rawson</i>	NFRC	arawson@nfr.org	Guest	Y
Total voting members: 8 Voting members present: 5				

Meeting started: 3:00 pm EST

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

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

Basecamp: <https://3.basecamp.com/3106353/projects>

INTRODUCTIONS AND ROSTER CHECK

- 5 VMs present, quorum was achieved.

APPROVE MEETING AGENDA

Agenda was approved unanimously.

APPROVE MINUTES FROM PREVIOUS MEETING

Minutes were approved unanimously.

ANNOUNCEMENTS (TC Chair)

- Mahabir attended TC breakfast meeting.
- No more push from ASHRAE for consolidating TCs.
- Virtual, in person or hybrid TC meetings? In person and hybrid is preferred.
- 2019-2025 ASHRAE Strategic Plan (Resilience, IEQ, Organizational Streamlining)
- One new Hightower Technical award due – nomination by September 1st
- Research budget remains the same for now. No new projects being awarded.

TC LEADERSHIP

- Bipin Shah will be a new Voting Member (starting from July 1, 2021)
- No other changes

LIAISON REPORTS

Technical Activities Committee (TAC) – Jamie Bennet

Section head informed the ASHRAE's proposed TC changes:

- New activity report format.
- New: Functional Group Evaluation Workbook – self assessment for the TC based on the Manual of Procedures (MOP). Completed FG Workbook due on winter meetings.
- MBO template for strategic plan announcement.
- Leadership training videos.

Research Activities Committee (RAC)

- No liaison present.
- Contact: RL4@ashrae.net

RBC Liaison

- No update provided

Conferences and Expositions Committee (CEC)

No liaison present.

Handbook Committee

No liaison present.

Chapter Technology Transfer Committee

No liaison present.

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

No liaison present.

Special Publications

No liaison present.

Standards

No liaison present.

SUBCOMMITTEE REPORTS

Research (Sagar Rao)

RP 1414:

On hold.

WS 1926:

Submitted, no update, waiting on RAC response.

RTAR 1925:

Submitted, under consideration, waiting to hear from RAC

Long-Range Research Plan:

3 new ideas, still preliminary.

Programs

- Iason chaired meeting
- 14 members attended
- 3 proposed Seminars for the next winter meeting in Las Vegas- deadline Aug. 2, 2021
- 4 ideas for future seminars and/or technical sessions

Handbook

- Peter Lyons requested that we assign a new subcommittee chair

Calculation Methods

- Charlie chaired meeting
- Final draft of NWI for ISO submittal discussed, posted on Basecamp

Standards (Chris Mathis)

Not attending

TC 4.5 Website (Iason Konstantzos)

Iason is managing TC web site.

OLD BUSINESS

None.

NEW BUSINESS

Mahabir nominated a new handbook subcommittee chair: Dr. Ravi Srinivasan, University of Florida.

Votes: 5-0-0, chair not voting.

ADJOURN

5:00 pm EST

Respectfully submitted by Thanos Tzempelikos