

# The Drawing Board

*Reading Chapter, Pennsylvania Society of Professional Engineers*



**A Publication of the PSPE Reading Chapter** **December 2013**

## Inside the Drawing Board

Chapter Activities .....	Page 1
Message from the President .....	Page 2
Chapter Officers & Board Members .....	Page 3
Exeter Township Biosolids Drying Facility Tour Summary .....	Page 4
Engineering Scholarship Application .....	Page 5
PSPE Reading Chapter Technology Initiative .....	Page 8

## 2014 Chapter Activities

- **January 2014** - **3-D Laser Scanning Presentation, January 15, 2014**
- **February 2014** - **Pipeline Rehabilitation Presentation**
- **March 2014** - **Brentwood Industries Tour**
- **April 2014** - **Cambridge-Lee Industries Tour**
- **May 2014** - **PSU Berks Engineering School Tour**

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 Jasen Book, E.I.T. at [jbook@libertyenviro.com](mailto:jbook@libertyenviro.com) with your e-mail address to receive your e-mail copy.

**MESSAGE FROM THE PRESIDENT**

*Prepared by: James P. Cinelli, P.E., BCEE*

I'd like to wish everyone a happy and safe holiday season. The Reading Chapter had some great events in 2013. Despite the rainout, the rescheduled golf outing at Hickory Valley was a great time and raised about \$4,000 for our scholarship and Mathcounts. Many thanks to all of our sponsors and attendees. It was also enjoyable once again joining with the Valley Forge Chapter, and we look forward to joining forces with them again to keep growing the tournament. Most importantly, I'd like to thank Frank Falzone, who put in many hours to make the tournament a success. As the spring approaches, we will be reaching out to our membership to attend or sponsor the 2014 tournament, and we are always looking for volunteers to help out with the planning. Please contact me or Frank if you are interested.

We also had some great tours and presentations this fall, including a tour of the Exeter Township sludge burner in September, an ethics presentation in October on the Citicorp Building in New York City, and a joint presentation with the Valley Forge Chapter in November on Multi-Well Gravity Drain Systems. We've got some equally impressive topics coming up this winter and spring, and I hope that many of you can attend. The topics will include 3-D Laser Scanning, Pipeline Rehabilitation, a tour of the Brentwood Industries manufacturing facility, a tour of the new Cambridge-Lee copper tube manufacturing facility, and a tour of the Penn State Berks Campus' new engineering building. The Brentwood Industries tour will be a joint event with ASME. These meetings are an excellent way to network with your peers, and of course provide valuable continuing education credits.

This year's Mathcounts competition is right around the corner! It will be held on February 1<sup>st</sup>, and is at a new location this year – Penn State Berks Campus. We again have a good number of teams that are registered for the competition. We are always in need of volunteers, so if you can spare a few hours on a Saturday morning to help a good cause, please contact me or our Mathcounts chairman Eric Mountz.

As part of our continuing efforts to reach out to high school and college students pursuing careers in engineering, I met with the junior year mechanical engineering students at Penn State Berks Campus last month, to introduce them to PSPE and to provide information on student chapter formation. We hope that after the new four-year program increases its enrollment, there will be enough interested students to form a student chapter, as has been done at many college campuses across the state.

I hope everyone has a prosperous year in 2014, and I hope to see many of you at the upcoming events. If there is anything that I or any of the Board can do for you, please don't hesitate to contact us.



James P. Cinelli, P.E., BCEE

**2013-2014 PSPE - READING CHAPTER BOARD MEMBERS**

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## Exeter Township Biosolids Drying Facility Tour

On September 23, 2013, Plant Assistant Superintendent H. David Miller and Biosolids Project Team Member Dale T. Miller led a tour of the new Exeter Township sludge dewatering and biosolids drying facility. The state-of-the-art facility opened in May 2012, and allows the township and surrounding municipalities to manage biosolids volume while producing a usable byproduct. The tour presenters emphasized that the facility produces Class A biosolids product that are at least 92% solids, and therefore significantly reduces the disposal fees that Exeter Township incurred prior to plant operation. The integral parts of the dewatering process include two centrifuges that chemically and mechanically separate solids and liquids, and the biosolids dryer, which circulates heated oil to evaporate moisture from the sludge. The dryer cycle takes approximately three hours, and up to 72 tons of sludge can be treated per day.



Biosolids Dryer

The dried product is collected into surge bins and a storage silo until it can be transported off-site as fertilizer for farm fields. Those attending the presentation observed first-hand how one of the only sludge drying operations of this type in Pennsylvania has dramatically reduced both solids disposal costs for the municipality and the volume of waste material that needs to be landfilled.



**Pennsylvania Society of Professional Engineers,  
Reading Chapter**

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**ENGINEERING  
SCHOLARSHIP  
APPLICATION  
2014 - 2015**

**Please provide the following information:**

Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Phone Number \_\_\_\_\_ Date of Birth \_\_\_\_\_ Gender \_\_\_\_\_

Soc. Sec. or Student ID No. \_\_\_\_\_ E-mail Address \_\_\_\_\_

College/University Name \_\_\_\_\_

College/University Address \_\_\_\_\_

Engineering Study Start Date \_\_\_\_\_

Major \_\_\_\_\_

CUM (Most Recently Completed Semester) \_\_\_\_\_

Date Completed \_\_\_\_\_

College or University Contact Name and Department \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_

Anticipated Date of Graduation \_\_\_\_\_

U.S. Citizen  Yes  No

Berks County Resident  Yes  No

Enrollment Status  Junior  Senior

Will you be participating in an internship program in either the fall 2012 or spring 2013 semesters?

Yes  No

Father's Name \_\_\_\_\_

Address \_\_\_\_\_

Home Phone \_\_\_\_\_

Occupation \_\_\_\_\_ Employer \_\_\_\_\_

Mother's Name \_\_\_\_\_

Address \_\_\_\_\_

Home Phone \_\_\_\_\_

Occupation \_\_\_\_\_ Employer \_\_\_\_\_



**Pennsylvania Society of Professional Engineers,  
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**ENGINEERING  
SCHOLARSHIP  
APPLICATION  
2014 - 2015**

Sibling Names and Ages (if any): \_\_\_\_\_  
\_\_\_\_\_

Employment Record \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Where did you hear about the PSPE Reading Chapter's Scholarship Program?  
\_\_\_\_\_  
\_\_\_\_\_

Attach a written description of your accomplishments including achievements, awards, professional memberships, college activities, community service and extracurricular activities.

The engineering program enrolled in at your college or university attending must be ABET accredited.

Applicant Signature \_\_\_\_\_ Date \_\_\_\_\_

**APPLICANT'S CERTIFICATON AND PERMISSION TO RELEASE INFORMATION**

I hereby certify that all information submitted on this application is true and accurate to the best of my knowledge. I understand that submitting nonfactual information will automatically disqualify me from consideration for this scholarship.

By submitting this application, I authorize my College or University contact or designee to make available to the PSPE Reading Chapter Scholarship Chairperson information concerning my academic records.

Applicant Signature \_\_\_\_\_ Date \_\_\_\_\_

**CONTACT OR DESIGNEE'S CERTIFICATION**

I hereby certify that the academic information as submitted in conjunction with this application is correct, and that the applicant meets all eligibility requirements as outlined herein.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Printed Name \_\_\_\_\_

School Official Title \_\_\_\_\_

Telephone Number \_\_\_\_\_



**Pennsylvania Society of Professional Engineers,  
Reading Chapter**

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**ENGINEERING  
SCHOLARSHIP  
APPLICATION  
2014 - 2015**

The Reading Chapter of the Pennsylvania Society of Professional Engineers (PSPE) will be awarding a \$2,500 scholarship. A check for \$1,250 will be issued to the recipient's educational institution to be applied towards their tuition/room and board for each of the fall 2014 and spring 2015 semesters.

The Scholarship is a one-time only grant to be provided to an undergraduate engineering student who will be enrolled in the first semester of their second last (junior) or final (senior) year in the fall of 2014, in an ABET accredited engineering program. This award will be based on academic success, character, personal merit, commitment plus school and community involvements.

**Instructions and information for students completing the scholarship application:**

1. Deadline for receipt of Application and supporting documentation is May 31, 2014
2. For application, see Reading Chapter website: <http://www.pspe.org/reading/reading.shtml>
3. Return completed application to the Scholarship Chairperson listed below:

**Jasen Book**  
**50 North 5<sup>th</sup> Street**  
**5<sup>th</sup> Floor**  
**Reading, PA 19601**  
**Phone: 717-517-5000**  
**E-mail: [jbook@libertyenviro.com](mailto:jbook@libertyenviro.com)**

4. This scholarship is not applicable towards a semester during which the student completes an internship and does not pay tuition.

**Applicant Requirements:**

- Resident of Berks County, PA
- Maintain a minimum 3.0 GPA
- Enrolled in an undergraduate engineering program at an ABET accredited school
- Provide a certified copy of your transcript containing grades up to and including the most recently completed semester
- Provide a copy of your fall 2014 class registration schedule; applicant must be registered for a minimum of 10 credit hours/semester
- Submit a written description of your accomplishments including achievements, awards, professional memberships, college activities, community service and extracurricular activities plus employment details/summary
- Submit two (2) letters of recommendation from individuals with direct knowledge of your character, abilities and potential
- It is recommended that the application and supporting materials be submitted as early as possible. Multiple submittals are acceptable, including transcripts. It is recommended that the application and supporting materials be submitted as early as possible. Multiple submittals are acceptable, including transcripts

## **Reading Chapter Technology Initiative**

### **PSPE Reading Chapter – Email Address**

[PSPEReading@gmail.com](mailto:PSPEReading@gmail.com)

### **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 Jasen Book, E.I.T., LEED AP at [jbook@libertyenviro.com](mailto:jbook@libertyenviro.com) or 717-517-5000.

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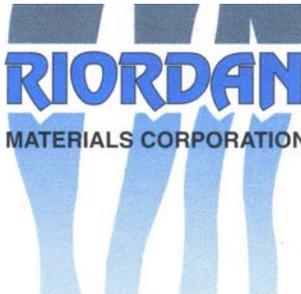
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Bob Smith, P.E. Matt Seng, P.E.

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***Pennsylvania Society of Professional Engineers***

Attn: Jasen Book, E.I.T., LEED AP  
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Address Correction Requested