



**VALLEY FORGE CHAPTER
PENNSYLVANIA SOCIETY OF PROFESSIONAL ENGINEERS
P.O. BOX 585 WORCESTER, PA 19490-0585**

THE COMPASS

Volume 47. Number 5 MAY 2013

(Read the COMPASS on-line at www.pspe.org/valleyforge)

President's Message

By: Randy Cleaver, PE VFC President

As the Chapter's year is coming to an end, I would like to thank our Officers and Directors for their time and effort to make the year a success. At our membership monthly meetings we enjoyed a number of excellent presentations including designing food-processing equipment, Kansas City Hyatt walkway collapse and arc flash in the work place. December gave us the opportunity to visit Parx Race Track for Harve Knatiuk Annual Race Day. This year is the first year of the Chapter's affiliation with the Villanova University Student Chapter of NSPE. VUNSPE invitation to a joint meeting at the University helped build a bond between the chapters and demonstrated the overwhelming student interest in professional engineering.

MathCounts is an institution for the Valley Forge Chapter PSPE. Students of the grades 6th, 7th and 8th gather in a local school on a cold day in February or March to apply their skills in a mathematic competition. This year the Bucks County/Valley Forge PSPE Chapters sent 10 students to the State Championship. Winners of the State Championship move onto the National Championship in Washington DC.

This spring the Chapter continued the affiliation with student activities. Chapter members attended the Montgomery County Science Fair and Delaware Valley Science Fair to judge the Engineering Category. The student interest in these STEM science fairs is stronger than ever. The DVSF had over 1000 project entries. Project themes in the engineering category varied including testing of materials, structural designs, alternate fuel applications and more.

Scholarships are another action item on the Chapter's annual agenda. Two Universities collaborate with the Chapter for scholarships. This year two students were awarded \$5000/yr from Drexel University and one student awarded \$2000/yr from Temple University. In addition the Chapter awarded these three students \$200.

To end the year with a great shot, the Reading Valley Forge Annual Golf Outing is on June 13th at Hickory Valley Golf Club (see flyer below). If you enjoy the game, you will enjoy this outing. As we move into the new chapter year (June 1, 2013-May31, 2014), I ask you to support the Chapter Board and it's program, which will include interesting presentations, factory tours and entertainment. If you would like to offer a personal influence on the Chapter's activities, we would welcome you to join the Board of Directors.

I wish you all a warm and wonderful summer. I hope to see you in the fall.

Randy Cleaver, PE

EVENTS

Science Fairs 2013

By: Tony Dougherty, P.E. – Chapter Director

Well members, once again a few of your representatives on the board reported to the Greater Philadelphia Expo Center in Oaks to judge the Delaware Valley Science Fair.

The event was held on April 3, 2013 and as always these kids amazed our judges with a wide range of projects demonstrating future promise in the field of engineering. This year's fair was the largest ever with close to 1,100 total projects. The three judges from the chapter included Randy Cleaver, Tony Dougherty, and Kurt Leininger and we evaluated 91 projects in the Engineering Category. As in years past, the event consists of 5 fairs spanning the grade levels, 12th, 11th, 10th, 9th, and one fair for grades 6th through 8th. Each fair (grade level) was reviewed separately and the winner in each grade level received the Valley Forge Chapter award for engineering achievement. In addition, a second place prize for innovative engineering was awarded. The winners of these awards are as follows:

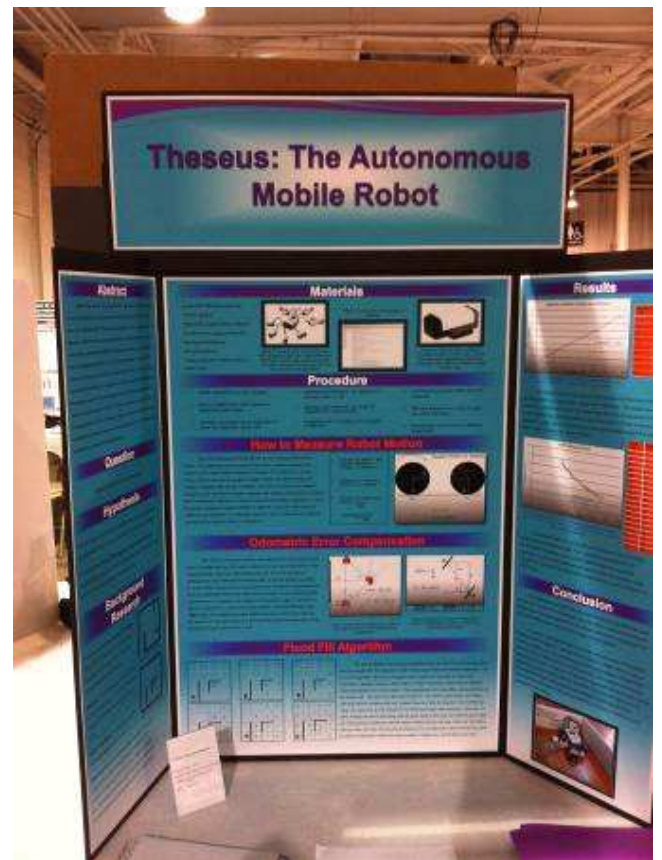
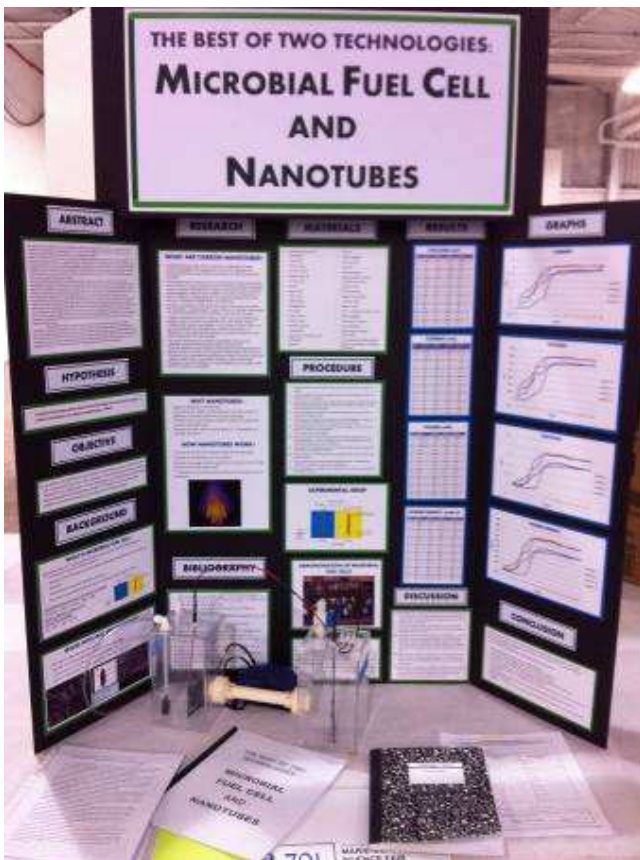
Fair	Prize	Project	Student
12th Grade	1st	Detecting Pulse Through Photosensitive Device	Aditya Misra – Allentown, PA
	2 nd	Light Weight High Performance Concrete	Peter Cheng – Maple Glen, PA
11th Grade	1st	Who Let the Dogs Out? A Smoke Detector-Activated Dog Crate Lock	Julia Swieson – Broomall, PA
	2 nd	The Best of Two Technologies: Nanotubes And Microbial Fuel Cell	Alex Plichta-Ivlyland, PA
10th Grade	1st	Harnessing Hydrogen for Nautical Power	Caroline Boschetto – Doylestown, PA
	2 nd	Improving Projectile Velocity and Durability of the Railgun	Russell Emery- Phoenixville, PA
9th Grade	1st	Theseus: The Autonomous Mobile Robot	Raquel Herrera – Allentown, PA
	2 nd	The Effect of Different Saturations, on the Flexural Strengths of Wood Laminates	Ian Wietecha-Reiman-Wyncote, PA
6th-8th Grade	1st	Increasing the Efficiency of Mechanical Systems by Collecting Excess Vibration Energy through Piezoelectric Material	Kerri McBride-Medford, NJ
	2 nd	Atmospheric Carbon Capture Using A Marine Diatom	Erin Gresh-New Hope, PA

Congratulations to all of this year's winners. Let's all hope that these promising young students continue to pursue engineering as their interest, career choice, and/or area of study. These winners have been invited to our next membership meeting to show off their project. If anyone is interested in judging next year, please don't hesitate to contact me.

Some of the Winning Projects



Judging is challenging and exhausting!





**PSPE READING/VALLEY FORGE
ANNUAL GOLF OUTING**



Thursday, June 13, 2013

*Hickory Valley Golf Club—Ambassador Course
1 p.m. Sharp Shotgun Start—4 Person Scramble*

Registration and lunch begins at 11:30 a.m.

Team and Individual Prizes

Picnic Lunch Provided

(Awards presented at 6:00PM Pig Roast)

(Driving range available. Purchase balls at pro shop)

Checks payable to:

Reading Chapter PSPE

Registrations mailed to:

c/o Traffic Planning and
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2500 E. High St., Suite 650
Pottstown, PA 19464

Registrations emailed to:

PSPEReading@gmail.com

Registrations faxed to: (610) 326-9410

before the deadline of May 31, 2013



**Register by May 1, 2013 To Receive Free
Mulligan!!!!**

Non-Golfer Volunteers: please call Frank at (610)326-3100.

*All proceeds benefit the: "PSPE—Valley Forge Chapter Scholarship Fund" and
"PSPE—Reading Chapter Scholarship Fund / MATHCOUNTS"*

This past year, PSPE-Valley Forge Chapter teamed up with PSPE-Reading Chapter to host the first annual combined golf outing at the Ambassador Course of Hickory Valley Golf Club on June 14, 2012. The outing was a great success through tremendous sponsorships and participation from our membership and volunteers.



2012 winners Jim McCarthy, Mark Rozzi, Chad Schlanger, and Jim Leupold

Once all of the participants were finished with their rounds, everyone gathered in the pavilion area to enjoy a Pig Roast dinner prepared by **Boyers Market & Catering**.

The Chapter's incoming Board of Directors and Officers were installed at the conclusion of the outing.



Please feel to invite your co-workers, friends, and client contacts.

Participation in the form of golfers, sponsorships, volunteers, and/or prize donations are needed and greatly appreciated, contact me (see below for contact info) for additional information?

In order to make this another successful event, this year we are looking for **volunteers** to assist the tournament directors with various tasks throughout the day. Some of those tasks include, but are not limited to, registration, Putting Challenge witness, Closest to the Pin, Hole-in-One witness, pre-event course and pavilion setup, and post-event breakdown, etc.

We also are looking to put together a registration packet with some give-a-ways included (e.g. Company Logo golf towels, balls, snacks,etc.), if anyone can help secure some of these items, it would be a tremendous help and added touch to make our event stand out from other charity golf outings in the area.

A picnic lunch and a **Pig Roast dinner** will be provided before and after the rounds.

Contact Email: Nathan Zipay nzipay@trafficpd.com Phone: [610-326-3100](tel:610-326-3100) (work)

BOARD OF DIRECTORS' MEETING MINUTES

Meeting

- March 4, 2013
- Wegmans, King of Prussia

Those in Attendance:

Randy Cleaver, P.E. (President)

~~Mike Fischer, P.E. (President Elect)~~

Dan Humes, P.E. (Vice President)

~~Chad Camburn, P.E. (Past President)~~

~~Lindsay Musselman, E.I.T. (Secretary)~~

Jim Thompson, P.E. (Treasurer)

Paul Dugan, P.E. (State Director)

~~Tony Dougherty, P.E. (Director)~~

Bruce Rhoades, P.E. (Director)

~~Nate Zipay, E.I.T. (Director)~~

~~Kristin Norwood, P.E. (Director)~~

~~Anthony Handley, E.I.T. (Director)~~

~~Jay Rooney, P.E. (Director)~~

Call to Order 6:38 pm

February Meeting Minutes

- *No Quorum, must attain vote via e-mail.*

Old Business

- Treasurer report – sent via email.
- Membership – sent via email.
- Past President's Plaque – Paul received and gave to Randy.
- MathCounts – Local competition was held on March 2nd, everything went well. State competition is coming up on March 23rd in Harrisburg/Hershey. Dan to send Randy Pictures and an Article. Dan is working with Bucks Coordinator to prepare a press release for local newspapers.
- March membership meeting – Arc Flash presentation to be held at the Crowne Plaza on March 14th. Randy will send out flyer as soon as he hears back from Crowne Plaza.

New Business

- Next Meeting
 - Date: April 23rd – Pizza Time (Awards for Scholarship, Mathcounts).
- Future Meetings
 - March 21st – Young Engineers Social hosted by Delaware County Chapter.
 - April 5th through 7th is the PSPE Boot Camp. Pass this onto the membership.
 - May – Possible Plant Tour. Jim will look into this.

Committees

- Golf Outing
 - June 13th at Hickory Valley, Lunch and dinner included.
 - Nate previously sent flyer out. The Chapter should try to provide additional participation this year.
- Scholarship
 - ~12 applications received at previous board meeting. Jim stopped at mailbox and no new applicants have been received.

Other Business

- Science Fair on March 22nd still needs judges.

- Sept 18-21 State conference in Grantville.
- April 5-7 PDH Boot Camp.
- Sending out Compass soon, awaiting photos and articles from various events.

Adjournment: 7:15 pm

Next meeting: April 4, 6:30pm, Wegmans King of Prussia (Tentative)

Carry-over Notes:

- Additional ideas for speakers:
 - Fracking (Randy)
 - Pharma (Lindsay)
 - Battleship NJ tour (Lindsay)
 - Chemical Engineering, Dr. Weinstein (Lindsay)
 - Coatings (Randy)
 - PSPE office in Harrisburg has list of PDH ideas/speakers.
- Location options
 - Wegmans conference room, KOP or Collegeville (\$100 food min, 2 entrees + 3 sides + salad + rolls = \$16.99 + \$5 per person cleanup, up to 3 hours)
 - No discount for multiple meetings at Crowne Plaza
 - Brittingham's in Lafayette Hill (\$24 per person incl tax, buffet, min 24, dessert not included)
 - DeVry University. Rent a classroom for \$50.

2013-14 ELECTED CHAPTER OFFICERS and BOARD OF DIRECTORS

(President) Mike Fischer, P.E.
(Pres. - Elect) Daniel Humes, P.E.
(Vice President)
(Treasurer) Jim Thompson, P.E.
(Secretary) Lindsay Musselman, E.I.T.
(Past-President) Randy Cleaver, P.E.
(Director) Bruce Rhoades, P.E.
(Director) Chad Camburn, P.E.
(Director) Tony Dougherty, P.E.
(Director) Nate Zipay, E.I.T.
(Director) VACANT SPOT
(Director) VACANT SPOT
(State Director) Paul Dugan, P.E. (3 YR Term, ending after the 2013-2014 Term)
(Alt. State Director) Tony Dougherty, P.E.
(SE Region PSPE VP) John Nawn, P.E.

2012-13 CHAPTER OFFICERS and BOARD OF DIRECTORS

President Randy Cleaver, P.E.
President-Elect Mike Fischer, P.E.
Chapter Director Nate Zipay, E.I.T.
Treasurer Jim Thompson, P.E.
Secretary Lindsay Musselman, E.I.T.
State Director Paul Dugan, P.E.

Chapter Director Anthony Dougherty, P.E.
Vice President Dan Humes, P.E.

Chapter Director Bruce Rhoades, P.E.
Past-President Chad Camburn, P.E.

Committees:

Committee	Primary	Secondary
Audit:	Mike Fischer	Kurt Leininger
Awards:	Bruce Rhoades	
By-Laws:	Nate Zipay	Dan Humes
Engineers Week:	Tony Dougherty	
Ethics:		Bruce Rhoades
Legislative/Gov't:	Paul Dugan	Tony Dougherty
Mathcounts:	Dan Humes	Lindsay Musselman
Membership:	Lindsay Musselman	Jim Thompson
Nominating:	Chad Camburn	Dan Humes
Programs:	Randy Cleaver	Dan Humes
Publications:	Chad Camburn	
Scholarship:	Chad Camburn	Nate Zipay
Science Fair:	Tony Dougherty	Jim Thompson
Web Site:	Mike Fischer	
Practice Division	Primary	
PEPP (Private Practice)	Paul Dugan	
PEC (Construction)	Tony Dougherty	
PEG (Government)	Paul Dugan	
PEI (Industry)	Lindsay Musselman	
PEE(Education)	Nate Zipay	

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THANK YOU TO OUR ADVERTIZERS!



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Sharing your Vision

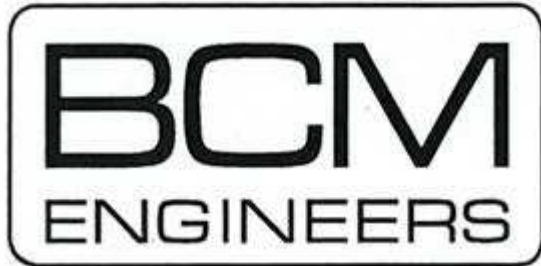
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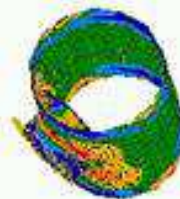
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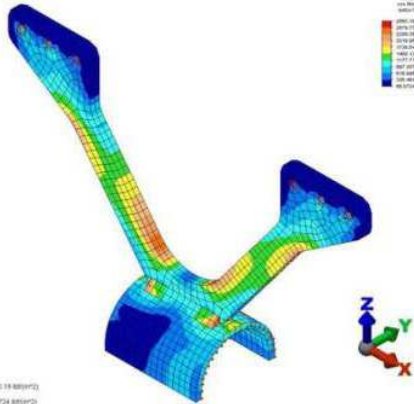
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to serve as 2006-2007 Past President
of Valley Forge Chapter, PSPE!*

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