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ASHRAE Oregon Chapter – P.O. Box 1452 Portland, Oregon 97207  
www.orashrae.org



## ASHRAE Oregon Chapter Controls Trade Show

Please join the ASHRAE Oregon Chapter for a day of learning about **Building Automation and Controls in the HVAC industry**. Meet your local Controls experts, see their products, learn about the technology of Building Automation Systems equipment and applications and talk to them about your projects. Learn about the history of controls, commissioning of control systems, internet of things, controls of small to medium sized buildings and many more topics. Learn about incentives offered by Energy Trust of Oregon related to Building Automation and Controls and earn PDHs!

- Food and beverages will be provided throughout the day. Coffee all day. Pastries in the morning. Lunch buffet. Afternoon cookies. Happy Hour bar.
- The venue is easily accessible by MAX. Parking will be available in the parking garage for vendors and guests.

This event is shaping up to be one you won't want to miss. We are sold out of vendor sponsorships. Technical session topics are listed below.

### **Technical session topics (1 PDH each)**

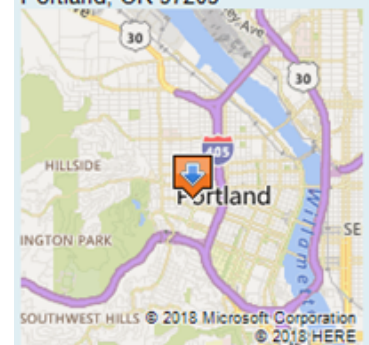
- ***Introduction to Commissioning Control Systems*** presented by ***David Sellers***
- ***History of Controls*** presented by ***Trane***
- ***Building Automation and the Internet of Things (IOT)*** presented by ***LONG Building Technologies***
- ***Controls Options for Small to Medium Sized Buildings*** presented by ***Schneider Electric***
- ***Controls Sequences – Best Practices and Good & Bad Examples of Controls Diagrams*** presented by ***Enviser***
- ***Air flow and water flow measurement technologies*** presented by ***InControl***

#### **When**

Thursday, April 11, 2019 from  
10:00 AM to 4:00 PM PDT  
[Add to Calendar](#)

#### **Where**

**Multnomah Athletic Club**  
1849 SW Salmon St.  
Portland, OR 97205



- *Control Valve Authority, Design Flow Considerations, Importance of Differential Pressure Control presented by Victaulic/Tour Anderson*
- *Understanding controls of VRF systems presented by Daikin*
- *Case Study: Craft Brew Alliance - Using Energy Monitoring to Capture Green Initiatives Savings. Solutions for Proof of Flow with VFDs presented by Senva, Inc.*
- *Building Analytics presented by Delta Connects*
- *Smart Buildings presented by Delta Connects*
- *Evolution of the Control Valve presented by Belimo*
- *Effect of Zone Air Distribution from the controls perspective presented by Clima-tech*
- *Cybersecurity in Building Controls and Integrated Systems presented by Siemens Building Technologies*
- *Control Capability of Modern HVAC Equipment for Full Hydronic System Operation presented by Proctor Sales, Inc.*

## Thank you to our event sponsors

**InControl**

**SENAVA**  
SENSORS

**LONG**



**Tour & Andersson**



**For technical break-out session times please visit our website at:**  
[www.orashrae.org](http://www.orashrae.org)

**We look forward to seeing you there!**

# ASHRAE Controls Trade Show 2019

## Technical Sessions

Date: April 11, 2019  
 Time: 10:00am - 4:00pm

Time Slot	King Hill Room	Chapman Room	Pettygrove Room
10:00am - 11:00am	<i>InControl</i>	<i>Senva Inc.</i>	<i>LONG Building Technologies</i>
	<b><i>Air flow and water flow measurement technologies</i></b>	<b><i>Case Study: Craft Brew Alliance - Using Energy Monitoring to Capture Green Initiatives Savings. Solutions for Proof of Flow with VFDs.</i></b>	<b><i>Building Automation and the Internet of Things (IOT).</i></b>
11:15am - 12:15am	<i>Victaulic / Tour Anderson</i>	<i>Trane</i>	<i>Siemens Building Technologies</i>
	<b><i>Control Valve Authority, Design Flow Considerations, Importance of Differential Pressure Control</i></b>	<b><i>History of Controls</i></b>	<b><i>Cybersecurity in Building Controls and Integrated Systems</i></b>
12:30pm - 1:30pm	<i>Daikin</i>	<i>Delta Connects</i>	<i>Belimo</i>
	<b><i>Understanding controls of VRF systems</i></b>	<b><i>Building Analytics</i></b>	<b><i>Evolution of the Control Valve</i></b>
1:45pm - 2:45pm	<i>Schneider Electric</i>	<i>Delta Connects</i>	<i>Proctor Sales</i>
	<b><i>Controls Options for Small to Medium Sized Buildings</i></b>	<b><i>Smart Buildings</i></b>	<b><i>Control Capabilities of Modern HVAC Equipment for Full Hydronic System Operation</i></b>
3:00pm - 4:00pm	<i>Applied Systems NW</i>	<i>Clima-tech</i>	<i>Envisi</i>
	<b><i>David Sellers: Introduction to Commissioning Control Systems</i></b>	<b><i>Effect of Zone Air Distribution from the controls perspective.</i></b>	<b><i>Controls Sequences - Best Practices and Good &amp; Bad Examples of Controls Diagrams.</i></b>