



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

## **THE COMPASS**

**Volume 45, Number 2 – January 2011**  
(Read the COMPASS on-line at [www.pspe-vfc.org](http://www.pspe-vfc.org))

### **PRESIDENT'S MESSAGE**

By Kristin Norwood, P.E., VFC President

Happy New Year!! Now that the holidays are over, I am looking forward to an exciting second half of my term. The Board is moving ahead with several interesting programs in the coming months. (See the events schedule below.) We have been busy trying to schedule events that will earn PDHs for those trying to meet the requirements for PE licensure. Please let us know if you have any ideas for topics that would interest you and we can try to make it happen.

I would also like to take this opportunity to challenge our members to get more involved in the Chapter. We have many different opportunities to volunteer for worthwhile causes with multiple levels of commitment. We want to ensure that our chapter continues to grow and flourish for many years to come. *Volunteers do not necessarily have the time; they just have the heart.* ~ Elizabeth Andrew



**Kristin Norwood, P.E.**

### **EVENTS SCHEDULE**

- |                          |   |
|--------------------------|---|
| <b>January 25, 2011</b>  | <b>Incident at Morales: An Engineering Ethics Story</b><br>PJ Whelihans, 799 Dekalb Pk, Blue Bell, PA.  |
| <b>February 5, 2011</b>  | <b>MathCounts Competition</b><br>Upper Merion Middle School, 450 Keebler Rd, King of Prussia, PA.       |
| <b>February 8, 2011</b>  | <b>Board Meeting, TPD Office</b>  |
| <b>February 22, 2011</b> | <b>Tour of the PennDOT Regional Traffic Management Center</b><br>7000 Geerdes Blvd, King of Prussia, PA |
| <b>March 2011</b>        | <b>4G Wireless Discussion (Tentative)</b><br>Date and time to be determined                             |

Visit the VFC PSPE website ([www.pspe-vfc.org](http://www.pspe-vfc.org)) often for updates on upcoming events.

## 2010-11 Chapter Officers and Board of Directors

President	Kristin Norwood, P.E.	Collegetown, PA 19426	610-842-0521	<a href="mailto:norwood.kristin@gmail.com">norwood.kristin@gmail.com</a>
President-Elect	Chad Camburn, P.E.	2129 E. High St, Pottstown, PA 19464	610-323-4040	<a href="mailto:camburn@bursich.com">camburn@bursich.com</a>
Vice President	Kurt Leininger, P.E.	920 Germantown Pike, Plymouth Meeting, PA	610-313-3100	<a href="mailto:kurt.leininger@atcassocaites.com">kurt.leininger@atcassocaites.com</a>
Treasurer	Mike Fischer, E.I.T	303 Valley Hunt Dr., Phoenixville, PA 19460	215-205-2130	<a href="mailto:michaelfischer@comcast.net">michaelfischer@comcast.net</a>
Secretary	Dan Humes, E.I.T	60 Ash Stoker Lane, Horsham, PA 19044	267-549-6643	<a href="mailto:dbh5007@gmail.com">dbh5007@gmail.com</a>
State Director	Paul Dugan, P.E.	303 Valley Hunt Dr., Phoenixville, PA 19460	610-220-3820	<a href="mailto:pauldugan@comcast.net">pauldugan@comcast.net</a>
Past-President	Karen Danko, P.E.	Lafayette Hill, PA 19444	610-405-8733	<a href="mailto:karen.danko@gmail.com">karen.danko@gmail.com</a>
Chapter Director	Jim Thompson, P.E.	3174 Mayflower Road, Plymouth Meeting, PA	610-639-8990	<a href="mailto:jthomp9121@aol.com">jthomp9121@aol.com</a>
Chapter Director	Nate Zipay, E.I.T.	2500 E. High St, Ste 650, Pottstown, PA 19464	610-326-3100	<a href="mailto:nzipay@trafficpd.com">nzipay@trafficpd.com</a>
Chapter Director	Anthony Handley, E.I.T	303 Valley Hunt Dr., Phoenixville, PA 19460	610-585-5889	<a href="mailto:anthonyhandley@comcast.net">anthonyhandley@comcast.net</a>
Chapter Director	Lindsay Musselman, E.I.T.	PO Box 4, WP20-206, West Point, PA 19401	215-652-6649	<a href="mailto:lindsay_musselman@merck.com">lindsay_musselman@merck.com</a>
Chapter Director	Anthony Dougherty, P.E.	2500 E. High St., Ste 650, Pottstown, PA 19464	610-326-3100	<a href="mailto:adougherty@trafficpd.com">adougherty@trafficpd.com</a>
Chapter Director	Bruce Rhoades, P.E	505 Midland Cir, St. Davids, PA 19087	484-529-8360	<a href="mailto:brucerhoadespe@comcast.net">brucerhoadespe@comcast.net</a>
SE Region PSPE Vice President	John Nawn, P.E.			

## 2010-11 VFC Committees

### Committee

Audit  
Awards  
By-Laws  
Engineers Week  
Ethics  
Legislative/Gov't  
Mathcounts  
Membership  
Nominating  
Programs  
Publications  
Scholarship  
Science Fair  
VFC Website

### Primary Contact

Jim Thompson, PE  
Bruce Rhoades, PE  
Nate Zipay, EIT  
Tony Dougherty, PE  
Mike Fischer, PE  
Paul Dugan, PE  
Karen Danko, PE  
Lindsay Musselman, EIT  
Karen Danko, PE  
Tony Dougherty, PE  
Kristin Norwood, PE  
Lindsay Musselman, EIT  
Tony Dougherty, PE  
Anthony Handley, EIT

### Secondary Contact

Kurt Leininger, PE  
Kristin Norwood, PE  
Paul Dugan, PE  
Paul Dugan, PE  
Bruce Rhoades, PE  
Anthony Handley, EIT  
Dan Humes, EIT  
Jim Thompson, PE  
Chad Camburn, PE  
Nate Zipay, EIT  
Anthony Handley, EIT  
Chad Camburn, PE  
Jim Thompson, PE  
Mike Fischer, EIT

### Practice Division

Professional Engineers in Private Practice (PEPP)  
Professional Engineers in Construction (PEC)  
Professional Engineers in Government (PEG)  
Professional Engineers in Industry (PEI)  
Professional Engineers in Education (PEE)

### Contact

Paul Dugan, PE  
Kurt Leininger, PE  
Paul Dugan, PE  
Lindsay Musselman, EIT  
Karen Danko, PE

(Note – The above committee positions were determined by those who attended the Board of Director's Summer Planning Meeting.)

**You can now follow our Chapter on LinkedIn and Facebook. Check us out!!**



## **“GETTING TO KNOW YOU”**

By Kristin Norwood, P.E., VFC President

The purpose of this feature is to learn a little more about our members. We have two new Board members that we will spotlight and then I will try to get some other members to contribute. This month I interviewed board member, Bruce Rhoades! Here are the results:

**The Compass (TC): So, who are you?**

*Bruce Rhoades, PE*

**TC: Where do you or did you work?**

*Greene, Tweed & Co, Kulpsville, PA*

**TC: How long of have you worked there or been in business?**

*6 months*

**TC: What do you do there?**

*Project Manager, responsible for new product development*

**TC: Are there other notable employers in your career?**

*I worked as a Process Engineer for AT&T, Lucent Technologies, and Agere Systems for 20 years.*

**TC: What is your educational background?**

*B.S., M.S. and MBA from Lehigh University*

**TC: What licenses do you have?**

*PE in Pennsylvania*

**TC: How long have you been in PSPE?**

*About a year*

**TC: With what other technical or professional societies are you affiliated?**

*None*

**TC: Tell us about your family.**

*My parents grew up in Frackville, PA and moved to Philadelphia after my father completed serving in the US Navy during WWII. I have two sons, one majoring in Information Management and Business at Florida Tech and my other son is a Biology major at Wake Forest University.*



**Bruce Rhoades, P.E.**

**TC: What are your hobbies?**

*Running, playing golf and playing the piano*

**TC: What is your favorite quote?**

*"People don't care how much you know until they know how much you care."*

**TC: What would be your choice for a fantasy profession?**

*Jazz piano player*

**TC: What is your most treasured possession?**

*My baby grand*

**TC: What or who inspired you to get into engineering?**

*My dad bought me my first telescope and then helped me as I built another.*

**TC: Name something you would like to learn to do during your lifetime.**

*Speak a foreign language*

Thanks Bruce for participating!!!

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## **Train in Vain?**

*The Economist, November 7, 2010*

CHRIS CHRISTIE, New Jersey's new-ish Republican governor, drew national attention last month for cancelling the partially federally funded ARC (Access to the Region's Core) tunnel project. The tunnel, which would have run under the Hudson River to Manhattan, would have eased train congestion in the current, century-old Hudson rail tunnel. Now the Garden State will lose the billions of dollars in federal money that were committed to the project; they'll be reallocated elsewhere.



But Mr. Christie isn't the only GOP chief executive cancelling federally funded high-speed rail projects. Last month, the *New York Times'* Michael Cooper pointed out that a number of Republican gubernatorial candidates were running against high-speed rail projects. Most of those candidates won. Scott Walker, the new governor in Wisconsin, John Kasich, the new governor in Ohio, and Rick Scott, the new governor in Florida, all criticized federally funded rail projects in their states. "Passenger rail is not in Ohio's future," Mr. Kasich told reporters shortly after winning Tuesday's election. "That train is dead." Mr. Walker has also promised to fulfill his campaign pledge to kill the proposed rail project in his state.

What is bad news for train supporters in Wisconsin, Ohio and New Jersey could be good news for commuters in California and the North-east. The \$810m from Wisconsin, \$400m from Ohio, and \$3 billion from New Jersey will come back to Washington and be awarded to other states instead. California was one state where the anti-train candidate, Republican Meg Whitman, didn't win. Some of the money could end up there, to help launch the Golden State's Los Angeles-to-San Francisco high-speed rail dream.

John Mica, a Republican from Florida who will run the House transportation committee starting in January, thinks that the Northeast corridor is the best target for high-speed rail money. Newly elected (or re-elected) Democratic governors in Connecticut, Massachusetts, New York and Maryland would presumably be happy to take the money. It will be interesting to see whether the Obama administration can convince the lame-duck Democratic Congress to reassign the money—or whether the GOP-run House will try to cancel the spending entirely next year.

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## Valley Forge Chapter Scholarship Program

By Lindsay Musselman, Chapter Director



The Valley Forge Chapter of PSPE is celebrating its 3<sup>rd</sup> year operating a scholarship program open to high school students who either (1) live in or (2) attend high school in Montgomery County and plan on pursuing an engineering degree at either Drexel University or Temple University.

Three awards are given: Drexel University is providing two five-year scholarships of \$5,000 per year (\$25,000 total), Temple University is providing one four-year scholarship of \$2,000 per year (\$8,000 total), and three cash awards (\$200 for each of 2 Drexel applicants and \$200 for Temple applicant) will be made by the Valley Forge Chapter.

The application includes test scores, transcript, short essay, and listing of activities. Applications were sent to guidance counselors for all Montgomery County high schools at the beginning of October. **Completed applications are due by January 10, 2011.**

All questions can be forwarded to Lindsay Musselman at 215-652-6649 ([lindsay\\_musselman@merck.com](mailto:lindsay_musselman@merck.com)) or Chad Camburn ([Camburn@bursich.com](mailto:Camburn@bursich.com)).

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## Mathcounts

By Karen Danko, Chapter Director

The Valley Forge and Bucks County Chapters of PSPE are once again hosting the MATHCOUNTS Chapter competition. Approximately 250 students from area middle schools will congregate at Upper Merion Area Middle School in King of Prussia on February 5, 2011 to compete. We are looking forward to another wonderful year and hope that anyone interested in volunteering or sponsoring the competition contact Karen Danko, P.E. at [yfcmathcounts@gmail.com](mailto:yfcmathcounts@gmail.com). We are in need of volunteers for both the morning and afternoon sessions. This is a great event for both the students and volunteers, so please consider donating a day of your time for this worthwhile cause!

## **Summer Internship Opportunities**

On behalf of the Delaware Valley Regional STEM Alliance ( DVRSA): Do you know a college undergraduate or graduate student who is majoring in science and engineering and is looking for a summer internship? If so, the Naval Research Enterprise Intern Program (NREIP) may be just what they are looking for! Applications for Naval Research Enterprise Intern Program (NREIP) will be accepted beginning October 15, 2010.

NREIP is an Office of Naval Research (ONR) sponsored program that encourages college students to experience a 10 week internship relevant to their science and engineering major. The program provides students' exposure to the everyday practice of engineering and research at DOD laboratories across the country. Students applying to the program can select from over a dozen Navy laboratories and centers, including the Naval Surface Warfare Center (or NAVSEA) in Philadelphia.

Students will receive a stipend for the 10 week internship, ranging from \$7,690 for undergraduate students to \$10,250 for graduate students. Payments are in three (3) installments.

Applicants must be of Junior, Senior, or Graduate student status by summer 2011 and must be enrolled at a 4 year U.S. accredited college/university. Applicants must be U.S. Citizens. To apply and to get more program details, students must go to [www.asee.org/nreip/](http://www.asee.org/nreip/). The application deadline is January 7, 2011 at 5:30 p.m. All transcripts must be submitted by January 14, 2011 at 5:30 p.m. If you have any further questions, please contact John Metzger at 215-897-1508.

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# 18<sup>th</sup> Annual Valley Forge Chapter Day at the Races

By Harve Hnatiuk

Congratulations to Jim Thompson, a first time player , who won our Handicapping Contest. Jim used the "Show" bet approach to total 33.00 points and easily win. It was a photo finish for second with Harve Hnatiuk (2nd) coming in at 19.80, Bob DiDomizio (3rd) at 19.50 and Kurt Leininger (4th) at 19.30. The remaining order of finish was Diane DiDomizio, Barb Nawn, Cyndee Hnatiuk and John Nawn. Thanks to everyone who participated!



"THE 18TH ANNUAL VALLEY FORGE "PSPE" CLASSIC"  
Starter Allowance / Purse - \$30,000

Peter E. Blum Thoroughbred LLC's  
Allen Iwinski, Trainer  
Roberto Alvarado, Jr., Rider  
6 Furlongs 1:12 1/5

**Magical Feeling**

parx  
racing

Yonake 2nd  
Liza Two 3rd  
December 5, 2010  
© Equi-Photo.com



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

**ANNUAL TREASURER'S REPORT**

June 1, 2009 through June 30, 2010

Account Balances (Wachovia):

	<u>Checking</u>	<u>Savings</u>	<u>CD</u>	<u>Total</u>
June 1, 2009	\$ 4555.52	\$ 6555.38	\$ 0.00*	\$ 11110.90
<b>June 30, 2010</b>	<b>\$ 6525.24</b>	<b>\$ 6290.24</b>	<b>\$ 0.00*</b>	<b>\$ 12815.48</b>

\*CD matured in February 2009 and entire amount (\$5206.46) was transferred to savings.

Comments

This was another successful year financially with the year-end balance being higher than when the year started. The Mathcounts Banquet was not held this year due to a scheduling conflict with the participating schools' spring breaks. Including the summer planning meeting, which the Chapter always pays for, the Chapter only ended up covering just over \$200 for the membership meetings. The Mathcounts fund formerly handled by Dick Mulford was liquidated and distributed to each chapter, for which we received \$318.71. Furthermore, the Chapter received an additional \$1611 which serves as the Mathcounts state grant money for 2011. The only Mathcounts expense the Chapter incurred was for the awards, which totaled \$577.50. Thus, the majority of the surplus from this fiscal year was a result of the large state grant the Chapter received, which will likely eventually be transferred to a separate designated Mathcounts bank account.

The Chapter scholarship program continued successfully as two future Drexel students were each awarded \$250 scholarships and one future Temple student was awarded a \$200 scholarship. The 2<sup>nd</sup> Annual VFC Scholarship Golf Outing raised \$752 for the scholarship fund. Additional fundraising activities raised another \$88 for a grand total of \$840. Thus, after distributing checks for \$700, we were able to add \$140 to our scholarship fund, which is being held in our savings account. Adding this to the previous scholarship fund balance of \$427, we now have \$567 to continue our scholarship program going forward.

Once again, we cut out our PR contributions with no PSPE radio ad this year. TPD did carry out the Compass printings/mailings for the Chapter but we still stayed well under budget in that area as we had budgeted \$500 for printing/postage/mailings and TPD was only reimbursed approximately \$230.

The Chapter must e-file with the IRS starting with tax year ending 2008, at least every three years, which Kurt L. will take care of this summer for the past three years.

Date: June 30, 2010

Respectfully submitted,

Michael Fischer, PE, VFC Treasurer



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

TO: Officers and Members of VFC-PSPE  
SUBJECT: Audit Committee Report for Fiscal Years 2008-09 & 2009-10

We, the undersigned, have reviewed the Valley Forge Chapter Treasurer's records for the above period and find the following:

- The last audit was done on July 8, 2008, for the two-year period of 6/1/06 to 5/31/08. As of 5/31/08, the following balances were verified:

Savings:	\$ 507.78
Checking:	\$ 4,085.04 (previously reported as \$3,885.04)*
Certificate of Deposit:	<u>\$ 5,167.18</u> (matured 6/22/08)
Total:	\$ 9,760.00 *

\*Revised to include two \$100 MC donation checks that never cleared

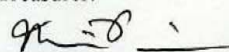
- The current audit for the biannual period of 6/1/08 to 5/31/10, was started on July 8, 2010, and completed on the date noted below. The following balances were verified:

	<u>To 5/31/10</u>	<u>To 6/30/10 *</u>
Checking:	\$ 7,859.24	\$ 6,525.24
Savings:	\$ 6,237.78	\$ 6,290.24
Certificate of Deposit:	<u>\$ 0.00</u>	<u>\$ 0.00</u>
Total:	\$14,097.02	\$12,815.48

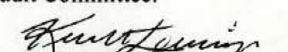
\*Included to correspond with Totals on final Ledger.

- We find the Treasurer's records to be in proper order, with the following notations.
  1. Refer to the Treasurer's Annual Report (attached) that discusses the increase in total account value. Most of the increase is from approximately \$2,000 funding for the Mathcounts (MC) program, which is now managed by each chapter (starting last year). Expenses for the annual golf outing, which did not clear until the 6/30 bank statement, are reflected in the above "To 6/30/10" balances. See the "Wachovia Checking Account Ledger" for details.
  2. During the past year (2009-10), several items intended for the VFC Scholarship fund were deposited directly to the savings account. The Audit Committee recommends that all future deposits be made to the checking account, with transfers to the savings account itemized on the Ledger. This will provide a clear record of all income and expense amounts, and also simplify calculation of annual gross receipts which is the value that must be reported to the IRS.
  3. We also recommend that the VFC Board decide how to best manage the MC funds, so they are kept separate from other income and expenses in the existing Wachovia checking and savings accounts. One possible approach is a separate savings account from which a transfer is made to reimburse the checking account for each MC expense check. A separate savings account that allows a few MC checks per month to be written is another possibility. A separate MC checking account is a third option. This separate MC account would not need to be with Wachovia.

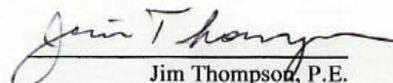
Treasurer:

  
\_\_\_\_\_  
Michael Fischer, P.E.

Audit Committee:

  
\_\_\_\_\_  
Kurt Leininger, P.E.

Date: July 16, 2010

  
\_\_\_\_\_  
Jim Thompson, P.E.



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

**BOARD OF DIRECTORS' MEETING MINUTES**

**Meeting**

- December 14, 2010
- TPD Office

**Those in Attendance:**

Kristin Norwood, P.E. (President)  
Kurt Leininger, P.E. (Vice President)  
Dan Humes, E.I.T. (Secretary)  
Tony Dougherty, P.E. (Director)  
Bruce Rhoades, P.E. (Director)  
Nate Zipay, E.I.T. (Director)  
Paul Dugan, P.E. (State Director)

Chad Camburn, P.E. (Pres.-Elect)  
Mike Fischer, P.E. (Treasurer) (via Telephone)  
~~Karen Danko, P.E. (Past President)~~  
Jim Thompson, P.E. (Director)  
Anthony Handley, E.I.T. (Director) (via Telephone)  
~~Lindsay Musselman, E.I.T. (Director)~~  
~~John Nawn. (SE Region PSPE VP)~~

**Call to Order** 6:15 pm

**Minutes from Previous Meeting**

- Unanimously Approved.

**Reports of Officers**

**President's Report:**

- Nothing to report.

**President-Elect's Report:**

- Chad informed the Board that internally in his company a question was asked by some of the surveyors and the question was forwarded to Mr. Thomas A. Blackburn, the Sr. in Charge at the Department of State. Mr. Blackburn responded to the question of what kind of a seal is the Authorized Version of Official Documents. After some discussion amongst the Board and Mr. Blackburn's response, it was determined that a signed, dated and crimped seal is the legitimate and legal form of engineering authorization. It was also determined that the Department of State is currently reviewing and potentially revising the current laws which may allow for the electronic seal to be accepted as a formal alternative. Chad is to forward the e-mail to the Board members for further review.

**Vice President's Report:**

- Nothing to Report.

**Secretary's Report:**

- Dan informed the Board of some e-mail problems he was having. The Board recommended contacting Jennifer Summers.

**Treasurer's Report:**

- Nothing to Report

**State Director's Report:**

Nothing to report.

**Past President:**

- Not Present.

**SE Regional PSPE VP:**

Not Present

**Director's Report's:**

- Nothing to Report.

**Committee Reports:**

- Communications
  - Compass: A double issue to incorporate October through December is to be sent out by January.
    - Pictures from Day at the Races to be incorporated..

- Membership meeting for January 2011 tentatively scheduled for January 25<sup>th</sup>. Topic is Incident at Morales, by Paul Dugan. Bruce will look into potential locations in the Lansdale area and Kristin to contact the Bucks and Chester County Chapters to see if they would be interested in joining. Announcement to follow.
- Webmaster: Mike stated that he recalls Karen requesting a Mathcounts page be added to the Website. Dan is to review and follow up with this topic and further discuss with Karen and Mike.
- Mathcounts:
  - No update / send out solicitation letters ASAP.
- Scholarship:
  - One application has been received to date. January is the deadline and guidance counselors have been notified. It was recommended that someone on the scholarship committee send out a reminder e-mail to the guidance counselors.
- Membership:
  - Randolph Cleaver requested to be added to the Valley Forge Chapter's mailing list. Kristin is to contact and welcome Mr. Cleaver.
- Programs:
  - January – Incident at Morales, tentatively scheduled for January 25<sup>th</sup>. Location to be determined. Paul is to submit the required forms to Frnak to make sure that the topic still holds NY and PA PDH approvals.
  - February –PennDOT Tour tentatively scheduled for February 22<sup>nd</sup> or 23<sup>rd</sup> in King of Prussia, Tony to coordinate.
  - Suggestions for year:
    - Sporting Event (Bus Trip), VVF Ground Infiltration Wells, Turnpike Projects, Cayuga Pipe Tour (Valley Forge/Bucks), PennDOT (Route 202), Helicopters-Boeing, Lockheed Martin, 4-H Clubs, Perkiomen Watershed Conservancy, U.S. electric power grid update, Wastewater “Class A” Biosolids Drying and Distribution, 4G Wireless and Dutchland.

**Old Business:**

- Golf Tournament – The golf tournament is to be scheduled with the Regional Meeting in September; a tentative date of September 21<sup>st</sup> was selected.
- 2011 National Engineer's Week / Banquet (Saturday, February 19, 2011) – Tony may attend this function if his schedule will allow.
- Future City 2011. Discussion was raised about the typical donations made for this competition. It was voted upon to eliminate this year's donation and use the money for the scholarship fund. The motion was brought by Kurt and seconded by Bruce, all were in favor.

**New Business:**

- Candidates for PSPE State Office – 2011 to 2012 – John Nawn
- NSPE Fellow Nomination – Nothing to report
- January State Board of Directors Meeting – January 15<sup>th</sup> in Bedford.

**Adjournment:** 7:30 pm

**Next meeting:** January 4<sup>th</sup>, 2011, 6 PM – Sly Fox, Royersford (tentative location).



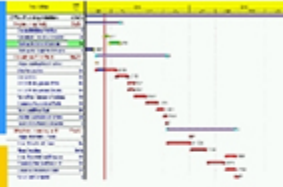
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Feasibility Studies and Cost Analysis



SCHEDULING

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Boilers / Cooling Towers  
Industrial Ventilation  
Materials Handling  
Bulk Storage and Transfer Systems  
Structural  
Equipment Foundations  
Structural Framing  
Industrial Buildings  
Electrical  
Power Wiring and Controls  
Short Circuit Studies  
Breaker Coordination



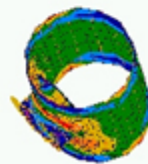
BULK HANDLING SYSTEMS



PIPING AND VESSELS

#### Construction Services

Construction Management  
Project and Field Engineering  
Owner's Representative



FINITE ELEMENT ANALYSIS

The ENC Group, LLC - Certified DBE  
50 Fir Drive, Richboro PA 18954  
Contact: Francis Stanton, Jr. PE  
(T) 215-497-1231 (F) 215-497-1232  
Email: [fjstanton@cs.com](mailto:fjstanton@cs.com)

## MILLENNIUM ENGINEERING, P.C.

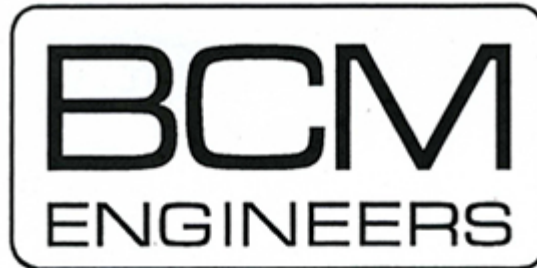
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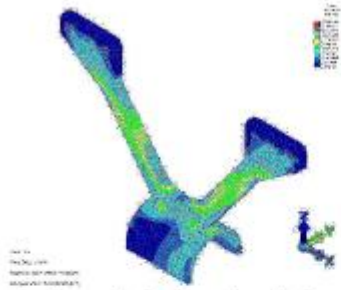
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