

# The Drawing Board

Reading Chapter, Pennsylvania Society of Professional Engineers



**A Publication of the PSPE Reading Chapter**

**November 2011**

## **Inside the Drawing Board**

Chapter Activities .....	Page 1
Message from the President .....	Page 1
Chapter Officers & Board Members .....	Page 2
MATHCOUNTS – Call for Volunteers! .....	Page 3
PSPE Reading Chapter Technology Initiative .....	Page 3
Air Products & Chemicals’ Clean Energy Operations Tour Summary .....	Page 4
Off The Board .....	Page 5
CEU Guidelines and Activity Log .....	Page 7

## **2011-2012 Chapter Activities**

- **December 2011** - Lafarge Seminar
- **January 2012** - Roundabout Seminar
- **February 2012** - MATHCOUNTS (February 4, 2012)  
- Bear Creek Resort Tour/Ski Outing
- **March 2012** - American Crane Tour
- **April 2012** - Sturgis Pretzels’ Tour
- **May 2012** - Manatawny Winery Tour
- **June 2012** - PSPE Reading Golf Outing (to benefit PSPE Scholarship)

## **MESSAGE FROM THE PRESIDENT**

*Prepared by: Tuan Duong, P.E.*

As I begin my second term as Chapter President, I would like to take the time to thank all of the Board Members and the entire membership for their support and assistance during the past year. The Board is working hard on planning a schedule of interesting seminars and tours for the Chapter Meetings.

The Chapter has already hit the ground running in September with Mr. Ronald J. Hunsicker, P.E., presenting, “Avoiding Water Penetration Through Masonry Veneers”. Mr. Hunsicker was very informative and kept everyone entertained.

---

**You can save the Chapter the cost of a stamp and copying charges by receiving your copy of the Drawing Board by e-mail. You need Adobe Acrobat to be able to view the Drawing Board. Just e-mail Frank Falzone, E.I.T. at [FFalzone@TrafficPD.com](mailto:FFalzone@TrafficPD.com) with your e-mail address to receive your e-mail copy.**

In October, a tour was held at Air Products and Chemicals, Inc. I would like to thank Mr. Michael Peters and Mr. David Tavianini for the presentations and for taking the group to see the solar farm and the hydrogen fueling station. Students and faculty members from the Wilson School District and Reading School Districts were invited to join the Chapter on this tour. We had over 35 people in attendance.

Thank you for your continued support in the organization, engineering profession and advancement of the licensed practice of engineering. If there is anything that I or any of the Board can do for you, please contact us per the information below.

Tuan Duong, P.E.

**2011-2012 PSPE - READING CHAPTER BOARD MEMBERS**

Tuan Duong, PE	President 2010-2012	Traffic Planning & Design	610.326.3100 (W)	<a href="mailto:tduong@trafficpd.com">tduong@trafficpd.com</a>
James Cinelli, PE	Vice-President 2010-2012	Liberty Environmental Inc	610.375.9301 (W)	<a href="mailto:jinelli@libertyenviro.com">jinelli@libertyenviro.com</a>
Eric Mountz, PE	Secretary 2008-2012	Traffic Planning & Design	610.326.3100 (W)	<a href="mailto:emountz@trafficpd.com">emountz@trafficpd.com</a>
Jason Shaner, PE	Treasurer 2009 - 2012	McCarthy Engineering Associates, Inc.	610.373.8001 (W)	<a href="mailto:jshaner@mccarthy-engineering.com">jshaner@mccarthy-engineering.com</a>
Michael Hartman, PE	State Director 2010-2012	dH Enterprises	484.663.3487 (W)	<a href="mailto:hartman_700@verizon.net">hartman_700@verizon.net</a>
Brian Boyer, PE	Board Member 2011 - 2013	Boyer Engineering LLC	484.824.2042 (W)	<a href="mailto:bboyer@boyerengineering.onmicrosoft.com">bboyer@boyerengineering.onmicrosoft.com</a>
Christopher Rickert, PE	Board Member 2011-2013	WorleyParsons	610.855.3620 (W)	<a href="mailto:christopher.rickert@worleyparsons.com">christopher.rickert@worleyparsons.com</a>
Frank Falzone, EIT	Board Member 2009 – 2012	Traffic Planning & Design	610.326.3100 (W)	<a href="mailto:ffalzone@trafficpd.com">ffalzone@trafficpd.com</a>
Denise Alston, PE	Board Member 2009 - 2012	Air Products and Chemicals, Inc.	610.481.1146 (W)	<a href="mailto:AlstonDR@airproducts.com">AlstonDR@airproducts.com</a>
John Weinheimer, PE	Board Member 2011-2014	RPA Associates	610.374.6144 (W)	<a href="mailto:jweinheimer@rpaengr.com">jweinheimer@rpaengr.com</a>
Jeff Euclide, PE	Board Member 2011-2014	Entech Engineering, Inc.	610.373.6667 (W)	<a href="mailto:JEFF@entecheng.com">JEFF@entecheng.com</a>
James McCarthy, PE	Past President 2010 - 2012	McCarthy Engineering Associates, Inc.	610.373.8001 (W)	<a href="mailto:jmccarthy@mccarthy-engineering.com">jmccarthy@mccarthy-engineering.com</a>
Karl Peterson, PE	Past President 2004 - 2012	---	717.445.6626 (H)	<a href="mailto:aftan@frontiernet.net">aftan@frontiernet.net</a>

# **MATHCOUNTS<sup>®</sup>**

---

## **CALL FOR VOLUNTEERS!!!**

Prepared by: Eric Mountz, P.E., PTOE  
[emountz@trafficpd.com](mailto:emountz@trafficpd.com)

This coming February middle school students in Berks County will have the opportunity to participate in MATHCOUNTS, a nationwide math enrichment, coaching and competition program. This local competition is made possible through the leadership of the Reading Chapter of the National Society of Professional Engineers. For those of you unfamiliar with the program, MATHCOUNTS promotes math achievement with all the challenge of a school sports event. Student Mathletes train individually and in teams. They have the opportunity to compete in local, state and national competitions. Prizes are awarded at all levels.

The 2012 Berks County Competition will be held on Saturday, February 4, 2012 at Bernardine Hall on the campus of Alvernia University, Reading, PA. The make-up date will be Saturday, February 18, 2012 at the same location. I will be organizing the local competition, and *I hope you will consider volunteering your time to help at the competition*. In order for the competition to run smoothly we need approximately 20 volunteers. The time commitment involved is from approximately 8:00 AM to 12:00 PM. Please respond directly to me ([emountz@trafficpd.com](mailto:emountz@trafficpd.com) or 610-326-3100) if you would like to volunteer to help this worthy program.

Additional information regarding the program and last year's results from the local completion are available under the MATHCOUNTS tab at [PSPE Reading Chapter](#).

---

## **Reading Chapter Technology Initiative:**

### **[PSPE Reading Chapter - WEBSITE LINK](#)**

<http://www.pspe.org/reading/reading.shtml>

### **[Linked In – Search Group Name “Society Of Professional Engineers – Reading Chapter”](#)**

<https://www.linkedin.com>

### **[Facebook – “PSPE READING CHAPTER”](#)**

<http://www.facebook.com/pages/pspe-reading-chapter/145338222237291?sk=wall>

## **DISTRIBUTION OF DRAWING BOARD VIA WEBSITE**

In the coming months, each subsequent release of the PSPE Reading Chapter drawing board will be initially available for viewing via the website link above. Then after a period of two (2) days the PDF copy of the Drawing Board will be emailed out to the membership. If you have any questions or will request hardcopy of the Drawing Board please contact Frank Falzone, E.I.T. at [ffalzone@trafficpd.com](mailto:ffalzone@trafficpd.com) or 610-326-3100.

# PSPE – Reading Chapter tours Air Products & Chemicals’ Clean Energy Operations

Prepared by: Denise R. Alston, P.E., REM



PSPE – Reading Chapter toured Air Products & Chemicals’ solar farm and hydrogen filling station for October’s PSPE sponsored activity. Air Products & Chemicals, Inc. headquartered in Trexlertown, PA operates a hydrogen bus for employees to get around campus and several cars to reduce air emissions and to promote the use of H<sub>2</sub> as a clean burning fuel to gasoline. In addition, the company installed and operates a solar farm to generate electricity for several of its buildings. PSPE toured the operations to learn about these clean energy technologies.

In addition, PSPE extended an invitation to the students and teachers of Wilson and Reading High Schools’ Project Lead the Way Program (engineering & technology program). Over 35 engineers, students, teachers and parents attended the tour. We had to divide into two groups due to the number of attendees.

David Taviani of Air Products shined a little light on solar energy by teaching us about the various types of solar panels and energy generation. After the presentation, Dave took us on a tour of the solar farm, which included walking behind demonstration panels to see how panels are connected by wires to operate a power source.



Next, we got the H<sub>2</sub> – how to – in manufacturing hydrogen and its uses for powering motor vehicles from Michael Peters of Air Products. He taught us how natural gas is converted into hydrogen, transported and used to operate vehicles. Afterwards we visited the H<sub>2</sub> filling station to see how H<sub>2</sub> is transferred from a tanker, into a filling station, and into a H<sub>2</sub> vehicle. We had an opportunity to look underneath the H<sub>2</sub> car’s hood and sit inside the car to see how it operates.

It was definitely a learning event for the students. Chris Trickett of Wilson stated “we had good conversations with the kids on the way home and are doing follow up activities relating to power generation/consumption and alternative energy today.”

Afterwards, PSPE provided dinner at Air Products to the attendees and presenters. Onto the next activity!!!!

## **OFF THE BOARD**

In an effort to get to know some of our members, we have a feature called Off the Board (OTB). Each month, OTB will interview a member of the chapter.

This month our paparazzi have tracked down Tuan Duong, P.E., PSPE Reading Chapter Board President.

Here are the results:

OTB: What is your name and engineering discipline?

**TD: Tuan Duong, P.E., Traffic Engineering**

OTB: Where do you or did you work?

**TD: Traffic Planning and Design, Inc. (TPD)**

OTB: How long have you worked there or been in business?

**TD: I have been working at Traffic Planning and Design, Inc. for 15 years.**

OTB: What do you do there?

**TD: As a Project Manager at TPD, I work mostly on Highway Occupancy Permit and ADA curb ramp design projects.**

OTB: Any work accomplishments you would like to speak of?

**TD: I've worked on or designed the driveways and roadway improvements for most of the new Wawas in southeastern PA over the last 13+ years.**

OTB: Are there other notable employers in your career?

**TD: No, Traffic Planning and Design, Inc. has been the only employer I've worked for since graduating from college.**

OTB: What is your educational background?

**TD: I have a BS in Civil Engineering from Widener University.**

OTB: What licenses do you have?

**TD: I'm a registered Professional Engineer in the state of Pennsylvania.**

OTB: What historical figure do you admire the most?

**TD: Genghis Khan**

OTB: Tell us about your family.

**TD: My wife Linh and I have been married for 9 years. We have two boys Andrew and Colin ages 8 and 6.**

OTB: What are your hobbies?

**TD: Playing golf and watching fooball.**

OTB: What is your favorite quote?

**TD: To do what ought to be done but would not have been done unless I did it, I thought to be my duty. – Robert Morrison**

OTB: What is your favorite equation?

**TD:  $A^2 + B^2 = C^2$**

OTB: What is your favorite book?

**TD: Any Dan Brown book.**

OTB: What cartoon character best describes you?

**TD: Jerry from Tom & Jerry.**

OTB: What trait do you most dislike in others?

**TD: Arrogance and not responding to phone calls or emails.**

OTB: Name something you'd like to learn to do during your lifetime.

**TD: Speak Mandarin**

OTB: What or who inspired you to get into engineering?

**TD: Ever since I could remember, I've always had a curiosity for how things worked.**

OTB: How long have you been a member of PSPE?

**TD: 6 years**

OTB: Any advice for other PSPE members?

**TD: Be active and take on a leadership role in the Chapter.**

# PENNSYLVANIA STATE BOARD OF PROFESSIONAL ENGINEERS, LAND SURVEYORS AND GEOLOGISTS



December 2010

[www.dos.state.pa.us](http://www.dos.state.pa.us)

## General Guidelines for Continuing Professional Competency

Pursuant to Section 4.5(f) of the Engineer, Land Surveyor and Geologist Registration Law (Act), it is necessary for each licensed professional engineer, land surveyor or geologist to maintain a log documenting the type of continuing professional competency activity claimed for professional development hours (PDH). The log must include the name of the sponsoring organization, the location and duration of the activity, the name(s) of the instructor(s) or speaker(s) and PDH earned for each activity. All licensees must maintain attendance verification records (kept in accordance with any requirements established by regulation) in support of any and all credits claimed for attended activities, should they be requested by the board office.

The board will audit licensees to verify compliance with the continuing professional competency requirements, following every renewal cycle, as may be required by regulation. The first audit will take place after the September 2011 renewal cycle. Licensees are not to submit copies of their log, attendance records, or other documentation unless they have received an audit notice from the board office.

If evidence of a licensee's compliance with the Continuing Professional Competency Requirements of Section 4.6 of the act is requested by the board via an audit notice, it will be necessary to submit to the board the fully completed continuing professional competency activity log, copies of attendance verification records in the form of completion certificates or other documents supporting evidence of attendance, and, if any activities have been completed in accordance with section 4.6(o)(1), 4.6(o)(6), 4.6(o)(8) and/or 4.6(o)(7) of the act, the following additional documentation is required to support claimed PDH.

**4.6(o)(1): College course relevant to professional practice:** Submit a sealed transcript, from the college or university, listing the course title, course number and credit (number of semester hours or quarter hours) earned.

**4.6(o)(6): Teaching, presenting or instructing any of the activities listed in 4.5(c)(1), 4.5(c)(2), 4.5(c)(3), 4.5(c)(4) of the act:** Submit copies of a letter from the activity sponsor/provider clearly indicating you were the individual responsible for teaching, presenting or instructing the activity.

**4.6(o)(8): Authoring a published paper, article or book relevant to professional practice:** Submit copies of the cover, title page, publication date page and a synopsis of the topic.

**4.6(o)(7): Obtaining a patent relevant to professional practice:** Submit a copy of the patent grant letter.

Please be advised that, unless evidence of compliance with the board's continuing competency requirements has been specifically requested by the board office, a licensee's documentation of completed continuing professional competency activities will not be reviewed by the board or the board office for the purpose of advising a licensee whether they have fulfilled their continuing professional competency requirements, or if a specific course or activity is considered acceptable. Additionally, the board does not and will not maintain an ongoing record of a licensee's completed activities.

For more information, visit the board's [website](#) or download the board's [Continuing Professional Competency Activity Log](#).

### Other News:

- [Disciplinary Actions](#)

### Governor's Newsletter

[Sign up now](#) to receive the e-newsletter from Governor Rendell on important issues facing Pennsylvania.

[Contact Us](#)

[Report Unethical Activity](#)

[Renew Your License](#)

[Meet the Board](#)

PENNSYLVANIA STATE REGISTRATION BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS AND GEOLOGISTS

# Continuing Professional Competency Activity Log

Your Full Name	Complete License Number (letters and all numbers including zero)

All activities must be relevant to professional practice 1 PDH = 50 minutes of instruction or presentation

**Continuing Professional Competency Activities** CE courses, correspondence, televised, videotaped, short courses, tutorials, seminars, employer-sponsored courses, workshops or conferences relevant to professional practice

Date(s) of Course	Title of Course	Sponsor/Provider Name	Location	Instructor	Duration	PDH	Taught?	
							Yes	No





**TRAFFIC PLANNING AND DESIGN, INC.**

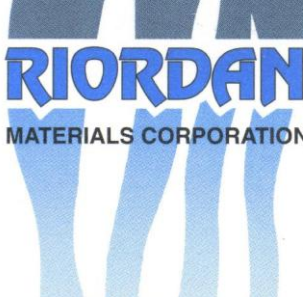
RANKED TOP 15 IN PA

**BEST PLACES to work in PA**

RANKED TOP 25 CE FIRM IN U.S.

WWW.TRAFFICPD.COM  
610.326.3100

POTTSTOWN, PA LEHIGH VALLEY, PA HARRISBURG, PA CAMDEN, NJ



**RIORDAN**  
MATERIALS CORPORATION

WATER AND WASTEWATER TREATMENT EQUIPMENT

**MAIN OFFICE**  
6198 BUTLER PIKE SUITE 150  
BLUE BELL, PA 19422-2600  
PHONE: 215.628.9936  
FAX: 215.628.9936  
WEB: www.riordanmat.com  
EMAIL: riordan@riordanmat.com

OTHER OFFICES IN READING, ALLENTOWN, AND CROFTON, MD

**PA REPRESENTATIVES:**  
Art Auchenbach III, P.E. Carl Janson  
Bob Smith, P.E. Matt Seng, P.E.



**Liberty Environmental, Inc.**

*Providing Innovative Solutions to Complex Environmental Problems.*

50 N. 5th Street, 5th Floor • Reading, PA 19601  
Phone (610) 375-9301 • Fax (610) 375-9302  
www.libertyenviro.com

- ◆ Air Quality Permitting and Planning
- ◆ Pollution Control Equipment Design
- ◆ Water and Wastewater Treatment
- ◆ Site Assessments and Remediation
- ◆ Wetlands and Ecological Studies



Excellence doesn't just happen.  
It's carefully engineered.

**McCarthy Engineering**

1121 Snyder Rd • West Lawn  
Phone: 610.373.8001  
www.McCarthy-Engineering.com 1.866.496.8744 (toll-free)

Advertising is available in the Drawing Board and on the Chapter web site for \$50.00 per year. If a company wants to advertise and also place positions available on the web site, then the cost is \$100 per year. Historically, this was done by sending out invoices to past advertisers. The process to advertise has been changed and now in order to advertise you should send a check in the appropriate amount payable to “Reading Chapter PSPE” to Reading Chapter PSPE c/o McCarthy Engineering, 1121 Snyder Road, West Lawn, PA 19609. Along with your payment a jpeg file or similar file should be included of your advertisement.

***Pennsylvania Society of Professional Engineers***

Attn: Frank G. Falzone, Jr., E.I.T.  
2500 E. High Street, Suite 650  
Pottstown, PA 19464  
Address Correction Requested