# 2019 AHR Expo Education Sessions

| Session Title | Date and Time | Location | Type |
|---|---|---|---|
| Professional Development Seminar: Commercial Building Energy Audits (code 60) | 01/12/2019 8:00 - 03:00 | B302 | ASHRAE Learning Institute Courses ($) |
| Professional Development Seminar: Effective Energy Management in New & Existing Buildings (code 61) | 01/12/2019 8:00 - 03:00 | B303 | ASHRAE Learning Institute Courses ($) |
| Professional Development Seminar: Operations & Maintenance of High-Performance Buildings (code 62) | 01/12/2019 8:00 - 03:00 | B304 | ASHRAE Learning Institute Courses ($) |
| Short Course: Advanced Designs for Net Zero Buildings (code 63) | 01/13/2019 3:30 - 06:30 | B302 | ASHRAE Learning Institute Courses ($) |
| Short Course: Latest in High-Performance Dedicated Outdoor Air Systems (code 65) | 01/13/2019 3:30 - 06:30 | B303 | ASHRAE Learning Institute Courses ($) |
| Short Course: Variable Refrigerant Flow Systems: Design & Applications (code 66) | 01/13/2019 3:30 - 06:30 | B304 | ASHRAE Learning Institute Courses ($) |
| Short Course: Air-to-Air Energy Recovery Applications: Best Practices (code 64) | 01/13/2019 3:30 - 06:30 | B305 | ASHRAE Learning Institute Courses ($) |
| New Deal Cybersecurity Summit | 01/14/2019 7:00 - 11:00 | B310 | Free Industry Sessions |
| NATE Testing & Review | 01/14/2019 8:00 - 05:00 | C207 | Certification Exams ($) |
| Short Course: Humidity Control I: Design Tips and Traps (code 67) | 01/14/2019 8:30 - 11:30 | B302 | ASHRAE Learning Institute Courses ($) |
| Short Course: Solar PV & Thermal Analysis and Design (code 68) | 01/14/2019 8:30 - 11:30 | B303 | ASHRAE Learning Institute Courses ($) |
| Short Course: Thermal Energy Storage Systems for Air Conditioning (code 69) | 01/14/2019 8:30 - 11:30 | B304 | ASHRAE Learning Institute Courses ($) |
| Short Course: Understanding and Designing Chilled-Beam Systems (code 70) | 01/14/2019 8:30 - 11:30 | B305 | ASHRAE Learning Institute Courses ($) |
| Low Cost Leads are Hurting Your Business | 01/14/2019 9:00 - 10:00 | B309 | Free Industry Sessions |
| The Future of Building Automation Creating Our New Persona "Building Emotion" | 01/14/2019 9:00 - 10:00 | B311 | Free Industry Sessions |
| Monetization of Intelligent Buildings | 01/14/2019 9:00 - 10:00 | B313a | Free Industry Sessions |
| Customer Service is Not a Department, it is a Mindset | 01/14/2019 9:00 - 10:00 | B313b | Free Industry Sessions |
| BACnet 101: From an HVAC Perspective | 01/14/2019 9:00 - 10:00 | Thomas Murphy Section 1 | Free Industry Sessions |
| HVAC Duct Construction - Duct Design | 01/14/2019 9:00 - 10:30 | B315 | Free Industry Sessions |
| Trends in the Global HVAC Market | 01/14/2019 9:00 - 11:00 | B312 | Free Industry Sessions |

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| Air Purification to Keep Ductless Mini-splits Free of Mold and Odors | 01/14/2019 10:15 - 10:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| How Fieldpoint's Latest Solution Can Help Your Enterprise Achieve Field Service Management Goals | 01/14/2019 10:15 - 10:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| TCOD-Clean; High Purity Filtration Selection & Design Software | 01/14/2019 10:25 - 10:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Introduction to Building Automation Systems | 01/14/2019 10:30 - 11:30 | B311 | Free Industry Sessions |
| Developing a Cyber Security Defense | 01/14/2019 10:30 - 11:30 | Thomas Murphy Section 1 | Free Industry Sessions |
| Psychrometrics Without Tears | 01/14/2019 10:30 - 12:30 | B309 | Free Industry Sessions |
| DOE Regulations and the HVACR Industry | 01/14/2019 10:45 - 11:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Intuitive Refrigerant Compliance Monitors for Commercial and Industrial Gas Leak Applications | 01/14/2019 10:45 - 11:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Scalable Building Control Solutions from Trane | 01/14/2019 10:55 - 11:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Low GWP Refrigerants: Components and System Designs | 01/14/2019 11:00 - 12:00 | B313a | Free ASHRAE Conference Sessions |
| Pairing Geothermal and Hydronic Systems in Residential Buildings | 01/14/2019 11:00 - 12:00 | B313b | Free ASHRAE Conference Sessions |
| Commissioning Based Energy Management: A High Impact, High Performance Approach | 01/14/2019 11:00 - 12:00 | B316 | Free Industry Sessions |
| New Products and Solutions in a Changing Industry, an EU Perspective | 01/14/2019 11:15 - 11:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Marley® MD Everest® Counterflow Cooling Tower | 01/14/2019 11:15 - 11:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Redefining Modern Building Management with Latest Metasys® Release | 01/14/2019 11:25 - 11:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Connected Multi-Dwelling Units and the Internet of Things | 01/14/2019 11:30 - 12:30 | B310 | Free Industry Sessions |
| Building and Drinking Water – Managing the Emerging Risks | 01/14/2019 11:30 - 12:30 | B315 | Free Industry Sessions |
| WebCTRL v7 Building Automation System – Advanced Reporting, Dashboards & Visualization | 01/14/2019 11:45 - 12:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |

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| Tackling New R-12 Insulation Requirements with a Single Layer of Insulation | 01/14/2019 11:45 - 12:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| New Nonflammable, Reduced GWP Replacement for R-410A | 01/14/2019 11:55 - 12:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Building Automation 101 | 01/14/2019 12:00 - 01:00 | B311 | Free Industry Sessions |
| Increasing Energy Efficiency in Air Handling Units with punker D-SERIES Diffuser Fan Wheels | 01/14/2019 12:15 - 12:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Ethernet BACnet IP/ WIFI BACnet IP- Thermostats and VAV Controllers | 01/14/2019 12:15 - 12:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Smarter Building Controller: The Cloud-based, Affordable, Portfolio-wide HVAC Management System | 01/14/2019 12:25 - 12:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Addressing Risk In an IoT-Connected World | 01/14/2019 12:45 - 01:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| The New RenewAire Slimline ERV | 01/14/2019 12:45 - 01:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Why is Filtration Critical for Minimizing Legionella Growth | 01/14/2019 12:55 - 01:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Necessity of Filtration on Open Cooling Systems | 01/14/2019 1:00 - 02:00 | B309 | Free Industry Sessions |
| Airflow Testing Accuracy in the Field | 01/14/2019 1:00 - 02:00 | B315 | Free Industry Sessions |
| Marketing through Engagement | 01/14/2019 1:00 - 02:00 | B316 | Free Industry Sessions |
| Is HVACaaS (HVAC as a Service) in Your Future? | 01/14/2019 1:00 - 02:00 | Thomas Murphy Section 1 | Free Industry Sessions |
| Cooling Tower and Water Treatment Fundamentals | 01/14/2019 1:00 - 03:00 | B312 | Free Industry Sessions |
| The Array Boiler: High-efficiency Condensing Boiler with the Benefits of Redundant Heat Exchangers | 01/14/2019 1:15 - 01:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Symphony: The Next Step in Intelligent Automation and IoT for the Hospitality Industry | 01/14/2019 1:15 - 01:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Wireless Pressure Sensing for Refrigerant Monitoring in AC and Refrigeration Systems | 01/14/2019 1:25 - 01:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Smart Environments for Humans | 01/14/2019 1:30 - 02:30 | B311 | Free Industry Sessions |

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| steamOvap is Introducing the First Smart Electric Steam Humidifier | 01/14/2019 1:45 - 02:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| QuickVic™ SD: Most Efficient & Economical Way to Join Small Diameter Carbon Steel Pipe | 01/14/2019 1:45 - 02:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Caleffi CONTECA™ Connect Made Easy | 01/14/2019 1:55 - 02:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Overcoming Errors Associated with System Variations When Using Insertion Flowmeters | 01/14/2019 1:55 - 02:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Boiling Down to the Best Boiler Solution | 01/14/2019 2:00 - 03:00 | B310 | Free Industry Sessions |
| Reduce the Space Required for Your Evaporative Cooling Equipment while Saving Water and Energy | 01/14/2019 2:15 - 02:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Single-tool Infrastructure for Connecting Systems that Takes Operational Efficiency to the Edge | 01/14/2019 2:15 - 02:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| How Revisions to Standard 180 will Help Improve Maintenance Services | 01/14/2019 2:15 - 03:45 | B313a | Free ASHRAE Conference Sessions |
| Update on Global Policies and Programs for Best Use of Refrigerants | 01/14/2019 2:15 - 03:45 | B313b | Free ASHRAE Conference Sessions |
| Revolutionary Press Fittings for Air-conditioning and Refrigeration Applications | 01/14/2019 2:25 - 02:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Quick Guide to Applying Fan and Pump Laws | 01/14/2019 2:30 - 03:30 | B315 | Free Industry Sessions |
| A Review of HEPA Filters and Newer Purification Technologies for their Effectiveness and Health Impacts | 01/14/2019 2:30 - 03:30 | B316 | Free Industry Sessions |
| Alexa Has Left the Building - Because Building IoT is So Much More | 01/14/2019 2:30 - 03:30 | Thomas Murphy Section 1 | Free Industry Sessions |
| Controls Strategies for Maximizing Condensing Boiler System Efficiency | 01/14/2019 2:30 - 04:00 | B309 | Free Industry Sessions |
| High Efficiency Plug & Plenum Fans for (Retrofit) AHU With Static Pressure of Up to 10″ WG | 01/14/2019 2:45 - 03:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Geothermal Heat Pumps Meet the Future | 01/14/2019 2:45 - 03:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Short Course: Humidity Control II: Real-World Problems and Solutions (code 74) | 01/14/2019 2:45 - 05:45 | B302 | ASHRAE Learning Institute Courses ($) |
| Short Course: Designing and Operating High-Performing Healthcare HVAC Systems (code 73) | 01/14/2019 2:45 - 05:45 | B303 | ASHRAE Learning Institute Courses ($) |
| Short Couse: Design of Affordable and Efficient Ground-Source Heat Pumps Systems (code 72) | 01/14/2019 2:45 - 05:45 | B304 | ASHRAE Learning Institute Courses ($) |

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| Short Course: ASHRAE Guideline 0 – The Commissioning Process (code 71) | 01/14/2019 2:45 - 05:45 | B305 | ASHRAE Learning Institute Courses ($) |
| Elevating the Occupant Experience | 01/14/2019 2:55 - 03:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Grid Connected Buildings as a Transactive Hub | 01/14/2019 3:00 - 05:00 | B311 | Free Industry Sessions |
| HVAPP! - Reinventing the Way We Access HVACR Industry Information | 01/14/2019 3:15 - 03:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Keep Your Operations Flowing - Accurate Flow Metering without Cutting the Pipe or Shutting Down Your System | 01/14/2019 3:25 - 03:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| The Benefits of Manifold Flow Meters in Design and Installation for Radiant | 01/14/2019 3:30 - 04:30 | B310 | Free Industry Sessions |
| HVAC System Cleaning 101 | 01/14/2019 3:30 - 04:30 | B312 | Free Industry Sessions |
| The Final Evolution of Pressure Boosting Technology! | 01/14/2019 3:45 - 04:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Infrared Sensors for Refrigerant Gas Leak Detection in the Commercial/Industrial HVACR Sector | 01/14/2019 3:45 - 04:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| IAQ Management for Residential Single and Multi-family Construction | 01/14/2019 3:55 - 04:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Assessing the Effectiveness of Economizers for De-Centralized Cooling Systems | 01/14/2019 4:00 - 05:00 | B313a | Free ASHRAE Conference Sessions |
| Using Air to Air Energy Recovery to Help Balance Comfort, IAQ and Energy | 01/14/2019 4:00 - 05:00 | B313b | Free ASHRAE Conference Sessions |
| Exposure Risk of Laboratory Fume Hoods | 01/14/2019 4:00 - 05:00 | B316 | Free Industry Sessions |
| How Much Energy Can HVAC System Balancing Save? | 01/14/2019 4:00 - 05:30 | B315 | Free Industry Sessions |
| Ask the Expert: Have Your BACnet Questions Answered | 01/14/2019 4:00 - 05:30 | Thomas Murphy Section 1 | Free Industry Sessions |
| Why Use NSF Certified Pressure Gauges | 01/14/2019 4:15 - 04:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Balancing in an IoT World - Kanomax Capture Hoods | 01/14/2019 4:15 - 04:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Super-V: The World's Newest & Most Efficient Whole-house Air Cleaner | 01/14/2019 4:25 - 04:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Virtual Reality Training for HVAC is Here | 01/14/2019 4:30 - 05:30 | B309 | Free Industry Sessions |

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| Smart Connected Actuators Making Systems Transparent | 01/14/2019 4:45 - 05:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Ventilation in a High Performance Home | 01/14/2019 4:45 - 05:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Simplifying Solar Thermal Design: Solar Stations for Every Project Size | 01/14/2019 4:55 - 05:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Hanging Ductwork Using Cable, Even in Restricted Spaces, Using DobyGrip Max | 01/14/2019 5:15 - 05:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Find Parts in the Most Unexpected Place: Your Smartphone | 01/14/2019 5:15 - 05:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Bearing Protection for HVACR Motors with Drives | 01/14/2019 5:25 - 05:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Air Source Heat Pumps for Domestic Hot Water Generation in Cold Climates | 01/14/2019 5:45 - 06:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| The Energy Wall Universal ERV: Innovation In Energy Recovery | 01/14/2019 5:45 - 06:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| How to Deliver Smart and Open Building Applications for IoT | 01/15/2019 8:00 - 09:15 | B309 | Free Industry Sessions |
| Commissioning Authority (CxA) Workshop & Exam (2 day program) | 01/15/2019 8:00 - 05:00 | C207 | Certification Exams ($) |
| New Construction Commissioning and ACP Exam (2 day program) | 01/15/2019 8:30 - 05:00 | Thomas Murphy Section 1 | Certification Exams ($) |
| Smart Building Automation Evolution from Ethernet to Emotion | 01/15/2019 9:00 - 10:00 | B311 | Free Industry Sessions |
| Defining the Pathway to Building-to-Grid | 01/15/2019 9:00 - 10:00 | B313a | Free Industry Sessions |
| The Importance of Humidity in Modern Buildings | 01/15/2019 9:00 - 10:00 | B316 | Free Industry Sessions |
| Fundamentals of Heat Metering in Hydronic Systems | 01/15/2019 9:00 - 10:30 | B313b | Free Industry Sessions |
| Providing Safety, Efficiency, and Value with Hydronic Snow Melting | 01/15/2019 9:00 - 10:30 | B315 | Free Industry Sessions |
| Trends in the Global HVAC Market | 01/15/2019 9:00 - 11:00 | B312 | Free Industry Sessions |
| Short Course: How Smart, Efficient, Sustainable Systems Lead to Improved Resilience (code 78) | 01/15/2019 9:00 - 12:00 | B304 | ASHRAE Learning Institute Courses ($) |
| Short Course: Avoiding IAQ Problems (code 77) | 01/15/2019 9:00 - 12:00 | B305 | ASHRAE Learning Institute Courses ($) |

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| Professional Development Seminar: Commissioning Process in New & Existing Buildings (code 76) | 01/15/2019 9:00 - 04:00 | B302 | ASHRAE Learning Institute Courses ($) |
| Professional Development Seminar: Choosing the Right Energy Code for Your Project – IECC 2018 or ASHRAE 90.1-2016 (code 75) | 01/15/2019 9:00 - 04:00 | B303 | ASHRAE Learning Institute Courses ($) |
| Synergies Between BACnet and LON | 01/15/2019 9:30 - 10:45 | B309 | Free Industry Sessions |
| NAFA Best Practice Guideline for Hospital & Healthcare Facilities – Updated to Include the Impact of SSPC 170 Updates | 01/15/2019 10:00 - 11:00 | B310 | Free Industry Sessions |
| Hot Water Recirculation for Tankless Heaters with & without Built-in Pumps: Indoor/Outdoor Installation, On Demand Option, Code Compliant | 01/15/2019 10:15 - 10:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Increase Your Sales & Earn Your Customer's Trust with HVAC Surge Protection | 01/15/2019 10:15 - 10:35 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Air Curtains - Clean Air Series | 01/15/2019 10:25 - 10:45 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Semantic Tagging Passes an Inflection Point - Understanding Project Haystack | 01/15/2019 10:30 - 11:30 | B311 | Free Industry Sessions |
| CRUSH Your Numbers: What You Need to Know to Grow | 01/15/2019 10:30 - 11:30 | B313a | Free Industry Sessions |
| Global Market and Policy Trends for CO2 and Ammonia in Refrigeration | 01/15/2019 10:30 - 11:30 | B316 | Free Industry Sessions |
| Daikin Fit™ Residential Inverter HVAC System for Ducted Furnace Applications | 01/15/2019 10:45 - 11:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| NEW NexusPremier™ 25-50T Packaged Rooftop | 01/15/2019 10:55 - 11:15 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| The BEST Way to Compare HVAC Systems in the Early Project Design Phase | 01/15/2019 11:00 - 11:45 | B315 | Free Industry Sessions |
| Design for High Performance Air Distribution Systems | 01/15/2019 11:00 - 12:00 | B313b | Free Industry Sessions |
| Fire Resisting Ductwork - Test Standards, Regulations & Applications | 01/15/2019 11:15 - 11:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| The Future of Hydronic Pumps: Self Optimizing Pre-packaged HVAC Pump Systems | 01/15/2019 11:15 - 11:35 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| VFD Trends and Time Savers | 01/15/2019 11:25 - 11:45 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| La Mejor Guia de NAFA para Hospitales y Centros de Salud - Actualización que Incluye el Impacto de Cambios del Standard ASHRAE SSPC 170 | 01/15/2019 11:30 - 12:30 | B310 | Free Industry Sessions |
| Improving Organizational Productivity with Building Automation Systems | 01/15/2019 11:30 - 12:30 | B312 | Free Industry Sessions |

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| Fluke's Professional HVAC Toolkit - Keeping Your World Up and Running | 01/15/2019 11:45 - 12:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Brand-New iManifold Pulse: Versatile, Low-cost HVAC/R Installed Monitoring & Diagnostics Platform | 01/15/2019 11:45 - 12:05 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Next Generation HVAC Controls: Open Hardware – Open Software | 01/15/2019 12:00 - 01:00 | B311 | Free Industry Sessions |
| There are No Secrets to Success | 01/15/2019 12:00 - 01:00 | B316 | Free Industry Sessions |
| New High Temperature Heat Pump Series WWB (Water/Water Booster) | 01/15/2019 12:15 - 12:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| New Applications of High-lift, Oil-free Centrifugal Compressors | 01/15/2019 12:15 - 12:35 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Distribution Efficiency: The Often Overlooked Advantage of Hydronics Technology | 01/15/2019 12:30 - 01:30 | B313b | Free Industry Sessions |
| NAFA CAFS Testing and 2-Hour Tutorial; NCT Testing | 01/15/2019 12:30 - 04:30 | C204 | Certification Exams ($) |
| How to Maintain the Right Humidity and Dewpoint without the Mess and Hassle | 01/15/2019 12:45 - 01:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Co-branding Tools for Contractors to Drive Visibility and Business | 01/15/2019 12:45 - 01:05 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Recruiting and Retaining Women in the HVACR Industry | 01/15/2019 1:00 - 02:00 | B310 | Free Industry Sessions |
| The Power of the Billable Hour, and How to Get it Right | 01/15/2019 1:00 - 02:00 | B313a | Free Industry Sessions |
| Existing Building Cx: What’s New | 01/15/2019 1:00 - 02:00 | B315 | Free Industry Sessions |
| LonMark Technology Updates | 01/15/2019 1:00 - 02:15 | B309 | Free Industry Sessions |
| What it Takes to Get an Installed HVAC System to Operate at Equipment Rated Capacity | 01/15/2019 1:00 - 02:30 | B312 | Free Industry Sessions |
| Advancing Lower-GWP Alternatives in Air-Conditioning Sector in the Middle East | 01/15/2019 1:00 - 03:00 | B305 | Free Industry Sessions |
| Short Course: High-Performance Building Design: Applications and Future Trends (code 79) | 01/15/2019 1:00 - 04:00 | B304 | ASHRAE Learning Institute Courses ($) |
| Using the New and Improved Building Efficiency System Tool™ (BEST) for Early-stage HVAC System Evaluation | 01/15/2019 1:15 - 01:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Eliminate the Hassle of High Volume Duct Liner Adhesives – Mix On-demand Easily | 01/15/2019 1:15 - 01:35 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Exploring Our Human Connection: 7th Annual Connection Community Collaboratory | 01/15/2019 1:30 - 02:30 | B311 | Free Industry Sessions |

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| Compounding Pharmacy Certification for Compliance | 01/15/2019 1:30 - 02:30 | B316 | Free Industry Sessions |
| 2019 U.S. Department of Energy (DOE) Energy Conservation Standards | 01/15/2019 1:45 - 02:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| All About Oil Separators | 01/15/2019 1:45 - 02:05 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| HVAC Microbial Growth | 01/15/2019 2:00 - 03:00 | B313b | Free Industry Sessions |
| GeneralAire Touch Screen & Wi-Fi Control Dehumidifiers | 01/15/2019 2:15 - 02:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Ethernet I/O Module with Router Function | 01/15/2019 2:15 - 02:35 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Reducing Your System Operating Costs by 40% with Closed Circuit Cooling Towers | 01/15/2019 2:30 - 03:30 | B310 | Free Industry Sessions |
| Safety, Innovation, and Other Benefits of CSST in Residential and Commercial Applications | 01/15/2019 2:30 - 03:30 | B313a | Free Industry Sessions |
| Best Practices for Designing Large Systems Using LON Open Protocol | 01/15/2019 2:30 - 03:45 | B309 | Free Industry Sessions |
| Low GWP Alternative Refrigerants for Cooling - Skills Needs and Solutions | 01/15/2019 2:30 - 04:30 | B315 | Free Industry Sessions |
| HEEZ: Connected Efficiency with Today’s Technology for Uncompromised Performance in Refrigeration | 01/15/2019 2:35 - 02:55 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| POWERTWIST Drive Link Belts Eliminate the Need to Re-tension | 01/15/2019 2:45 - 03:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Reaching New Heights in Fan Coil Applications | 01/15/2019 2:45 - 03:05 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| The Future of the “Super” Master Systems Integrator | 01/15/2019 3:00 - 04:00 | B311 | Free Industry Sessions |
| Fan Sizing and Selection: Basics and Fine Points | 01/15/2019 3:00 - 04:00 | B312 | Free Industry Sessions |
| Your Best Marketing Is Only As Good As Your Total Customer Experience | 01/15/2019 3:00 - 04:00 | B316 | Free Industry Sessions |
| Forane® R-32 Refrigerant: Its Use Today and a Bridge to the Future in HVAC Applications | 01/15/2019 3:05 - 03:25 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Not Just Another Wheel: The New CR Series Brings Innovation to Forward-curved Blower Wheels | 01/15/2019 3:15 - 03:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| HLR Technology: Superior HVAC Systems at Lower CAPEX | 01/15/2019 3:15 - 03:35 | Theater C - room C103 | Exhibitor Product & Technology Presentations |

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| Clean IAQ Essential for a Healthy Lifestyle | 01/15/2019 3:30 - 04:30 | B313b | Free Industry Sessions |
| Powerful Energy Analytics with Automated Fault Detection | 01/15/2019 3:35 - 03:55 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| BACnet Manager for Standard Packaged Equipment | 01/15/2019 3:45 - 04:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Leveraging IIoT to Boost Process Efficiency | 01/15/2019 3:45 - 04:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| New Low GWP Centrifugal Chiller & Commercial Packaged Rooftop Fan Technology | 01/15/2019 3:45 - 04:05 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Variable Frequency Drives: Method of Laboratory Test and a Case Study | 01/15/2019 4:00 - 05:00 | B313a | Free Industry Sessions |
| Panel Session: Convergence of Building Automation and IoT Applications | 01/15/2019 4:00 - 05:15 | B309 | Free Industry Sessions |
| Pre-insulated INCOTHERM® Pipe for the Conduction of Chilled and Hot Water | 01/15/2019 4:05 - 04:25 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Technology Update | 01/15/2019 4:15 - 04:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Introducing the New SmartServer IoT Edge Server for Building Management Systems | 01/15/2019 4:15 - 04:35 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Innovative Sedona Open Control with BASpi-BCC (BACnet Client Controller) Powered by Raspberry Pi3 | 01/15/2019 4:35 - 04:55 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Solutions for Common Venting High Efficiency Appliances | 01/15/2019 4:45 - 05:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Technology Connecting Solutions | 01/15/2019 4:45 - 05:05 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Using Smart Edge Controllers to Easily Manage a Flat and Open Network (BACnet IP, MS/TP, REST API) | 01/15/2019 5:05 - 05:25 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Air Curtains and Heaters, New Generation Devices, Innovation with Modern Industrial Design | 01/15/2019 5:15 - 05:35 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Jobber App: New Team, Scheduling, and Customer-focused Features Provide a Competitive Service Experience | 01/15/2019 5:15 - 05:35 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| BIM Technology Workflow | 01/15/2019 5:35 - 05:55 | Theater A - room C101 | Exhibitor Product & Technology Presentations |

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| Maximize ROI in Construction through BIM | 01/15/2019 5:45 - 06:05 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Zero-Maintenance, Zero-Visibility Solid State Micro-Climate Control | 01/15/2019 5:45 - 06:05 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| ASHRAE Certification Exams | 01/16/2019 8:00 - 12:30 | C213 | Certification Exams ($) |
| Commissioning Authority (CxA) Workshop & Exam (2 day program) | 01/16/2019 8:00 - 05:00 | C207 | Certification Exams ($) |
| New Construction Commissioning and ACP Exam (2 day program) | 01/16/2019 8:30 - 05:00 | Thomas Murphy Section 1 | Certification Exams ($) |
| UL 1738 (non-metallic vent standard for Categories II, III & IV) and the Introduction of System 1738 Flue Gas Venting | 01/16/2019 10:15 - 10:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| The All-new APCO-X Air & Coil Treatment System, Designed with the Contractor in Mind | 01/16/2019 10:25 - 10:45 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| High Performance Radiant Chilled Sails: Combining Aesthetics and High Energy Efficiency | 01/16/2019 10:25 - 10:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| The Concealed Air Conditioning Revolution | 01/16/2019 10:45 - 11:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Using 3M™ VHB™ Tape In Place of Conventional Fastening Methods | 01/16/2019 10:45 - 11:05 | Thomas Murphy Section 1 | Exhibitor Product & Technology Presentations |
| Hot Water with an IQ: On-demand Water Heaters & IoT Innovations | 01/16/2019 10:55 - 11:15 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| BoilerMag Air, Dirt, and Magnetite Separator - The Best Value Option | 01/16/2019 10:55 - 11:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Refrigerant Pressure Transducer Specifically Designed for Hermetically Sealed HVAC/R without O-rings | 01/16/2019 11:15 - 11:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Integration of DX 1x1 Air Conditioning Units into BACnet IP/MSTP or Modbus TCP/RTU | 01/16/2019 11:25 - 11:45 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| A “Mobile First” Approach to Operations Management Software Will Change Your Contracting Business | 01/16/2019 11:25 - 11:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Utilizing SMART Tools to Optimize Leak Testing, Processing, and Manufacturing | 01/16/2019 11:45 - 12:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Changing the Pollen Data Landscape | 01/16/2019 11:55 - 12:15 | Theater B - room C102 | Exhibitor Product & Technology Presentations |

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| The World’s First Embeddable Flat Rate Engine from the Pricing Experts | 01/16/2019 11:55 - 12:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| NEW E500 - Combustion Gas Analyzer for Residential HVAC Installation & Maintenance | 01/16/2019 12:15 - 12:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Facility Analytics [FDD, BI Engines & Analytical Dashboards]: Focus Resources on High Impact Tasks | 01/16/2019 12:25 - 12:45 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Yuston - The Pipe's Revolution | 01/16/2019 12:25 - 12:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| Overwhelmed with Attracting Customers? Introducing Journey 360 & Thriving in a Digital Marketing Age | 01/16/2019 12:45 - 01:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| The Future of Field Service Management with IoT | 01/16/2019 12:55 - 01:15 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Payzerware: Expand Your Maintenance Agreements | 01/16/2019 12:55 - 01:15 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| New Motor & Drive Solutions for the HVAC Industry | 01/16/2019 1:15 - 01:35 | Theater A - room C101 | Exhibitor Product & Technology Presentations |
| Legend Connect | 01/16/2019 1:25 - 01:45 | Theater B - room C102 | Exhibitor Product & Technology Presentations |
| Automatic Balancing Solutions | 01/16/2019 1:25 - 01:45 | Theater C - room C103 | Exhibitor Product & Technology Presentations |
| The Dirty Little Secret Associated with High Turndown | 01/16/2019 1:45 - 02:05 | Theater A - room C101 | Exhibitor Product & Technology Presentations |