



Northeast Chapter

Thermal Briefs

NOVEMBER 2015

NOVEMBER MEETING Tuesday, November 17, 2015

**What is PID Control: Usage, Constraints, PID Blocks,
Proper Configurations, and Accel/Decel/Starting/
Sleep/Pressure Boost**

By Kevin Diehl

1 PDH credit PENDING APPROVAL

12:00pm – Lunch and Presentation

Italian American Community Center, Washington Ave Ext

Members - \$30 (\$40 with PDH)

Non-Members - \$35 (\$45 with PDH)

Students - \$15

RSVP to Tim Houle no later than Thursday, November 12th

Thoule@advancedcomfortsys.com or 518-884-8444 x3439

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Seminar Description:

Presentation will define the aspects of P.I.D. control. It will entail defining what this type of control is/means and where it is used. This includes reviewing each section of Proportional, Integral and Derivative along with their combined effects on processes. Additionally it will look at the effect of P.I.D. as it relates to speed control and functions within drives that are interacted with when setting up a system.

Expected time is 50 mins - 60 mins.

Presenter:

Kevin Diehl

Yaskawa America Inc - AC Drive Sales Engineer

BSET Degree - Rochester Inst. of Technology

28 Years field experience in applying drives selling through the manufacturer and distribution channel.

Message from the President

Our October meeting was our first program for the 2015-16 chapter year and I am very happy that we had one of our own Chapter Past Presidents, Khaled Yousef, as the presenter. We had a respectable turnout, thank you to those of you who joined us. I hope you enjoyed the presentation as much as I did and that we can keep the monthly program attendance up. If you have any recommendations for program topics that you would find interesting, please share your ideas with any one of our chapter officers. And by all means please encourage your colleagues and new hires to join the chapter.

Having our meetings during lunch can be difficult sometimes when you are facing a deadline and may feel pressured to stay at the office to keep your nose to the grind. But please do try to join us whenever you can, it's the best way to get the most value from your ASHRAE membership. You learn about interesting topics, earn PDH credits for most programs, and meet a variety of interesting and knowledgeable people in the industry.

I can't believe how quickly time is flying; the Halloween decorations are going away and now it's time to look ahead to the yearend Holidays already! Soon we'll be celebrating the new year, and my term as Chapter president will seem to have come and gone in the blink of an eye. I hope that I can look back and say that I've had a positive impact on the ASHRAE Northeast Chapter. I know that I'm definitely learning a lot in the process.

Sincerely,

Dan Williams

2015-2016 Northeast Chapter President

Message from the Newsletter Editor

Greetings! There has been a somewhat recent change in our payment structure, in case you're not aware: Paypal is now a feature on our website! <http://northeast.ashraechapters.org/>

Essentially, you can now pay ahead for our monthly lunch meetings. No more fiddling with credit cards, checks, or cash; unless that's what you want to do, in which case, we'll still happily accept those forms of payment. Registration for our annual golf outing can also be paid via Paypal.

If you have any questions pertaining to this, please let us know. If you have any suggestions regarding the newsletter, please shoot me an email at adam.feather@trane.com. Thanks!

Refrigeration Article

Members,

Speaking of refrigeration...how about the cold?

You might remember a couple of years ago we assisted the CITY MISSION of Schenectady in a toy drive. So we need to start now if Northeast ASHRAE is going to make it in time for Christmas Day.

The priority of need is the following:

Men's winter coats and boots (USED) any sizes

Men's underwear, sizes L/XL/2X/3X (NEW)

Men's white tee shirts, sizes L/XL/2X/3X (NEW)

The City Mission has 75 men staying with them each night and clean clothes are a dire need.

CASH \$\$\$\$\$\$ is always welcome and your check should be made out to City Mission Schenectady and I will make sure you will get a letter for tax purposes.

All items will be collected at the December ASHRAE meeting.

God Bless...

Ray Hickey

Current PAOE Chapter Summary

Membership Promotion	Student Activities	Research Promotion	Historical	Chapter Operations	Chapter Technology Transfer	Chapter Grassroots Government Activities	Chapter PAOE Point Totals
425	-	-	-	275	-	-	-

PAOE stands for the Presidential Award of Excellence and is a point system used within ASHRAE to **evaluate the success of each chapter**. Officers and grassroots chairs have the opportunity to earn PAOE points based on achievements and accomplishments designated by the ASHRAE Society President. Example activities for earning PAOE points include starting a new student chapter, holding at least eight regular chapter meetings in a year, and educating non-members about ASHRAE technologies and goals.

Honors and Awards

Congratulations to ASHRAE Northeast member **Dr. Bill Gerstler**, whose nomination by this chapter for **ASHRAE Fellow** has been accepted. ASHRAE Fellows are Members who have attained distinction in the fields of heating, refrigeration, air conditioning, ventilation or the allied arts and sciences through invention, research, teaching, design, original work, or as an engineering executive on projects of unusual or important scope. The individual must have made substantial contributions and have been a full grade member in good standing for at least ten years prior to the date of their election.



Dr. Gerstler's service to the ASHRAE Northeast Chapter includes two years as Membership Promotion Chair, for which he received the Thomas S. Brown Membership Award for Society year 2004-2005. He went on to serve the chapter through the Officer positions and became the Chapter President for Society year 2008-2009. He received the Region I Award for Outstanding Chapter Programs in 2007-2008. Bill also received the Society's Homer Addams Award for his work on 745RP the Characterization of Cooking Effluent research project.

His commercial kitchen research has significantly advanced the field. It resulted in a fundamental understanding of commercial kitchen processes effluent emission - thus allowing for proper effluent handling solutions. Advancements in effluent capture and containment, grease removal devices, and acceptable air velocities in kitchen ducts were made. NFPA 96 was changed directly due to his work on duct air velocities - resulting in less grease build-up, reduce fire hazard, and reduced energy use. His work on a membrane-based absorber/evaporator has the potential for significant advancement in the area of LiBr absorption refrigeration. While many practical issues remain prior to commercialization, the concept and fundamental principles have been shown to be sound. The technology allows for air cooled LiBr absorption - greatly enhancing the possibilities for waste heat powered cooling.

Some fond memories from Dr Gerstler include the "First ever ASHRAE related meeting and introduction to the demeanor of professional engineers – 1995 with members of the TC 5.10 member visiting the University of Minnesota to kick-off our new ASHRAE research project. We held the meeting in a Student Union conference and as we were waiting at the elevator in the Union Atrium the O.J. Simpson Verdict was read. While the students in the atrium erupted in reaction to the verdict, all the ASHRAE professionals calmly entered the elevator and proceeded with the business at hand.”"

Honors and Awards

Another great memory is the “2000 ASHRAE annual meeting in Minneapolis – Completion and final report out of our ASHRAE research project, while getting to host the TC 5.10 members in our town. The meeting was especially memorable because I received the Homer Addams Award and my wife was able to attend the award ceremony.”

“Working with a great team during my 2008-2009 year as ASHRAE Northeast President. Officers included: Christine Lazzar, Mark Cambria, Mike Carr, Nick Casale. Committee Chairs: Heather Alexander, Gene Hickok, Stan Westoff, Ray Hickey, Tim Houle, Khaled Yousef. BOGer’s: Dennis Boyce, Brian Sexton, and Dan Williams. We won the Region 1 Golden Boots award that year – the highest Regional honor for a chapter. Very proud of the hard work everyone put into that year!”

“Preparation and hosting of the 2009 Region 1 CRC in the Albany area. I fondly recall all the meetings and work sessions set-up and hosted by Gerard and led by Stan. It was quite a learning experience to work with some of the most accomplished leaders and self-less volunteers from the ASHRAE Northeast Chapter to pull off the hugely successful event.”

Lots of great memories here of your work with ASHRAE and our regional chapter –

Congratulations Bill!

Message from Membership Promotion

Did you Know...

- Our Chapter's Student Members have increased from 4 to 11 since January? Great job **Dave Ricci!!**
- Members testify: The time to Join ASHRAE is BEFORE you start job hunting not after.
- ASHRAE's **SmartStart Program** allows a reduced membership rate for graduating students transitioning to the job market; available for 6 months after graduation for existing student members only.
- We will be releasing an electronic version of the Roster in 2016? **Go check your Bio online & email us** if you make a change.

Our Northeast Chapter will only be as good as WE make it. So if you are dissatisfied or wish we could do things differently, or have better ideas than what you see now, **COME JOIN THE LEADERSHIP TEAM!** Tell us what you're interested in, and we'll connect you where needed or your talents lie.

HELP WANTED:

Government Grassroots Activities Chair
Membership Promotion Subcommittee Position
Chapter Roster Committee Position

Meet Our Members

Returning:

Mr. Jason Clemente

**Make sure you give a warm
Welcome to our New Members when you meet them!**

Ms. Patricia Mason Fritz
Mr. George John Fetchko III

Huston Engineering

Welcome back!

Questions? Contact Membership Promotion at Liesl.Hammer@gmail.com

Message from the Chapter Historian

The year was 1989-90 and the Northeast Chapter officers and chairs attended the Chapters Regional Conference (CRC). Tim Gannon was President.

The Annual Steak Roast was held September 18, 1989 at the Western Turnpike Golf Club with 135 golfers who teed-off at 9:00 AM. 307 people attended the steak roast and \$1064 worth of 50/50 raffle tickets were sold with \$532 going to ASHRAE Research Promotion. Bill Seward made a 77 on the course and won the Thomas S. Olesko Golf Trophy.

A volleyball tournament was held with six corporate teams participating. Honeywell would defeat WPS Consulting Engineers in the final match with a score of 15-11 to take the trophy. Arthur R. Bergles a professor at RPI has been named ASME 1990-91 President-Nominee by the 1989 National Nominating Committee.

Raymond Albrecht has been appointed as Vice – Chairman of Research Promotion at Region I. Stanley Westhoff has been appointed as Chairman of the Refrigeration Committee for the Society.

And that is the way it was in 1989-90.

Northeast Chapter Historian

Stan Westhoff





The one and only Khaled Yousef presenting at our October 2015 meeting.

Northeast Chapter Officers and Board of Governors 2015-16

Chapter President:	Dan Williams
President Elect/CTTC/Program Chair:	David Houle
Vice President/ Newsletter Editor:	Adam Feather
Treasurer:	Kendra Potasiewicz
Secretary:	Trevor Gensch
Board of Governors	Russ Danforth
Board of Governors:	Gregory Kirkpatrick
Board of Governors:	Todd Turcotte
Board of Governors:	John Thomas
Board of Governors:	Tim Houle
Board of Governors:	Douglas Belokopitsky
Honors & Awards Chair:	Kristin Gustafson
Membership Chair:	Liesl Hammer
Student Activities Chair:	Dave Ricci
Research Promotion Chair:	Chris Schmidt
Refrigeration Chair	Ray Hickey
Historian:	Stanley Westhoff

Please consider volunteering for a regional or society level position or let us know if you think of anybody who would be good for any of the positions listed at the following link:

<https://www.ashrae.org/society-groups/committees/>

If you have a professional relationship with any local government officials, please let us know!

The ASHRAE Northeast Chapter would like to reach out to them to promote sustainability topics. Government officials might include school board, state or provincial legislative committee, state or provincial agency, city council, county board, etc.

Employment Opportunities

We are currently accepting employment opportunity advertisements for this year's newsletters. We have revised our cost for these postings. Rather than a set 'price' there is no cost, but we do highly encourage and appreciate any and all donations to RP, to aid in reaching our RP fundraising goal. Again, the newsletter is distributed to OVER 200 RECIPIENTS each month!

Interested in placing an ad? Please contact me at adam.feather@trane.com.

Business Card Ads

The ASHRAE Northeast Chapter would like to thank the following sponsors for choosing to help us by making a donation to ASHRAE Research Promotion:

We are currently accepting business card advertisements for this year's newsletters. The cost of a business card ad is \$10.00 per month (this money goes directly to Research Promotion; it is not income for our chapter operations).

If you list an ad for the remainder of the year you will receive 1 month free and your ad will circulate to **OVER 200 RECIPIENTS** each month!

Interested in placing an ad?

Please contact me at adam.feather@trane.com.

ASHRAE Learning Institute

Seminars & Courses at ASHRAE's Winter Conference in Orlando, FL

2 WAYS TO REGISTER

Internet: www.ashrae.org/orlandocourses

Phone: Call 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Full-Day Professional Development Seminars

\$485/\$395 ASHRAE Member -- Earn 6 PDHs/AIA LUs or .6 CEUs

Commercial Building Energy Audits

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Commissioning Process in New & Existing Buildings

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Designing HVAC Systems to Control Noise & Vibrations

Saturday, January 23, 2016 – 8:00 a.m. to 3:00 p.m.

Energy Modeling Best Practices and Applications

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

Operations & Maintenance of High-Performance Buildings

Tuesday, January 26, 2016 – 9:00 a.m. to 4:00 p.m.

Half-Day Short Courses

\$159/\$119 ASHRAE Member -- Earn 3 PDHs/AIA LUs or .3 CEUs

Laboratory Design: The Basics and Beyond

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Troubleshooting Humidity Control Problems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Understanding & Designing Dedicated Outdoor Air Systems

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Variable Refrigerant Flow System Design & Applications **NEW!**

Sunday, January 24, 2016 – 3:30 p.m. to 6:30 p.m.

Air-to-Air Energy Recovery Applications: Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Applications of Standard 62.1-2013

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Building Demand Response & the Coming Smart Grid

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Energy Management Best Practices

Monday, January 25, 2016 – 8:30 a.m. to 11:30 a.m.

Advoiding IAQ Problems

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Commissioning Process & ASHRAE Standard 202

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Complying with Standard 90.1-2013: HVAC/Mechanical

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Evaluation and Control of Legionella in Building Water Systems **NEW!**

Monday, January 25, 2016 – 2:45 p.m. to 5:45 p.m.

Exceeding Standard 90.1-2013 to Meet LEED Requirements

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

IT Equipment Design Evolution & Data Center Operation Optimization

Monday, January 26, 2016 – 9:00 a.m. to 12:00 p.m.

Designing High-Performance Healthcare HVAC

Monday, January 26, 2016 – 1:00 p.m. to 4:00 p.m.

ASHRAE HVAC Design Training

2 Courses, 5 Days of Intense Instruction

Atlanta • Halifax • Hong Kong • Houston

HVAC Design: Level I – Essentials - Registration is \$1,264 (\$1,009 ASHRAE Member)

Gain practical skills and knowledge in designing and maintaining HVAC systems that can be put to immediate use. The training provides real-world examples of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection using the newly renovated ASHRAE Headquarters building as a living lab.

HVAC Design: Level II – Applications - Registration is \$854 (\$699 ASHRAE Member)

HVAC Design: Level II — Applications provides instruction on HVAC system design for experienced HVAC designers and those who complete the HVAC Design: Level I – Essentials training. The training provides information that allows practicing engineers and designers an opportunity to expand their exposure to HVAC systems design procedures for a better understanding of system options to save energy.

Visit www.ashrae.org/hvactraining to register.

ASHRAE, founded in 1894, is a building technology society with more than 50,000 members worldwide. The Society and its members focus on building systems, energy efficiency, indoor air quality, refrigeration and sustainability. Through research, standards writing, publishing, certification and continuing education, ASHRAE shapes tomorrow's built environment today.

