



Johnstown ASHRAE December 2014 Meeting

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- Topic: CO₂ Monitoring for Outdoor Airflow and Demand-Controlled Ventilation
- Date: Tuesday, December 9, 2014
- Location: Boulevard Grille
165 Southmont Blvd
Johnstown, PA 15905
- Speaker: Tom Lawrence, Ph.D., P.E., LEED AP
- RSVP to Luke Shumaker (lshumaker@hflenz.com)
by 12 PM, Friday, December 5, 2014
- Cost: \$25 per Person
- **Buffet Dinner**
 - Stuffed Chicken Breast
 - Stuffed Shells
 - Garlic Smashed Potatoes
 - Corn
 - Cheesecake
 - Soft drinks and coffee included
 - Cash bar
- Time: 5-6 pm: Social Hour
6-8 pm: Dinner/Presentation



Distinguished Lecturer



Dr. Thomas Lawrence is a Senior Public Service Associate with the University of Georgia, and has over 30 years of professional experience. Before going back for his Ph.D. in Mechanical Engineering at Purdue, he spent approximately 20 of those years in industry and consulting. He is the past chair of ASHRAE Technical Committee 2.8, “Building Environmental Impact and Sustainability”, and is a member of the committee which wrote the ASHRAE standard on high-performance green buildings (Standard 189.1). As an ASHRAE Distinguished Lecturer, he gives presentations and workshops on green building design at venues around the world. At the University of Georgia, Dr. Lawrence is the coordinator for the mechanical engineering degree program and he teaches courses in HVAC, Green Building Design, Residential Building Design, and Heat Transfer.

Dr. Lawrence has a B.S. with Highest Distinction honors in Environmental Science from Purdue University (1978), a M.S. in Mechanical Engineering from Oregon State University (1982) and a second M.S. degree in Engineering Management from Washington University earned in 1989. He received a Ph.D. in Mechanical Engineering from Purdue University in the spring of 2004 researching the impacts of demand-controlled ventilation on energy consumption and indoor air quality in smaller commercial buildings.

“CO₂ Monitoring for Outdoor Airflow and Demand-Controlled Ventilation”

A number of programs and standards that exist for buildings today specify the use of outdoor air monitoring. Monitoring is to be done either based on CO₂ levels in the occupied space or actual measurement of outdoor airflow, depending on the space design occupancy and ventilation type (mechanical or natural). Current standards or program descriptions do not provide detailed guidance for determining what level of CO₂ should be considered the maximum concentration to expect, and those that do provide guidance are generally based on a single value above the ambient concentration. This session describes how to determine a level for CO₂ concentrations for an outdoor airflow monitoring program or as part of the upper control limit for a demand-controlled ventilation system.

+1 PDH AND AIA/GBC continuing education credits

President's Message



Dear Members:

I hope you all had a joyous and safe Thanksgiving holiday. Good luck to any hunters heading out into the wintry mix! As we continue through the holiday season, we continue to prepare program offerings for our membership and CRC in 2015. I urge you to join us for a special presentation with ASHRAE Distinguished Lecturer, Tom Lawrence this month. The topic will be on CO2 monitoring and is approved for one PDH. Please invite your friends from AIA and GBC, as this qualifies for continuing education credits too!

Please mark your calendars for January's meeting featuring a discussion on Laboratory Exhaust with Joe Thorndal from Greenheck. Please join us on Tuesday, January 13th at The Boulevard for some post-holiday socializing and an engaging topic.

Finally, I wish you all a very merry Christmas and a happy New Year!

Thank you,

Chris Conrad
Chapter President

Calendar of Events

ASHRAE Johnstown Chapter 2014-15 Schedule of Events

Meeting Date	Theme/Events	Topic	Speaker	Location
September 18, 2014	Sporting Clays	RP Social Event	<i>Let your aim do the talking</i>	7 Springs Resort
October 14, 2014	Student Activities / YEA	VRF & Standard 15	Dave Heckler	Boulevard Grill Warehouse Room Johnstown, PA
November 19, 2014	ASPE Joint Meeting	Seismic Bracing of Non-structural Components	Eric Grant	Rizzo's Italian Restaurant Windber, PA
December 9, 2014	Distinguished Lecturer Membership Promotion	CO2 Monitoring for Outdoor Airflow and Demand Controlled Ventilation	Thomas M. Lawrence	Boulevard Grill Johnstown, PA
January 13, 2014	Research Promotion	Energy Recovery in Laboratories	Joe Thorndal	Boulevard Grill Johnstown, PA
February 10, 2014	Awards Banquet Student Activities	TBD	TBD	University of Pittsburgh at Johnstown
March 10, 2014	Joint Meeting	TBD	TBD	TBD
April 23, 2014	ASHRAE Webcast	New Tomorrows for Today's Buildings	Existing Building Commissioning	H.F. Lenz
May 12, 2014	Technical Tour	TBD	TBD	TBD

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