

ASHRAE 2016 Winter Meeting – Orlando, FL  
**TC 7.1 Integrated Building Design**  
**Meeting minutes**

These draft minutes must be approved by this committee to be the official approved record

**Scope:**

TC 7.1 is concerned with facilitating interaction among all building disciplines, from earliest concept development throughout the building life cycle, in order to achieve integration of design efforts and operation of the total building.

**Subcommittee Meetings:**

Research - Sunday, January 24, 2016 5:00-6:00pm, Lake Concord A, Floor L, Hilton,  
 Program - Sunday, January 24, 2016 6:00-7:00pm, Lake Concord A, Floor L Hilton,

**Program Activity:**

**Sponsored or Co-Sponsored by TC7.1:**

**Main Committee Meeting:** Monday, January 25, 2016 8:15-10:30 am Lake Sheen B  
 Floor L, Hilton

A. **Call to Order** – Tardif – 8:15 AM

B. **Roll Call** – Tardif – *Quorum not achieved*

C. **Introductions** – Tardif

IBD Attendance January 25 2016					
Name	e-mail	Affiliation	Self reported membership	YEA	
Michel Tardif	Michel.tardif@canada.ca	NRcan	Voting Chair		No
David Allen	dallen@allen-engineering.net	Allen-engineering	Non Voting handbook sub-committee Chair		No
Kevin Amende	kamende@me.montana.edu	MSU	Corresponding member		No
Jaya Mukhopadhyay	Jaya.mukhopadhyay@montana.edu	MSU	Provisional corresponding member		No
Mitchell Swann	swann@mdcsystem.com	MDC Systems	Voting member		No
Wayne Webster	Wayne.webster@sympatico.ca		Guest		No
David Norvell	David.norvell@ucf.edu	UCF	Provisional corresponding member		No
Eleftherios Bourdakis	elefbur@byg.dtu.dk	DTU	guest		?
Leslee Jonsson	ljonsson@mazetti.com	Mazetti	guest		No
Aru Jau	Runabha@gmail.com		guest		?
Rachel Romero	Rachel.romero@nrel.gov	NREL	Corresponding member		yes
Russell Taylor	taylorrd@utrc.utc.com	United technologies	Provisional corresponding member		no
Jason Atkisson	jatkisson@aeieng.com	Affiliated Engineers	Voting member		No
Elyse Malherek	elysem@twgi.com	The Weidt Group	Voting /Secretary Webmaster		No

<b>Artem Zhukov</b>	Green.azhukov@gmail.com		Provisional corresponding member	No
<b>Paulo Presotto</b>	Paulo.presotto@spm.com.br	SPM Engehhria S/C Ltda	Provisional corresponding member	No
<b>Susan LeViseur</b>	sleviseur@haddadeng.com	Haddad Engineering Inc.	Standards Subcommittee Chair	No
<b>Mariana Vallejo</b>	Marianna.vallejo@gmail.com		guest	

#### D. Review of Agenda – Tardif

#### E. Approval of Minutes from Annual Meeting 2015 Atlanta Meeting – Tardif

- A motion to approve the meeting minutes has been posted in a letter –ballot. The Atlanta meeting minutes were approved by this committee on February 12 2016.

#### F. Roster Review – Tardif

- There are 8 voting members and 1 non quorum voting member for a total of 9 voting members.
- David Ellis have asked to be removed as Vice-Chair. David Allen has accepted to take this position. Gregory Dobbs is now a non quorum voting member.
- Krishnan Gowri have asked to be reinstated as a corresponding member. He remains Research Subcommittee Chair.

#### G. Subcommittee Reports

##### 1. Handbook – *Allen*:

- *During the last cycle, the chapter was completely rewritten. The new methodology incorporates addressing the basis of integrated design, including a list of all major steps.*
- Instead of putting energy in once every four years, the subcommittee would like to go into continuous maintenance, focusing on adding content and clarity where it's most needed.
- Once a year, the revisions will be passed to the full committee for inclusion in the online handbook version.
- An open call for subject matter experts was given. Steven Pope and Elyse Malherek joined the sub committee.

##### 2. Research – *Gowri*:

- There is an active RTAR tentatively called “Strategies for Integrated Project Delivery to Increase Value” and “Key Performance Processes for High Performance Building Design.”
- Potential for committee approval by Winter meeting 2017.
- Potential for cosponsorship with TC 7.2 (Design Build) and/or 1.7 (Business, Management, and General Legal Education)

##### 3. Programs – *Simmons*:

- Potential for forum on RTAR (Rachel Romero) which can be effective for getting research approved.
- There is likely a Commissioning track in Las Vegas (Winter 2017)

##### 4. Specifications – *King*:

- Nothing to report

- Michel to contact Mike King to see if there is interest; this may be removed from future agendas.

#### 5. Special Publications – *Gulledge*

- Nothing to report

#### 6. Webmaster – *Malherek*

- ASHRAE rolled out stock websites for TCs to ease webmaster burden. (Yay)
- <https://tc0701.ashraetcs.org/>

#### H. Old Business

##### 1. CSI CSI/ASHRAE UniFormat Collaboration – *King*

##### 2. TC 7.1 Liaisons to Other Committees:

##### a. BIM Steering Committee (now MTG) – *Malherek*

- Elyse inputs
- 

b. *SPC 209* – **(Energy Simulation Aided Design for Buildings Except Low-Rise Residential Buildings) PURPOSE:** Define minimum requirements for providing energy design assistance using building energy simulation and analysis. Should be voting out a draft soon.

##### c. *Section 9: TC7.1 liaisons to the indicated TC of Section 9:*

- *TC9.1 (Large Building) – Updating design air conditioning design manual for large buildings*

- *TC9.2 (Industrial) – NONE*

- *TC9.4 (Justice Facilities) – NONE*

- *TC9.6 (Healthcare)- Austin – Standard 170, healthcare ventilation.*

- *TC9.7 (Educational)– Atkinson (LeViseur as back-up) P3 catching steam*

- *TC9.8 (Large building air conditioning applications)– Austin*

- *TC9.9 (Mission Critical)– NONE*

- *TC9.10 (Labs) – Atkinson (air change rates, significant disagreement on whether ASHRAE should be sticking their nose in) should it be ACH or something else? If we provide those numbers, how much legal responsibility if those are wrong? ANC and NFPA are backing off those numbers. Lab design came out.*

- *TC9.11 (Clean Spaces) – Sheih RFP for particle generation in life science biospace labs. Purpose to establish data driven relationship between clean room performance and air change rates. Rule of thumb 197 209e federal standard wiped 014677 ISO replacement. Air change rates for class 100 greater than we need to keep the room clean. ISO class 7 rooms, we're seeing the rates at 350 425 particle density. They are 20 aCH-40. The impact is that the concentration rates are an order of magnitude lower than limits. Research to be completed at end of March. End of May report. January or June ASHRAE article. Micro electronics is the next area of research.*

*Want a similar load table but for particle generation based on process going on in the room. Pharma doesn't do real time particle. MicroE people are starting to do real time particle counts.*

- *TC9.12 (Tall Buildings)– NONE*

d. *MTG. EAS -Simmons This MTG was dissolved.*

e. *MTG.BPM –Dobbs*

*f. MTG-OBB-Tardif*

- *There is a new MTG called Occupant Behavior in Buildings . Elyse Malherek have accepted to represent TC 7.1 and Michel Tardif as the alternate. The meeting time for the MTG is over the main TC meeting, so alternative liasons should be sought.*

3. ALI IBD Course – *Gulledge*

- Nothing to report

**I. New Business**

1. TC 2.1 Have recent study related to absenteeism BIM model interatction. Grasshopper, try to calibrate with Grasshopper to find balance to facilitate energy and performanc enand human response. Depreciation of minimum air.

**2. Other**

J. **Next Meeting:** Monday, June 27, 2016, St-Louis,MO

Adjourned at 9:55