

## 2015 Rocky Mountain Chapter ASHRAE Technical Conference “People, Passion and Performance”

7:30-8:00	<b>Registration</b>				
<b>Tracks</b>	<b>HVAC&amp;R Fundamentals</b>	<b>HVAC&amp;R Systems &amp; Applications</b>	<b>Sustainability</b>	<b>Building Automation</b>	<b>Critical Environments</b>
<b>Sponsor:</b>	<b>Western Mechanical Solutions</b>	<b>CFM Company</b>	<b>McNevin Company</b>	<b>To Be Determined</b>	<b>Air Purification</b>
<b>8:00-8:55</b>	<i>Altitude Effects on System Design</i> Michael Haughey P.E., Siltertip Integrated Engineering Consultants	<i>Heating Water Boiler Systems For K-12</i> Jerry Bivens, LEED AP Envision Mechanical Engineers	<i>Denver Water Case Studies on Cooling Tower Water Efficiency</i> Rick Alvarado Denver Water	<i>Today's New Buildings Aren't As Smart As They Should Be</i> Kevin Zolitor Encore Electric	<i>Healthcare Codes and Standards</i> Mark Jelinske, P.E. Cator Ruma & Associates
<b>9:00-9:55</b>	<i>Psychrometrics</i> Michael Fulton, P.E. Western Mechanical Solutions	<i>Design and Economics of Commercial Ground Loop Heat Pump Systems</i> Alan Niles WaterFurnace International	<i>A Multi-Year, Multi-Building Retro-Commissioning Success Story</i> Pieter van der Mersch University of Colorado Boulder	<i>BAS Upgrade Decision: Full Replacement vs. Phased Migration</i> Steve Jones S4 Group	<i>Applying an Intelligent, High-Efficiency Energy Recovery System</i> Sean Convery, P.E. Cator, Ruma & Assoc. Mark Labac, P.E. Edge Mechanical Systems
9:55-10:25	<b>Morning Break &amp; Vendor Exhibits</b>				
<b>10:25-11:20</b>	<i>The V in HVAC: Standard 62.1, The Interpretation and the Calculations</i> Rebecca Reel The RMH Group	<i>Application of VAV Terminals and Advanced Control Strategies for Terminals in HVAC Design</i> Dennis Sikkema Price Industries	<i>Liquid Desiccant Cooling Systems</i> Aaron Boranian Big Ladder Software Eric Kozubal National Renewable Energy Laboratory	<i>Factory vs. Field Mounting of BAS Controls</i> Shannon Emmel Western Mechanical Solutions Rob Lentz ATS Rocky Mountain	<i>A Holistic Overview of Technologies and Strategies to Achieve Deep Energy Reductions in Laboratories</i> Gordon Sharp Aircuity
<b>11:25-12:50</b>	<b>Lunch Break and Keynote Address:</b>	<b>Achieving a Green Data Center: More Than a Good Design is Needed</b> By: James K. Vallort ASHRAE Society Vice-President Sponsored by: Xcel Energy			
<b>12:50-1:20</b>	<b>Vendor Exhibits</b>				
<b>1:20-2:15</b>	<i>Fan Fundamentals</i> Ryan Johnson Twin City Fan	<i>Systems and Applications Roundtable: VRF Technology and Application</i> Charles Landherr Mitsubishi Electric Zach Pearson, P.E. M-E Engineers Jay Watson P.E. HPE Mar Ferguson, P.E. Colorado College	<i>Healthy Airside Solutions to Significantly Reduce your Building's Carbon Footprint</i> Gordon Sharp Aircuity	<i>Continuous Commissioning</i> Peter Bergquist Sky Foundry	<i>Seismic Considerations in Risk Category IV (Including Hospitals) Applications</i> James Tauby, P.E. Mason Industries
<b>2:15-2:35</b>	<b>Afternoon Break &amp; Vendor Exhibits</b>				
<b>2:35-3:30</b>	<i>DDC Fundamentals</i> Ken Nekvasil ATS Rocky Mountain Shannon Emmel Western Mechanical Solutions	<i>Humidification Applications in Commercial HVAC, Healthcare and Data Centers</i> Mike Dovich Dristeem	<i>Denver Zoo, Zero Waste Program (Biomass Gasification)</i> ----- Denver Zoo	<i>BACnet Overview</i> Ira Goldschmidt, P.E. Goldschmidt Engineering Solutions	<i>Common Design Practices for Grow Facilities</i> Brian Zimmerman, P.E. Impact Engineering Brian Lukus, P.E. Denver Fire Department Steve Ferguson Air Purification
<b>3:35-5:00</b>	<b>Afternoon Technical Keynote Address And Open Bar</b>	<b>Closing the Comfort Gap–Are We Giving Building Owners The HVAC They Want?</b> Larry Gelin, CFM Company Speaker Sponsored by: Xcel Energy			

Please note - Speakers and Topics Subject to Change – Some titles on this sheet are condensed for space purposes.

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