

Sunday, January 30, 2022  
TC 9.9 Programs, Handbook and Research  
5:00 PM – 7:00 PM PST  
Location: Caesars Palace, Emperors I (E)

Microsoft Teams Meeting  
[Link](#)

Attendance  
<https://forms.gle/6pki7Y6c8Ua9Jngn9>

Topic		Time	Presenter	In-Person or Virtual
Introduction	Welcome and Introductions	10	John Groenewold	IP
Programs	2022 Winter Las Vegas and 2022 Summer Toronto	15	Nick Gangemi	V
Handbook	Chapter 20	10	Bob McFarlane	V
Research	1675-RP: Guidance for CFD Modeling of Data Centers	15	Mark Seymour	V
	Sea Salt Filtration RTAR and WS	15	Roger Schmidt	V
	Wetted Materials Research	10	Mark Steinke	IP
	Open Discussion on Research Topics	15	All	
Total Time:		90	Minutes	

**Monday, January 31, 2022**  
**TC 9.9 Main Meeting**  
**2:30 PM – 7:15 PM PST**  
**Location: Caesars Palace, Emperors I (E)**

**Webex Meeting**

<https://ashrae.webex.com/ashrae/j.php?MTID=m9a1172e64d78bc80a68f425d6def3c2b>

**Attendance**

<https://forms.gle/6pki7Y6c8Ua9Jngn9>

Topic		Time	Presenter	In-Person or Virtual
Introduction	Welcome and Introductions	5		
	What is TC 9.9 Presentation	15	John Groenewold	IP
	TC 9.9 Officers and Membership	10		
Program		5	Nick Gangemi	V
Webmaster		5	Ecton English	V
Liaison Reports	Standard 90.1	10	Rick Pavlak	IP
	Standard 90.4	10	Rick Pavlak	IP
	SPC-127	10	John Bean	V
	SSPC 300, Guideline 1.6	10	Terry Rodgers	IP
	MTG.CYB	10	Ecton English	V
	SSPC15 WG15 ASHRAE Std. 15	10	John Groenewold	IP
Break		15		
International	International Update	10	Don Beaty	V
Industry Engagement	LBNL / DOE	10	Steve Greenberg	V
	Advanced Cooling Facilities	10	John Gross	V
	OCP Liquid Cooling Workgroup	10	Nigel Gore	V
Publications	Datacom Book 3 - Design Considerations for Datacom Equipment Centers	10	Dustin Demetriou	IP
	Cold Weather Shipping White Paper	5	Joe Prisco	IP
	Thermal Guidelines 5 <sup>th</sup> Edition	15	Roger Schmidt	V
IT Subcommittee	Hot Aisle Considerations for Human Health	5	John Gross	V
	Water Cooling White Paper	15	Dave Moss	V
Total Time:		205	Minutes	

## General tips for the hybrid in-person / virtual meeting

### Virtual Participants

#### Audio:

- Connection Type: ensure the meeting control panel is set to the correct audio input and output device.
- Ensure clear audio. Use a connected or Bluetooth headset or earbud with microphone.
- There is no need to announce your arrival to the meeting. Use the Google form link below to record your attendance. It will be available at the start of the meeting and will be repeated several times during the chat.
- Ensure you are muted unless you need to speak. Always keep the mute on even if you think you are not making noise, the group can hear everything. Use the mute function within the meeting platform instead of any mute functions on your audio hardware. A host may mute your line for you if the audio is distracting to the meeting.

#### Video:

- Webcam video is discouraged and may not be available in the meeting due to wireless bandwidth issues.

#### Chat:

Use Chat instead of speaking when:

- For quick replies (yes, no, agree, disagree.)
- Audio or video quality problems
- Chat comments made to the Host may be visible to both in-person and virtual participants in addition to general chat posts.

#### Attendance Recording:

### In-Person Participants

#### General:

- In-person participants are discouraged from joining the virtual meeting due to wireless bandwidth concerns.

#### Audio:

- In-person speaker voice amplification to those in the room may not be available.

#### Video:

- There is no video feed from the in-person room to the virtual meeting.
- There is a projector in the room to share presentation material with those in the room.
- Presentation material will also be shown in the virtual meeting.