



The Pittsburgh Professional Engineer
<http://www.PittsburghPE.Org>
E-mail PSPE@PittsburghPE.Org

Published by:
The Pittsburgh Chapter of the Pennsylvania Society of
Professional Engineers
337 Fourth Avenue, Pittsburgh, PA 15222
P. 412-391-0615 F. 412-261-1606

October 2011

President's Message

I am very fortunate for many reasons as I begin my term as President of the Pittsburgh Chapter of the Pennsylvania Society of Professional Engineers. The chapter is in sound condition; our current enrollment of 289 members is a 21 person increase from the previous year and there are 13 sustaining associate members affiliated with the chapter. Through care and prudence the Chapter is on strong financial footing. The board has many long time members, including five past presidents, and the standing committees are chaired by experienced and dedicated individuals. In addition to the board's experience, we have two new members this year that will provide a fresh prospective. The immediate past president, Joe Garlicki, handled his tenure professionally with a well organized management style. For all of this I am grateful.

My goals during the upcoming year are simple really; to ensure that the Pittsburgh Chapter of PSPE remains a relevant part of the local engineering professional landscape. The Chapter will remain relevant by continuing to provide strong outreach programs to encourage engineering through the Apprenticeship program, the Mathcounts Competition, and the Professional Engineering Exam review courses. The Chapter will remain relevant by continuing to assist Professional Engineers with opportunities to obtain required continuing education credits for licensure renewal by offering educational programs. And the Chapter will remain relevant by recognizing the best that the engineering profession can produce during the annual Engineers Week Banquet.

While these outreach programs help us to remain relevant and to fulfill our mission, we cannot become complacent. As I previously mentioned, the Chapter has grown, with a significant increase in membership during the past year; however, my guess is (and it's only that, I have no empirical data to back it up), that the median age of the membership continues to grow as well. For this organization to remain relevant, we need to attract and hold onto young engineers, like Jennifer Nolan-Kremm and Kelly Rigot-Gargan, our past two Young Engineer of the Year Award winners. Of the 289 members in the Chapter, only five are classified as student members. The board has discussed various ways to attract young engineers and we continue to implement new strategies. Your assistance is necessary for the continued well being of this Chapter. I'd like to ask all members to look for ways to encourage young engineers to become involved in the chapter. Invite a young engineer to a meeting. Discuss the importance of obtaining a professional engineers license. Encourage students to follow an engineering curriculum. In this way, this Chapter remains relevant to the engineering profession and a vital part of the community at large.

The Chapter activity calendar is published on the back of the newsletter each month. We are working to stay relevant to all of our members with our Chapter meetings, in particular with the meetings that offer PDHs, now required to maintain your Pennsylvania PE license. We encourage each member to attend at least one meeting this year and bring a new/potential member with you.

Brian Schull, P.E.

President's Message	1
Mathcounts 2012 & Sustaining Associates	2
October Meeting	3
October Site Meeting	4
Site Meeting Directions	5
Invitation to Serve	6
Mathcounts 2011	7



**MATHCOUNTS 2012 – February 4, 2012
MARK YOUR CALENDAR!**

This year is the 29th year of the Pittsburgh Chapter sponsoring the local competition portion of the National Mathcounts Competition. For the fourth consecutive year, the competition will be held at Robert Morris University, Sewall Center. We are looking forward to another successful competition.

One thing that does not change is the Chapter's need for volunteers and companies who are willing to donate time and financial support for the competition. We would like to send out a request for individuals and engineering firms in the Pittsburgh area to consider financial support for this wonderful opportunity. There are many needs for this support. If you or your company would like to make a donation to MATHCOUNTS, please contact Virginia Dailey at dailey@ddengr.com.

SUSTAINING ASSOCIATES

Through the years, the Pittsburgh Chapter of PSPE has had a core group of local companies, the Sustaining Associates, who, through their Sustaining Associates dues, have helped the Chapter foster and grow outreach programs. Their participation, by their company members, have also enabled the Chapter to undertake many projects that only volunteer time can sustain.

The Chapter would like to recognize those companies that are Sustaining Associates of the Chapter. They are:

- | | |
|--------------------------------------|--|
| Benchmark Engineering & Construction | Camp Dresser & McKee, Inc. (CDM) |
| D & D Engineering, Inc. | GAI Consultants, Inc. |
| Gannett Fleming, Inc. | Garvin Boward Beitko Engineering, Inc. |
| HDR Engineering, Inc. | L. Robert Kimball & Associates, Inc. |
| Michael Baker, Jr., Inc. | Monaloh Basin Engineers |
| Roy F. Johns, Jr. & Associates | The Gateway Engineers |
| Trumbull Corporation | |

The Sustaining Associates receive several "bonuses" by being and maintaining their Chapter membership. The benefits and "bonuses" to your company can be seen on the Chapter web site. If your company is interested in becoming a Sustaining Associate, please contact Virginia Dailey, P.E., President of D & D Engineering, at dailey@ddengr.com.

2011-2012 Chapter Officers

- | | |
|--|--|
| President – Brian Schull, P.E. | Executive Secretary – Jon Drosendahl, P.E. |
| President Elect – Kirk Thompson, P.E. | Treasurer - John Broschious, P.E. |
| Vice President – Gary Chodkowski, P.E. | Financial Secretary - Reyman Branting, P.E. |
| State Director - David Briskey, P.E. | Immediate Past President – Joe Garlicki , P.E. |

2011-2012 Chapter Directors

- | | |
|--------------------------------|--------------------------------|
| Doug Beitko, P.E., 2010 – 2012 | Jason Esser, P.E.. 2012 - 2014 |
| Tom Weber, P.E. 2011 - 2013 | |



PENNSYLVANIA SOCIETY OF PROFESSIONAL ENGINEERS

PITTSBURGH CHAPTER

Invites all current and prospective members to the
Thursday, October 13, 2011 Meeting

PA Route 28 – Satisfying Stakeholders with an Effective Transportation System within a Tight Urban Corridor
(Seminar attendance qualifies as 1.0 PDH)

Place: **Amici’s Restaurant (formerly Tambellini’s Rt. 51)**
860 Saw Mill Run Boulevard, Pittsburgh, PA 15226 (**Free Parking**)

On Thursday, October 13, 2011, the Pittsburgh Chapter PSPE is proudly sponsoring a seminar on the topic of the Route 28 Improvements between the 31st and 40th Street Bridges. The presenter will be Mr. Greg Cerminara of Michael Baker Corporation who gave this presentation in September 2010 at the PSPE State Conference at the Pittsburgh Hilton. If you missed it then, you have a second chance to enjoy it.

Cocktails: 6:15 PM Social (Cash Bar)
Dinner: 6:30 PM
Presentation by Mr. Cerminara: 7:30pm

Dinner will be a Buffet which includes salad, starch, vegetable, rolls, soda, coffee/tea, etc. and two entrees:
Chicken Asiago – Panko Breaded Breast of Chicken Finished with Asiago Cream Sauce

Tender Roast Beef – Served in a lightly seasoned Au Jus

You may make your reservation by filling in the form below and mailing or faxing it to Dave Teorsky, ESWP. You may also phone in all of this information to ESWP. If you choose to make your reservation via e-mail, do not e-mail your credit card information. Payment may be made by calling in your credit card information, faxing this filled in form, or mailing this form with credit card information or enclosing a check.

Phone: (412) 391-0615 Fax (412) 261-1606 E-mail: d.teorsky@eswp.com
U.S. Mail: Pittsburgh Chapter PSPE, 337 Fourth Ave., Pittsburgh, PA 15222

Name : _____ **Phone/Email:** _____

Name : _____ **Phone/Email:** _____

Reservations including payment must be received by October 7, 2011. Cost per attendee is:
\$25.00 for PSPE Members, \$30.00 for Non-Members.

Payment Options:

Credit Card: ___ MASTERCARD ___ VISA ___ AMEX

Card Number: _____ Expiration Date: _____ CVV Code _____

Name (as it appears on the credit card): _____

Billing Address: _____

___ Check enclosed payable to “Pittsburgh Chapter PSPE” & mailed to 337 Fourth Ave., Pittsburgh, PA 15222



**PENNSYLVANIA SOCIETY OF PROFESSIONAL ENGINEERS
PITTSBURGH CHAPTER**

**October 15, 2011 Chapter Meeting
At the Route 28 Construction Site, 31st to 40th Street**



On Saturday morning Oct. 15, 2011 at 10:00 AM we will take an actual walking tour of the Route 28 Reconstruction from 31st to 40th Street. **Hard hats, safety glasses and vests will be required, with suitable sturdy shoes.** Pictures will be allowed. A site map with directions to the Millvale Riverfront Park pavilion is included on the following page of this flyer or newsletter.

Please meet at the Millvale Riverfront Park Pavilion at 10:00 AM sharp. There is ample parking there. We will walk the 3 Rivers Heritage Trail to the 31st ST. Bridge (0.75 mile). We will access up to the 31st Bridge to view the remainder of the work on the Brayman portion of the project. Then we will return to the Millvale Riverfront Park (0.75). From there we will drive to the northern parking lot in the Millvale Riverfront Park (0.5 mile) and park to access the 40th Street Bridge and Trumbull Corporation's project. We will walk up to the 40th Street Bridge and view the work (0.5 to 0.75 mile), and return walk to the parking lot (0.5 to 0.75 mile). The total estimated walking distance is 2.5 to 3.0 miles. The tour should take about 2 hours. Participants should be in reasonably good health. Size of the group is limited to the first 20 +/- people who register below. The morning of the meeting, if you have any questions (directions, etc.) contact Tom Weber at 421-812-3967 (cell).

The meeting is free of charge! This tour will be worth 1.0 PDH.

You may make your reservation by filling in the form below and mailing or faxing it to Dave Teorsky, ESWP. You may also phone in all of this information to us.

Phone: (412) 391-0615 Fax (412-261-1606) e-mail: "d.teorsky@eswp.com"

U.S. Mail; PSPE Pittsburgh Chapter, 337 Fourth Ave., Pittsburgh, PA 15222

Name : _____ Cell Phone/Email: _____

Name : _____ Cell Phone/Email: _____

DIRECTIONS TO SITE MEETING – OCTOBER 15





Invitation to Serve the Pittsburgh Chapter PSPE

For those of you who feel you are “too busy” to participate on the Board of Directors for the Pittsburgh Chapter of PSPE, you are missing a great opportunity. By being on the Board, you will be learning about PSPE and the Pittsburgh Chapter and its rich heritage of engineers who have participated in the recent and not-so-recent past. You will be learning and sharing leadership skills, organizational skills and team skills. The Board is a team of people who problem solve (just like our engineering education taught us) in trying to keep the Pittsburgh Chapter vibrant, and to participate in state PSPE activities that protect our Professional Engineering licensure.

We should never take lightly what we have achieved in obtaining that “P.E.” nor what it means to the profession and protection of our constituents.

We are always in need of volunteers for the various ongoing outreach work that President Brian Schull, P.E. mentioned in his President’s Message. The Apprenticeship Program, chaired by Reyman Branting and Dave Briskey gives you a great opportunity to meet with “up and coming” young people thinking about an engineering career. The Mathcounts Program is a once-a-year competition, encouraging young math and science students to excel in their quest for recognition, both financial and literary. We need to raise funds to help maintain and grow these efforts. We are working in this area, but need volunteers to help contact and reach out to the engineering community here in Pittsburgh on behalf of these programs.

PLEASE consider volunteering to help with any of these outreach programs. The Board meetings occur once a month, and they are almost always followed by a Chapter meeting (many offering a coveted PDH). The meetings are productive and informative.

History of Pittsburgh Captured

First Gasoline “Pumping Station”

Northwest Pennsylvania Gas Stations

A few gasoline filling stations across the country opened for business around 1906-1907, but dispensing at that time was still done mostly by buckets and funnels. Some stations advanced into metered or graduated measures soon after 1911. Gilbert & Barker, a firm which manufactured storage tanks, brought out a line of curb pumps with measuring devices in 1911 (Hidy & Hidy, 1955), and the Beman Auto Oil Can Co. of Meadville, Pennsylvania, was already selling their New Improved Automatic Tank by that year.

The first "drive-in" filling station, [Gulf Refining Company](#) opened to the motoring public in [Pittsburgh](#) in 1913.^[8] Prior to this, automobile drivers pulled into almost any general or hardware store, or even blacksmith shops in order to fill up their tanks. On its first day, the station sold 30 gallons of gasoline at 27 cents per gallon. This was also the first architect-designed station and the first to distribute free road maps.

For years in the early refining era benzene and gasoline as refinery products had practically no market and were dumped by the few scattered pioneer refineries operating along Oil Creek and elsewhere in the oil region. Those products at that time were not worth freighting anywhere, and only a few odd sales occurred at the refinery location, about 10 cents a barrel. The refiner was usually happy to get somebody else to take it away. One use of benzene in the Civil War years of the 1860’s was as a substitute for turpentine in paint, but perfume was needed to mask the odor, and it was packaged with a fancy name, but even then didn’t enjoy large sales. Gasoline would have worked as well as benzene in that product..

In 1906 an Atlantic dealer sold gasoline in his livery stable in downtown Titusville, Pennsylvania. This was one of the first dispensing “stations” in the northwest sector of the state. Others soon followed. In 1907 the Natural Gasoline Company began selling casing head gasoline to motorists at their terminal on the Allegheny River opposite Tidioute, Warren County. The company had constructed a pipeline from their plant to the terminal, and what they didn’t sell at that point was loaded into tank cars and shipped to the Atlantic Eclipse refinery at Franklin for blending purposes. The operators of that enterprise were Thomas Hawkey and Vern and George Klinger (D. Weber, verbal communication).



This historic building on Rts. 62 and 8 in Reno, Venango County, PA, was built in the early 1860’s as a bank which subsequently failed. It became the Western Pennsylvania Granitoid Monument Company headquarters and may have held other tenants. Ca. 1920 the right side was turned into a mechanics bay for grease jobs, oil changes, tire repair etc., and a gasoline pump (“visible” type, glass cylinder) was installed out front. Frank Myers was the owner, and the business was called the Reno Garage (Zolli, 1994). It is believed that Atlantic gasoline was sold, the Atlantic-Eclipse refinery being only two or three miles up the road. The building is still there.

(Information Courtesy of “Gasoline Stations – Petroleum History Institute”)

The Pittsburgh Professional Engineer

Published by

Pennsylvania Society of Professional Engineers

Pittsburgh Chapter

337 Fourth Avenue

Pittsburgh, PA 15222

(Return Service Requested)



PSPE, Pittsburgh chapter – <http://www.PittsburghPE.Org>

2011-2012 CALENDAR

MEMBERSHIP EVENTS & MEETINGS

Date	Time	Description	Location
Sept. 22 – 24, 2011		State PSPE Conference	Valley Forge, PA
October 13, 2011	5:30pm	Board of Directors Meeting	Amici's
October 13, 2011	6:15pm	PA Rt. 28 Corridor	Amici's
October 15, 2011	10:00am	PA Rt. 28 Site Visit	PA Rt. 28
November 10, 2011	5:30pm	Board of Directors Meeting	ESWP
December 8, 2011	5:30pm	Board of Directors Meeting	ESWP
January 12, 2012	5:30pm	Board of Directors Meeting	ESWP
February 4, 2012	8:00am	MATHCOUNTS	RMU
February 9, 2012	5:30pm	Board of Directors Meeting	ESWP
February 25, 2012		National Engineers' Week Banquet	Sheraton Station Square
March 8, 2012	5:30pm	Board of Directors Meeting	ESWP
April 12, 2012	5:30pm	Board of Directors Meeting	ESWP
May 10, 2012	5:30pm	Board of Directors Meeting	ESWP

All BOD meetings are to be held @ 5:30PM @ the ESWP Building pending further notice.