DRAFT Agenda

TC 7.5 Enabling Technology

1/16/21 11:00 AM to 11:45 AM

Prepared by David Yuill

Subcommittee Scope: •   The Enabling Technologies Subcommittee of TC 7.5: Smart Building Systems aims at exploring and developing technologies which will enable the development, implementation and commercialization of smart building applications such as fault detection and diagnostics, model-predictive control and optimization, and smart grid applications such as automated demand response. Three focal points of this subcommittee are i) smart transducers, such as sensors and actuators which provide diagnostic information, ii) communications, such as wireless devices and protocols enabling greater data exchange, and iii) embedded metadata, such as embedded equipment and system information to enable smart building applications. On these topics, the scope of this subcommittee includes identifying and sponsoring research projects, evaluating existing technologies, providing recommendations to building operators and practicing engineers, developing supporting tools for researchers in these areas, and organizing programs to disseminate research findings and advancements among ASHRAE members.

Agenda:

5 min	**Call to Order**	
	Introductions; Agenda Overview	
29 min	**Program**	
	Current meeting status and new ideas proposals due: Monday, August 3, 2020	Ideas from last meeting are provided below
1 min	**Update/Discussion of Active project/RTARs/Work Statement**	
	Adjourn	

Program Discussions from Austin (virtual):

New program Ideas for Chicago:
New Sensing Technology Chair: Carol Lomonaco Volunteer/potential speaker: Glenn Remington (low cost particle sensor – TC). Mohammad Heidarinejad. Donghun will approach other people to recruit for this.   Eric Yang will reach out a potential speaker from CMU.
Impact of IoT on building control & monitoring Chair: Carol Lomonaco Discussion: Need better scope definition. Which direction to address here? IOT security? Database? Residential vs. Commercial vs. Industrial – could be multiple tracks; DR application vs. other application Potential speakers:

Helia Zandi – ORNL has a potential topic for presentation;
Marciej Oldziej – wireless protocol affecting and decentralization
Ming Qu – impact of IOT and security
Patrick Villaume – commercial side platform development

Enabling Technologies for COVID 19/ Pandemic in general
Chair: Kim Barker
Discussion: The scope is on gadgets that could assist in limiting the spread of Coronavirus and other respiratory infectious virus/bacteria. Examples: Touchless booth for temperature measurement etc. Apps to understand IAQ.

Mike Galler – TC 1.5 might be interested
Maciej Oldziej – control solution and sensor for COVID control
Patrick Villaume – remote sensing/control due to pandemic; clogged filter;
Kim Barker – will we need extra ventilation/ flushing. Space management and occupancy sensing for social distancing.
Carol might have a speaker;
Glenn will help with recruiting a speaker on humidity control