

# Steel City Flyer



**American Society of Heating, Refrigerating and Air-conditioning Engineers**

Pittsburgh Chapter of ASHRAE and  
Pennsylvania Trane

*Present*

A Tour of PNC Park and  
NRG Thermal Energy Center  
For STUDENT NIGHT

Monday, April 16, 2007

5:30 pm to 6:15 pm – Tour of NRG Thermal  
6:30 pm to 7:30 pm – Dinner Buffet at PNC Park  
7:30-8:00- Tour of PNC Park  
(No board meeting this month)

Meet in front of the Control Room Door on the  
western side of Allegheny Commons. Map included.

**\$30** Member & RSVP  
**\$35** Non-member or Walk-in  
\$0 Student Members

RSVP to Karen Boyle at [kboylejdm@aol.com](mailto:kboylejdm@aol.com)  
(phone 412-922-5300, fax to 412-922-0208)

[pittsburgh.ashraechapters.org](http://pittsburgh.ashraechapters.org)

PNC Park, which opened in 2001, was part of the most recent revitalization of Pittsburgh. The home of the Pittsburgh Pirates is continually ranked among the top ballparks in major league baseball. The tour will include the mechanical systems of the facility including the chilled and hot water distribution, air distribution, and building automation systems. The tour will also take us through some of the other facilities in the park including the luxury boxes, clubhouse and training facilities.

The tour of PNC Park will also include a tour of NRG Thermal Energy Center north side plant (located beside the Federal Street Post office), which serves PNC Park as well as Allegheny General Hospital, Community College of Allegheny County, Allegheny Center, Andy Warhol Museum, Carnegie Science Center as well as many other north side buildings. This hybrid plant consists of 8,000 tons of steam turbine driven chillers and 4,400 tons of electric driven chillers powered by high pressure steam boilers producing 240,000 lb./hr of steam. This system can provide heating *and cooling* during extended power outages. Chilled water and high pressure steam is distributed throughout the north side through extensive underground piping system. This unique system was recently upgraded to use primary-variable-flow chilled water distribution.

## Inside...

Page 2 – Map of Northside for Tour

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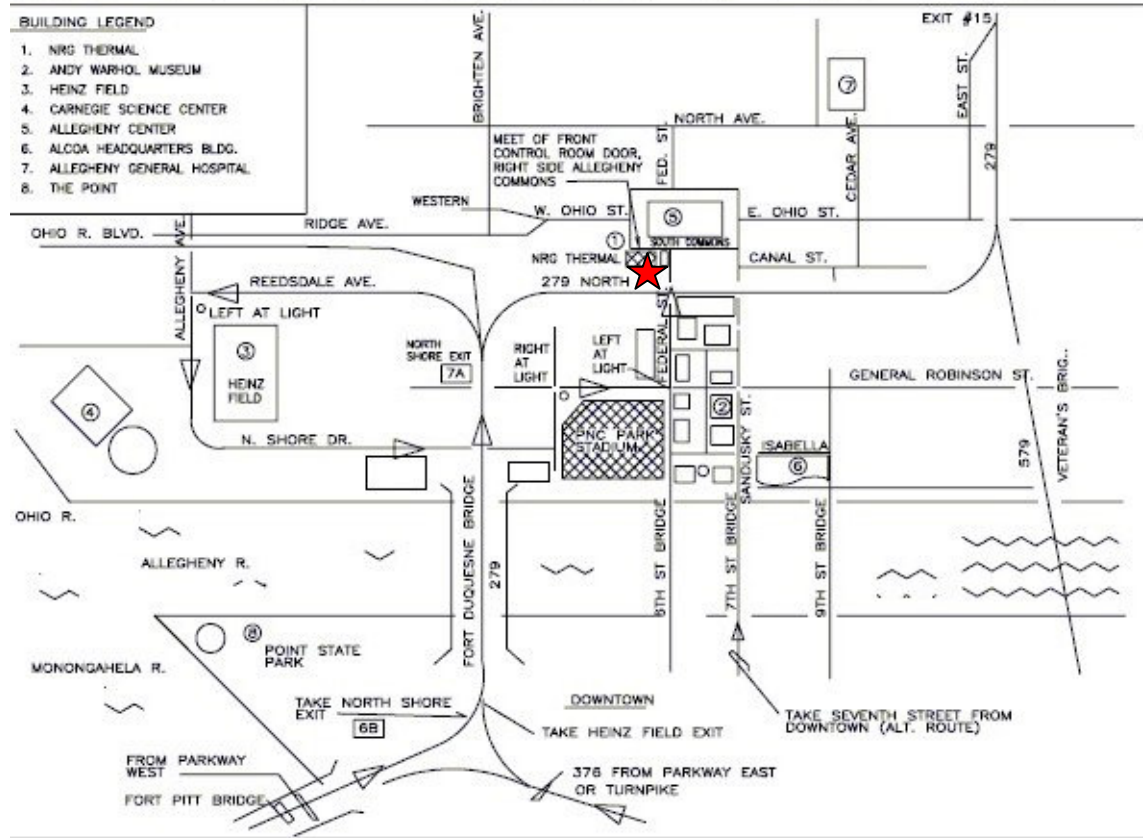
Page 5 – ASHRAE Research News

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# MAP TO NRG THERMAL & PNC PARK



# President's Note:

For those of you who couldn't make it to last month's meeting, the topic was an alternate perspective on the issue of global warming. Take it or leave it, the attendees participated in one of the most open discussions at a dinner meeting that I have seen in my short time in ASHRAE. A very special thanks to our speaker Mr. Victor Goldschmidt of Purdue University and to our CTTC organizer, Steve Alauzen for last month's program.

To give you some updates on your Chapter's internal workings, here is what's been going on behind the scenes:

- The website is back up and running again. Thanks for your patience as we worked out the kinks with the new servers.
- The May meeting slot has been filled: Mr. Art Bell and Mr. Ron Mann of Astorino will give an encore presentation (with some new lessons learned) of their August 2006 CRC presentation on Intelligent Buildings with a case study of the Systems Integration Contract of the Children's Hospital of Pittsburgh project. The presentation will be held at Tambellini's on Route 51. See next month's newsletter for more information.
- The 2007 Resource guide is currently in the editing phase. We then need to review a draft copy prior to its full publication, which will be available in May.
- The golf outing invitations are almost ready, and will be in the mail shortly.

If you can find the time, take a look at some of the ASHRAE weblinks on page 7 – there are some very important topics to make note of. For instance, ASHRAE now has a certification program for health care design professionals. There is also the opportunity to review the addenda for Standard 62.1 which will include requirements for cleaning outside air. ASHRAE is also looking for design/build firms to participate in the formation of a Design/Build Task Group. I know that some of these topics will be beneficial to our members.

Finally this month we turn our attention to a little spring fun: a tour of NRG Thermal Energy Center and PNC Park. I can't think of a better way to get our high school and college students excited about engineering than to invite them along and show them what our industry is all about. That is why we are promoting this meeting as Student Night. You may have also noticed that we need to charge a slightly high fee for attending members due to the high cost of the tours. The Pittsburgh Chapter would also like to recognize Pittsburgh Trane for being a sponsor of this event and helping us cover the additional cost.

I hope you can join us for an engineering focused night at the ballpark!

Sincerely,

Christopher L. Conroy, PE  
President  
Pittsburgh Chapter of ASHRAE

# 2006 / 2007 Calendar of Events

DATE	TOPIC	SPEAKER	LOCATION
09/18/2006 (Monday)	<b>Variable Refrigerant Flow Systems</b> c/o Chris Conroy	David Heckler <i>Comfort Supply, Inc.</i>	Louis Tambellini Restaurant, Route 51
10/16/2006 (Monday)	<b>Advances in Dessicant Dehumidification</b> c/o Steve Alauzen	Art Hallstrom, PE <i>Trane</i>	Louis Tambellini Restaurant, Route 51
11/20/2006 (Monday)	<b>Variable Speed Boosting Systems</b> c/o Chris Morgan Student Night	Andy Ondish <i>Grundfos</i>	Louis Tambellini Restaurant, Route 51
12/11/2006 (Monday)	<b>Texas Hold'em Poker Tournament Fund Raiser</b> c/o Chris Conroy Membership & Research Promotion	None	Ober Brau Haus Pittsburgh Brewing
1/15/2007 (Monday)	<b>Boiler Basics &amp; Boiler Efficiencies</b> c/o Chris Morgan	Bob Morgan <i>Raypak, Inc.</i>	Louis Tambellini Restaurant, Route 51
2/19/2007 (Monday)	<b>Application of UV Lamps in Air Systems</b> c/o Dave Staffen Past President / Research and CRC Donor Recognition	Bruce Fontaine <i>Ultraviolet Devices Inc.</i>	Louis Tambellini Restaurant, Route 51
3/19/2007 (Monday)	<b>Global Warming – Fact or Fiction?</b> c/o Steve Alauzen AEE & GBA Joint Meeting	Victor Goldschmidt <i>ASHRAE</i> <i>Distinguished Lecturer</i>	Louis Tambellini Restaurant, Route 51
4/16/2007 (Monday)	<b>Tour of PNC Park and Pitt Thermal</b> c/o Pittsburgh Trane Student Night	Jim Laguardia <i>CB Richard Ellis</i>	PNC Park and Pitt Thermal on the Northside
5/21/2007 (Monday)	<b>Intelligent Buildings</b> c/o Chris Conroy	Art Bell, PE and Ron Mann, RCDD <i>Astorino</i>	Louis Tambellini Restaurant, Route 51
06/25/2007 (Monday)	<b>ASHRAE Golf Outing</b> c/o Dawn Patitucci Membership Promotion	None	Shannopin Country Club

# Resource Promotion News

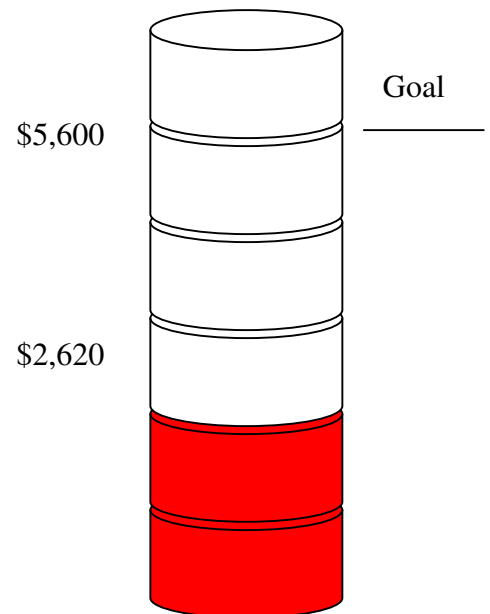
**THANK YOU** to the following companies / individuals for their participation in the current 2006-2007 **Full Circle Award Winning Research Promotion** campaign:

**Major Donor (\$250-\$2,499):**

Christopher L. Conroy      Charles E. Marsteller

**Honor Roll Donor (\$100-\$249 individual / \$150-\$249 corporate):**

Filtech, Inc	Kurt Scheer	Tim Miller
Paul L. Baker	Dave Hermann	Dennis Kronz
Curt Marsh	Art Bell	Chris Morgan
Jeff Zacherl		



**General Donor (<\$100 individual / <\$150 corporate):**

Hugh Muller	Donwill Company
Stanley Biel	Danelle Ardell

**Fund Raising Contributions**

2005/2006 ASHRAE Golf Outing - \$290  
2006 Region III – Pittsburgh CRC - \$400  
2006 Texas Hold'em Fund Raiser - \$140 (c/o Jeff Bretton)

ASHRAE Research is an important part of our industry. It influences the way we make a living and the way we live. PLEASE join me today and make a tax deductible commitment to support this vital endeavor and help us reach our donation goal in 2006/2007!



Kurt A. Scheer - Resource Promotion Chairman  
**BDA Engineering, Inc.**  
19 35th Street  
Pittsburgh, PA 15201  
412/682-3603  
412/682-3605-Fax  
[www.bdaengineering.com](http://www.bdaengineering.com)

**ASHRAE RESEARCH - Donor Form**  
**Pittsburgh Chapter # 24 Region III**

**1) Type of Contribution:**

- Individual       Memorial To: \_\_\_\_\_  
 Corporate      Please attach the details for the acknowledgement to,  
Relationship to, and addresses.

**2) Level of Contribution:**

- Golden Circle (\$10,000 and greater)  
 Research Partner (\$5,000-\$9,999)  
 Research Associate (\$2,500-\$4,999)  
 Research Major Donor (\$250-\$2,499)  
 Research Honor Roll Donor - Individual (\$100-\$249)  
 Research Honor Roll Donor – Corporate (\$150-\$249)  
 Research General Donor (Less then \$100 Individual/\$150 Corp.)

**3) Method of Payment:**

- A) Attach Check (Payable to ASHRAE Research)  
Please note on check “Pittsburgh Chapter #24”  
B) Credit Card  
    -Visa      -Master Card      -AMEX  
    Date: \_\_\_\_\_      Signature: \_\_\_\_\_  
    Card # : \_\_\_\_\_      Exp. Date: \_\_\_\_\_

**Note: All contributions are fully deductible under section 170 of the IRS.**

**4) Donor Information:**

Name: \_\_\_\_\_  
Member # (If ASHRAE member): \_\_\_\_\_  
Corporation Name (If Corp. Donation): \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Phone : Home: \_\_\_\_\_ Business: \_\_\_\_\_  
E-Mail: \_\_\_\_\_

**5) Send the check and this completed form to:**

Kurt A. Scheer - Resource Promotion Chairman  
**BDA Engineering, Inc.**  
19 35th Street  
Pittsburgh, PA 15201  
412/682-3603  
412/682-3605-Fax  
www.bdaengineering.com

# ASHRAE Society News

Click on the links below to read more about the topics published by Society:

20 Project Funded: Clear Ice Maker Developed Through ASHRAE Grant

<http://www.ashrae.org/pressroom/detail/16197>

ASHRAE Seeks Members for Contractor, Design Build Firm Task Group

<http://www.ashrae.org/pressroom/detail/16199>

Sustainable Buildings Highlighted in ASHRAE Online Seminar

<http://www.ashrae.org/pressroom/detail/16204>

Engineers Without Borders Founder to Speak at ASHRAE '007

<http://www.ashrae.org/pressroom/detail/16205>

ASHRAE Announces Healthcare Design Professional as First Certification

<http://www.ashrae.org/pressroom/detail/16208>

ASHRAE to Host D.C. Briefing on Limiting Greenhouse Gas Emissions

<http://www.ashrae.org/pressroom/detail/16209>

5 Addenda Open for Review: Outdoor Air Cleaning Proposed as Requirement for ASHRAE 62.1

<http://www.ashrae.org/pressroom/detail/16210>

ASHRAE to Fund Research on Operating Room Air Distribution

<http://www.ashrae.org/pressroom/detail/16211>

Proposed 90.1 Addendum Would Allow More Efficient Skylighting

<http://www.ashrae.org/pressroom/detail/16212>

ASHRAE Public Review Process Makes for Stronger Standards

<http://www.ashrae.org/pressroom/detail/16214>

ASHRAE Sponsors One-Year Washington Fellowship

<http://www.ashrae.org/pressroom/detail/16215>

ASHRAE Names Nine New Distinguished Lecturers

<http://www.ashrae.org/pressroom/detail/16216>

ASHRAE Grants: Student Studies Impact of Noise Levels on Design

<http://www.ashrae.org/pressroom/detail/16217>

# ASHRAE Society News

Click on the links below to get more information on the Society topics:

Terry Townsend's 2<sup>nd</sup> Quarter Update

<http://www.ashrae.org/aboutus/page/30>

ASHRAE Learning Institute Spring 2007 Online Course Series

<http://www.ashrae.org/education/page/1204>

ASHRAE Satellite Broadcast – Indoor Environmental Designs

<http://www.ashrae.org/education/page/557>

**Hosted locally by Pittsburgh Trane and PSU Fayette– Contact Steve Alauzen or Dave Meredith for more information**

ASHRAE Satellite Broadcast DVD – Enhance Your Building Security

<http://resourcecenter.ashrae.org/store/ashrae/newstore.cgi?itemid=28905&view=item&categoryid=297&categoryparent=297&page=1>

ASHRAE Student Activities Newsletter

[http://www.ashrae.org/doclib/20070309\\_samarch2007.pdf](http://www.ashrae.org/doclib/20070309_samarch2007.pdf)

ASHRAE Members First Newsletter

[http://www.ashrae.org/doclib/20070308\\_MembersFirstVol2Issue3Mar07.pdf](http://www.ashrae.org/doclib/20070308_MembersFirstVol2Issue3Mar07.pdf)

ASHRAE Student Member Internship Program

<http://www.ashrae.org/students>

Engineers Week Newsletter

[http://www.magnetmail.net/actions/email\\_web\\_version.cfm?recipient\\_id=16230011&message\\_id=283023&user\\_id=NSPE](http://www.magnetmail.net/actions/email_web_version.cfm?recipient_id=16230011&message_id=283023&user_id=NSPE)

YEA (Young Engineers in ASHRAE) Leadership Weekend

[http://www.ashrae.org/doclib/20070301\\_YEALeadershipRegMailing.pdf](http://www.ashrae.org/doclib/20070301_YEALeadershipRegMailing.pdf)

# ASHRAE Region III News

## ASHRAE Region III – Regionaire

July 2006 Regionaire

<http://region3.ashraeregions.org/July 06 Regionaire.pdf>

November 2006 Regionaire

<http://region3.ashraeregions.org/Nov 06 Regionaire.pdf>

February 2007 Regionaire

<http://region3.ashraeregions.org/Feb 07 Regionaire.pdf>

Ok, we are going to try this one more time. Last time back in January, no one was able to claim the prize, so the \$25 gift certificate to the Cheesecake Factory (located in the South Side) is up for grabs again. The first person who emails me, Chris Conroy ([cconroy@astroino.com](mailto:cconroy@astroino.com)), the combined total number of pages for all three published Regionaires will claim the prize. I am embarrassed at how simple I made it... Same rules apply as before, no Chapter officers, board members, committee members or Astorino employees are eligible. Lets have a winner this time!

# Local News Relative to ASHRAE

## Trane EarthWise Systems Seminar

Check out the separate .pdf file attached to the email for more information  
7:15-10:30 am Wednesday, May 9, 2007 - Radisson Hotel Pittsburgh Green Tree

## Building Energy Codes Seminar held in Pittsburgh

<http://www.energycodes.gov/news/ecodes2007/>

## Controlling Humidity in Commercial Applications -

Carrier Corporation Customer Technical Training

8:00 am - 5:00 pm Tuesday, May 1, 2007 - Hilton Garden Inn, Canonsburg, PA

## Natatorium Technical Design Seminar sponsored by Deckman Company

11:30 am – 2:30 pm Thursday, April 26, 2007 – Deckman Company, (1.8 miles from I-79 Bridgeville)



Be our guest ... and attend this seminar by Trane, a business of American Standard companies.

## When

Wednesday, May 9, 2007

7:15 a.m.-7:45 a.m.

- Registration & Breakfast

7:45 a.m.-10:30 a.m.

- Seminar

## Where

Radisson Hotel Pittsburgh Green Tree

101 Radisson Drive

Pittsburgh, PA 15205

(412) 922-8400

### Register Today

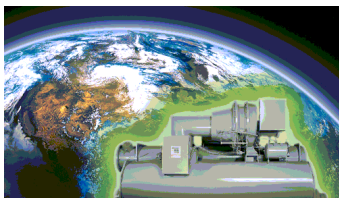
Three ways to register:

- Call Jennifer Monaco at (412) 747-3000
- E-mail her at [jmonaco@trane.com](mailto:jmonaco@trane.com)
- Fax the following form to (412) 747-4550

**Registration Deadline is**

**Wednesday, May 2nd.**

**This is a free event!**



## Trane EarthWise Systems

EarthWise Systems seminar will provide the latest in systems designs that provide not only the “Sustainability characteristics of High Efficiency/Low Emissions Products, Systems & Services” but also have the ability to reduce both initial cost as well as operating expenses while enhancing comfort, acoustics, and indoor air quality.

### Why should you attend this presentation forum?

- Your customers expect you to design systems that conform to “Documented Sustainability” which is the key definition of U.S. EPA’s “Responsible Use” policy.
- Understanding ASHRAE’s focus on Sustainability
- Gain Knowledge of how these concepts can be used to obtain U.S. Green Building Council’s LEED program points.

### Featured Speakers:

#### Eugene (Smitty) Smithhart, Director of Trane Systems & Solutions:

With over 30 years of industry experience, “Smitty” spent 29 years with Trane and 4 years with Danfoss Turbocor, a manufacturer of Oil-Free compressors. He is well known in the HVAC industry, having published numerous industry articles and having key involvement in a number of industry changing initiatives. Smitty is a recipient of the U.S. EPA Climate Protection award—only one of five people in the world at that time to have received this prestigious award.

#### Lee Cline PE, Senior Principal Systems Engineer:

A member of Trane’s industry leading team of application and systems engineers, Lee has extensive experience in unit and system control issues. He was on the team that kicked off the microelectronic BAS and unit controls offering at Trane. On a daily basis Lee has the opportunity to discuss HVAC system application, and control with engineers, contractors, and owners.

*If you are unable to attend, feel free to send a representative from your firm/office.*

Call 412-747-3000 or Fax back to 412-747-4550

*Yes! I plan to attend.*

## Trane EarthWise Systems

Your name \_\_\_\_\_

phone \_\_\_\_\_

e-mail \_\_\_\_\_

Your company \_\_\_\_\_

Additional Attendees \_\_\_\_\_

# 2006 / 2007 Board and Committee Members

Position	Name	Business	Phone	Email
President	Christopher L. Conroy	Astorino	412-209-2902	<a href="mailto:cconroy@astorino.com">cconroy@astorino.com</a>
President-Elect / Vice President	Jeff Zacherl	Logical Automation	412-462-5080	<a href="mailto:jzacherl@logicalautomation.com">jzacherl@logicalautomation.com</a>
Secretary	Bob Wroblewski	Donwil Company	412-787-1313	<a href="mailto:bobw@donwill.com">bobw@donwill.com</a>
Treasurer	Curt Marsh	Pittsburgh Air Systems	412-474-3070	<a href="mailto:curt.marsh@pittsburghairsystems.com">curt.marsh@pittsburghairsystems.com</a>
Governor	J. Christopher Larry	TENG Solutions (Glenn Allen, VA)	804-474-4500	<a href="mailto:LarryJC@teng.com">LarryJC@teng.com</a>
Governor	Timothy Miller	Powrmatic, Inc.	412-266-5394	<a href="mailto:tim@powrmatic.com">tim@powrmatic.com</a>
Governor	Kurt A. Scheer	BDA Engineering, Inc.	412-682-3603	<a href="mailto:kscheer@bdaengineering.com">kscheer@bdaengineering.com</a>
CTTC Chair	Steve Alauzen	Pittsburgh Trane	412-747-3000	<a href="mailto:slalauzen@trane.com">slalauzen@trane.com</a>
Research Promotion	Kurt A. Scheer	BDA Engineering, Inc.	412-682-3603	<a href="mailto:kscheer@bdaengineering.com">kscheer@bdaengineering.com</a>
Membership	Don Schock	Arthur Schock Engineers	412-919-0133	<a href="mailto:schockeng@aol.com">schockeng@aol.com</a>
Student Activities	Dave Meredith	Penn State University - Fayette	724-430-4268	<a href="mailto:dxm15@psu.edu">dxm15@psu.edu</a>
Historian	Mark Wolfgang	Loftus Engineers	412-429-1396	<a href="mailto:mwolfgang@loftusllc.com">mwolfgang@loftusllc.com</a>
CTTC Member	Dave Staffen	KASCAR – HVAC Solutions, Inc	412-384-6690	<a href="mailto:dstaffen@kascarhvac.com">dstaffen@kascarhvac.com</a>
CTTC Member	Chris Morgan	Delval Equipment	724-743-0415	<a href="mailto:cmorgan@delval.com">cmorgan@delval.com</a>
Newsletter	Daniel Kendra	Tower Engineering	412-931-8888	<a href="mailto:dan.kendra@estower.com">dan.kendra@estower.com</a>
Honors, Awards & Nominations	Timothy Miller	Powrmatic, Inc.	410-833-9100	<a href="mailto:tim@powrmatic.com">tim@powrmatic.com</a>
Reception	Dennis Kelly / Karen Boyle	J. D. McSteen Company	412-922-5300	<a href="mailto:dkellyjdm@aol.com">dkellyjdm@aol.com</a> <a href="mailto:kboylejdm@aol.com">kboylejdm@aol.com</a>
Resource Guide	Curt Marsh Jeff Zacherl	Pittsburgh Air Systems Logical Automation	412-474-3070 412-462-5080	<a href="mailto:curt.marsh@pittsburghairsystems.com">curt.marsh@pittsburghairsystems.com</a> <a href="mailto:jzacherl@logicalautomation.com">jzacherl@logicalautomation.com</a>
Golf Outing	Dawn Patitucci Ross Kladakis	Tudi Mechanical Pittsburgh Trane	412-771-4100 412-747-3000	<a href="mailto:Dawn.Patitucci@tudi.com">Dawn.Patitucci@tudi.com</a> <a href="mailto:RKladakis@trane.com">RKladakis@trane.com</a>
Website	Shawn Watts	-		<a href="mailto:swatts@bigfoot.com">swatts@bigfoot.com</a>



Board of Directors



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Committee Members & Volunteers