

## Chapter History

This month I present to you from the history archives a summary of Chapter Meeting Technical Presentation Topics over the past 13+ years. I'm sure that you will agree that this extensive list of HVAC related subject matter that our small chapter has been able to present to its members is truly amazing. If you are not a regular attendee of chapter meetings, just look at what you have missed!

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Historian

<b>Date</b>	<b>Topic</b>
5/10/2016	Standard 189.1
4/21/2016	Making Net Zero Positive
4/12/2016	Energy Reduction Strategies from a Healthcare and Higher Education Perspective
3/8/2016	Monochloramine
2/18/2015	The ASHRAE Building Energy Labeling Program
1/13/2016	Isolation Room Design, Research, and Construction
12/8/2015	Flight 93 Visitor's Center Systems and Tour
11/30/2015	Air Barriers
11/18/2015	Fuel Oil System Components and Design
10/13/2015	Refrigerant Choices and Their Impact
4/21/2015	ASHRAE 90.1 - 2010/2013 Impact on Building Monitoring Systems
3/10/2015	Tour of a Greywater Recycling Facility
2/19/2015	Sustainable Hazard Resistant Construction Using Indigenous Materials
1/13/2015	Recent Trends in Laboratory Exhaust Systems
12/9/2014	CO2 Monitoring for Outdoor Airflow and Demand-Controlled Ventilation
11/19/2014	Seismic Bracing of Non-structural Components
10/14/2014	Variable Refrigerant Flow & Standard 15
5/13/2014	Captive Aire, Inc. Factory Tour
3/11/2014	Pros & Cons of Different Pipe Joinery Methods
2/18/2014	Theme Park Engineering
1/14/2014	Liquid Desiccant Air Conditioning Technology
12/9/2013	Smoke and Fire Damper Installation
11/20/2013	Proactive Approaches to Legionella Prevention
10/15/2013	Rooftop Unit Sound Attenuation
5/14/2013	Refrigerants and their Applications
4/18/2013	Commercial Kitchen Ventilation Energy Efficiency and Sustainability
3/12/2013	Economization in the Data Center
2/20/2013	Autonomous Flying Robots
1/8/2013	Sustainable Water Management
12/11/2012	Air and Dirt Separation
11/14/2012	Flue Gas Dewpoint; The Story Behind Condensing Boiler Operational Performance
10/9/2012	Differential Pressure Control in Hydronic Systems
5/2/2012	USGBC
4/19/2012	Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ
3/13/2012	Computational Fluid Dynamics
1/10/2012	Fire and Explosion Suppression

12/13/2011	Critical Airflow Applications
11/16/2011	EPA Emissions Regulations for Boilers
10/13/2011	Heat Transfer Steam Systems
5/10/2011	Tour of Gamesa Windmill Blade Manufacturing
4/26/2011	LEDs - Bridging Technology for Outdoor Applications
4/21/2011	Geothermal Heat Pumps
3/17/2011	Kitchen Hood and Fire Suppression
1/11/2011	Centralized Water to Water Heat Pump Systems and Dedicated Heat Recovery Chillers
12/14/2011	Noise Control
10/12/2010	How to Implement Demand Control Ventilation and Comply with ASHRAE Standards
9/16/2010	Meet the GBA of Laurel Highlands and Tour the New Artworks Building
5/11/2010	Tour of Ebensburg Cogen Plant
4/21/2010	Commissioning
4/13/2010	Current Issues in IEQ
3/9/2010	Geothermal Domestic Hot Water Heating
1/12/2010	Tour of Eber HVAC Sheet Metal Shop
12/8/2009	Variable Refrigerant Flow System Efficiencies
11/18/2009	Siesmic Bracing & Expansion Loops
10/13/2009	Laboratories and HVAC
4/18/2007	Mold Awareness
3/20/2007	Global Warming & Energy Conservation
2/22/2007	Mathematics with Oil and Gas Management
1/9/2007	Variable Primary CHW Systems
12/12/2006	Variable Refrigerant Flow
11/15/2006	Insulation Products
10/10/2006	Retrocommissioning
4/19/2006	Sustainability and the Building Environment
4/12/2006	Panel Discussion Night on Green Buildings
3/14/2006	Energy Analysis, Option or Necessity?
1/10/2006	HVAC Duct Construction Standards
12/13/2005	ASHRAE Standard 62-2004
11/16/2005	Alternative Joinery
10/11/2005	Thermal Storage
5/24/2005	Tour of Altoona Hospital's Medical Surgical Building
4/12/2005	Panel Discussion on Various HVAC Problems
3/15/2005	ASHRAE Standard 90.1
1/11/2005	Risk Assessment / Risk Management in Health Care
12/15/2004	Boiler Codes
11/17/2004	Variable Speed Drives for Pump Systems
10/12/2004	Pennsylvania Building Codes
5/25/2004	Tour of DNR building in Ebensburg & Curve Game
4/13/2004	HVAC Problems Affecting both Architects and Engineers
3/9/2004	Negotiating Skills
1/13/2004	Tour of Hiram G. Andrews Boiler and Chiller Plants
11/13/2003	Opportunities in Pennsylvania's Electricity Market